Exxon Valdez Oil Spill
State/Federal Natural Resource Damage Assessment
Final Report

COMPREHENSIVE ASSESSMENT OF COASTAL HABITAT

COASTAL HABITAT STUDY NUMBER 1A
FINAL REPORT

VOLUME IV

APPENDIX C
Part 5

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Table C-5.1. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. May 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Algal Diversity Index (a)								Algal Taxa Richness (b)								Total Algae							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.05	0.03	12	0.03	0.02	-	+	0.469	12	1.33	0.28	12	0.67	0.22	-	-	0.079	12	33.24	9.80	12	11.47	7.48	-	+	0.050
453C/453	1	12	0.05	0.02	12	0.19	0.06	-	-	0.054	12	1.75	0.37	12	1.58	0.42	-	+	0.768	12	49.27	9.31	12	16.58	4.70	-	+	0.009
601C/601	1	12	0.02	0.02	12	0.09	0.04	-	-	0.180	12	0.58	0.19	12	0.92	0.38	-	-	0.441	12	9.18	4.40	12	7.19	3.99	-	+	0.710
598C/598	1	12	0.01	0.01	12	0.00	0.00	-	+	0.339	12	0.92	0.15	12	0.08	0.08	-	+	0.000	12	6.06	2.48	12	0.32	0.32	-	+	0.002
1522C/1522	1	12	0.00	0.00	12	0.17	0.05	-	-	0.008	12	0.58	0.15	12	2.00	0.44	-	-	0.009	12	28.76	10.52	12	34.09	10.79	-	-	0.531
Habitat Means			0.03	0.02		0.09	0.03		-			1.03	0.23		1.05	0.31		+			25.32	7.30		13.94	5.46		-	
Fisher's		Power	---		Power-50%		---	P-value		0.008	Power	---		Power-50%		---	P-value		0.001xy	Power	---		Power-50%		---	P-value		0.000
Stouffer's		Power	0.856		Power-50%		0.483	P-value		0.149	Power	---		Power-50%		---	P-value		0.003	Power	---		Power-50%		---	P-value		0.000
4825C/1424	2	11	0.31	0.06	12	0.24	0.05	-	+	0.403	11	2.82	0.40	12	2.50	0.40	-	+	0.580	11	56.71	9.08	12	35.32	9.40	-	+	0.137
453C/453	2	12	0.29	0.06	12	0.25	0.06	-	+	0.665	12	3.33	0.57	12	2.67	0.57	-	+	0.416	12	60.74	8.32	12	27.62	7.85	-	+	0.009
601C/601	2	12	0.20	0.05	12	0.19	0.06	-	+	0.889	12	2.33	0.38	12	1.83	0.44	-	+	0.398	12	40.43	8.69	12	30.32	10.34	-	+	0.406
598C/598	2	12	0.18	0.06	12	0.04	0.02	-	+	0.040	12	1.75	0.43	12	1.08	0.29	-	+	0.210	12	12.09	4.03	12	34.59	10.49	-	-	0.124
1522C/1522	2	11	0.17	0.04	10	0.28	0.07	-	-	0.184	11	2.36	0.43	10	3.60	0.70	-	-	0.142	11	55.81	8.97	10	78.01	7.51	-	-	0.079
Habitat Means			0.23	0.05		0.20	0.05		+			2.52	0.44		2.34	0.48		+			45.14	7.82		41.16	9.12		+	
Fisher's		Power	0.366		Power-50%		1.000	P-value		0.130	Power	0.260		Power-50%		1.000	P-value		0.197	Power	---		Power-50%		---	P-value		0.034x
Stouffer's		Power	---		Power-50%		---	P-value		0.045	Power	---		Power-50%		---	P-value		0.085	Power	0.281		Power-50%		0.932	P-value		0.422
4825C/1424	3	8	0.60	0.03	12	0.59	0.04	-	+	0.861	8	6.13	0.52	12	6.42	0.61	-	-	0.738	8	95.33	1.93	12	96.57	1.73	-	-	0.441
453C/453	3	9	0.39	0.06	10	0.27	0.09	-	+	0.325	9	5.00	0.78	10	3.10	0.90	-	+	0.133	9	90.56	3.84	10	38.76	13.35	-	-	0.005
601C/601	3	9	0.59	0.05	10	0.30	0.04	-	+	0.000	9	5.33	0.50	10	2.90	0.31	-	+	0.001	9	72.64	7.03	10	71.51	11.49	-	-	0.845
598C/598	3	11	0.50	0.06	12	0.42	0.06	-	+	0.344	11	5.00	0.59	12	4.08	0.57	-	+	0.276	11	72.63	7.28	12	78.45	8.38	-	-	0.415
1522C/1522	3	11	0.41	0.05	6	0.56	0.05	-	-	0.097	11	3.82	0.44	6	6.33	0.92	-	-	0.013	11	64.09	7.82	6	87.30	7.61	-	-	0.032
Habitat Means			0.50	0.05		0.43	0.06		+			5.06	0.57		4.57	0.66		+			79.04	5.56		74.54	8.52		-	
Fisher's		Power	---		Power-50%		---	P-value		0.004x	Power	---		Power-50%		---	P-value		0.003x	Power	0.057		Power-50%		1.000	P-value		0.114xy
Stouffer's		Power	---		Power-50%		---	P-value		0.040	Power	---		Power-50%		---	P-value		0.030	Power	0.000		Power-50%		1.000	P-value		0.637

(a) Modified Shannon Index.
(b) Taxa richness calculations are explained in the methods.

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Invertebrates								Rock								Perennials (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.52	0.36	12	13.34	6.03	-	-	0.012	12	66.27	9.77	12	75.23	9.41	-	-	0.449	12	31.58	9.34	12	8.23	7.01	-	+	0.025
453C/453	1	12	3.87	1.62	12	0.83	0.64	-	+	0.035	12	46.88	9.62	12	82.20	4.95	-	-	0.008	12	47.82	8.90	12	9.28	2.89	-	+	0.001
601C/601	1	12	7.09	2.80	12	4.07	2.32	-	+	0.422	12	83.56	6.22	12	88.34	5.82	-	-	0.328	12	6.05	2.80	12	5.01	2.72	-	+	0.829
598C/598	1	12	3.65	1.76	12	5.53	1.57	-	-	0.198	12	90.23	2.80	12	94.17	1.57	-	-	0.332	12	4.07	2.66	12	0.32	0.32	-	+	0.179
1522C/1522	1	12	17.71	8.54	12	9.31	3.08	-	+	0.647	12	53.55	10.00	12	56.53	11.24	-	-	0.862	12	28.76	10.52	12	27.42	8.84	-	+	0.868
Habitat Means			6.58	3.02		6.60	2.72		+			68.12	7.68		79.28	6.60		-			23.68	6.84		10.04	4.34		+	
Fisher's		Power	0.264		Power-50%		0.919	P-value		0.188xy	Power	---		Power-50%		---	P-value		0.011	Power	---		Power-50%		---	P-value		0.000
Stouffer's		Power	0.257		Power-50%		0.891	P-value		0.479	Power	---		Power-50%		---	P-value		0.006	Power	---		Power-50%		---	P-value		0.001
4825C/1424	2	11	3.64	2.27	12	10.01	4.01	-	-	0.188	11	39.67	9.01	12	54.49	10.60	-	-	0.363	11	28.08	5.30	12	18.66	6.96	-	+	0.184
453C/453	2	12	4.38	1.74	12	1.68	0.76	-	+	0.157	12	33.76	8.53	12	70.22	7.83	-	-	0.005	12	52.51	8.16	12	21.88	6.88	-	+	0.014
601C/601	2	12	11.37	4.50	12	11.37	2.59	-	o	0.484	12	48.24	5.71	12	58.34	9.75	-	-	0.436	12	31.78	8.43	12	12.08	4.50	-	+	0.040
598C/598	2	12	20.84	4.38	12	13.23	3.64	-	+	0.118	12	66.68	5.84	12	51.05	9.38	-	+	0.245	12	8.34	3.01	12	32.82	10.13	-	-	0.075
1522C/1522	2	11	7.62	2.14	10	4.01	1.37	-	+	0.275	11	36.61	7.53	10	18.00	6.90	-	+	0.070	11	44.44	7.41	10	34.51	10.74	-	+	0.497
Habitat Means			9.56	3.00		8.06	2.48		-			45.00	7.30		50.42	8.90		-			33.02	6.46		24.00	7.84		+	
Fisher's		Power	0.280		Power-50%		0.935	P-value		0.116	Power	---		Power-50%		---	P-value		0.040x	Power	---		Power-50%		---	P-value		0.005x
Stouffer's		Power	---		Power-50%		---	P-value		0.032	Power	0.139		Power-50%		0.947	P-value		0.296	Power	0.747		Power-50%		0.924	P-value		0.236
4825C/1424	3	8	0.00	0.00	12	1.05	0.94	-	-	0.220	8	4.54	1.98	12	2.41	1.23	-	-	0.367	8	32.36	6.92	12	43.73	7.24	-	-	0.429
453C/453	3	9	1.53	1.10	10	3.63	3.63	-	-	0.986	9	7.66	3.71	10	57.65	12.96	-	-	0.004	9	60.97	9.71	10	25.89	10.04	-	+	0.027
601C/601	3	9	2.64	1.33	10	6.14	3.38	-	-	0.464	9	24.46	6.73	10	22.26	10.83	-	+	0.535	9	33.50	5.62	10	34.76	10.61	-	-	0.841
598C/598	3	11	3.19	1.32	12	1.36	0.89	-	+	0.125	11	20.58	5.77	12	20.11	7.70	-	+	0.655	11	34.67	6.40	12	30.33	5.74	-	+	0.558
1522C/1522	3	11	2.74	0.84	6	0.42	0.42	-	+	0.015	11	24.22	6.15	6	12.10	7.22	-	+	0.112	11	35.30	6.97	6	32.30	9.23	-	+	0.807
Habitat Means			2.00	0.90		2.52	1.84		-			16.30	4.88		22.92	7.98		+			39.38	7.12		33.40	8.54		-	
Fisher's		Power	0.012		Power-50%		0.800	P-value		0.542x	Power	0.247		Power-50%		0.969	P-value		0.171xy	Power	0.508		Power-50%		0.994	P-value		0.150
Stouffer's		Power	0.002		Power-50%		0.852	P-value		0.912	Power	0.000		Power-50%		0.941	P-value		0.714	Power	---		Power-50%		---	P-value		0.064

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.1. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. May 1991. Undisturbed. (Continued.)

		Annuals (A)								Ephemerals (AE)															
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	1.68	0.98	12	3.23	2.30	-	-	0.795	12	1.36	0.99	12	3.23	2.30	-	-	0.526									
453C/453	1	12	1.47	0.86	12	7.30	2.35	-	-	0.070	12	0.21	0.21	12	6.98	2.25	-	-	0.012									
601C/601	1	12	3.13	2.37	12	2.19	1.36	-	+	0.913	12	2.29	2.29	12	1.46	1.25	-	+	0.995									
598C/598	1	12	1.99	0.73	12	0.00	0.00	-	+	0.006	12	0.00	0.00	12	0.00	0.00	-	o	1.000									
1522C/1522	1	12	0.00	0.00	12	6.68	4.02	-	-	0.020	12	0.00	0.00	12	5.74	3.97	-	-	0.043									
Habitat Means			1.66	1.00		3.88	2.02		-			0.78	0.70		3.48	1.98		-									
Fisher's		Power	---		Power-50%		---	P-value		0.040x	Power	---		Power-50%		---	P-value		0.010	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.412		Power-50%		0.863	P-value		0.758	Power	---		Power-50%		---	P-value		0.033	Power	---		Power-50%		---	P-value		
4825C/1424	2	11	28.64	7.48	12	16.68	7.41	-	+	0.242	11	26.48	7.43	12	15.94	7.43	-	+	0.349									
453C/453	2	12	8.24	3.68	12	5.74	2.87	-	-	0.546	12	2.83	1.42	12	4.49	2.45	-	+	0.520									
601C/601	2	12	8.65	4.32	12	18.24	10.32	-	-	0.475	12	7.62	4.14	12	18.24	10.32	-	-	0.395									
598C/598	2	12	3.76	1.42	12	1.78	0.98	-	+	0.292	12	1.98	0.74	12	0.83	0.47	-	+	0.207									
1522C/1522	2	11	11.37	4.32	10	43.51	12.08	-	-	0.046	11	10.70	4.31	10	41.39	11.42	-	-	0.044									
Habitat Means			12.14	4.24		17.18	6.74		-			9.92	3.58		16.16	6.42		+									
Fisher's		Power	0.163		Power-50%		0.868	P-value		0.338xy	Power	0.156		Power-50%		0.916	P-value		0.166	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.082		Power-50%		0.816	P-value		0.235	Power	0.137		Power-50%		0.868	P-value		0.561	Power	---		Power-50%		---	P-value		
4825C/1424	3	8	62.99	7.80	12	52.86	7.31	-	-	0.479	8	58.14	7.51	12	40.64	5.73	-	-	0.079									
453C/453	3	9	29.60	7.09	10	12.88	7.29	-	+	0.044	9	23.33	7.34	10	9.01	5.29	-	+	0.095									
601C/601	3	9	39.18	7.80	10	36.76	11.26	-	+	0.863	9	33.48	6.54	10	32.89	11.51	-	+	0.719									
598C/598	3	11	37.95	6.23	12	48.14	7.10	-	-	0.395	11	29.23	5.89	12	43.88	6.62	-	-	0.177									
1522C/1522	3	11	28.82	5.91	6	55.02	7.40	-	-	0.020	11	23.46	5.71	6	45.85	9.48	-	-	0.053									
Habitat Means			39.72	6.96		41.14	8.08		+			33.52	6.58		34.46	7.72		+									
Fisher's		Power	0.317		Power-50%		0.936	P-value		0.244xy	Power	0.213		Power-50%		0.944	P-value		0.137xy	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.278		Power-50%		0.924	P-value		0.474	Power	0.147		Power-50%		0.904	P-value		0.594	Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.2. Algal Percent Cover. Chlorophyta. Prince William Sound. Sheltered Rocky. May 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group: Bladed Greens								Bladed Greens (AE) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.11	0.11	12	2.82	2.30	-	-	0.270	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	1	12	0.21	0.21	12	6.57	2.20	-	-	0.013	12	0.21	0.21	12	6.57	2.20	-	-	0.013	12	0.21	0.21	12	6.57	2.20	-	-	0.013
601C/601	1	12	2.29	2.29	12	1.25	1.25	-	+	0.823	12	2.29	2.29	12	0.00	0.00	-	+	0.339	12	2.29	2.29	12	0.00	0.00	-	+	0.339
598C/598	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.00	0.00	12	5.11	3.88	-	-	0.056	12	0.00	0.00	12	5.11	3.88	-	-	0.056	12	0.00	0.00	12	5.11	3.88	-	-	0.056
Habitat Means			0.52	0.52		3.16	1.94		-			0.50	0.50		2.34	1.22		-			0.50	0.50		2.34	1.22		-	
Fisher's		Power	---		Power-50%		---	P-value	0.009		Power	---		Power-50%		---	P-value	0.026		Power	---		Power-50%		---	P-value	0.026	
Stouffer's		Power	---		Power-50%		---	P-value	0.035		Power	---		Power-50%		---	P-value	0.068		Power	---		Power-50%		---	P-value	0.068	
4825C/1424	2	11	4.32	2.48	12	1.36	0.89	-	+	0.409	11	4.09	2.44	12	0.63	0.42	-	+	0.286	11	4.09	2.44	12	0.63	0.42	-	+	0.286
453C/453	2	12	1.57	0.90	12	4.08	2.06	-	-	0.224	12	1.37	0.76	12	3.55	1.90	-	-	0.315	12	1.37	0.76	12	3.55	1.90	-	-	0.315
601C/601	2	12	3.66	1.45	12	3.76	2.58	-	-	0.684	12	3.66	1.45	12	3.76	2.58	-	-	0.684	12	3.66	1.45	12	3.76	2.58	-	-	0.684
598C/598	2	12	1.05	0.63	12	0.21	0.21	-	+	0.246	12	1.05	0.63	12	0.21	0.21	-	+	0.246	12	1.05	0.63	12	0.21	0.21	-	+	0.246
1522C/1522	2	11	4.67	2.44	10	11.26	5.31	-	-	0.324	11	4.45	2.47	10	10.38	5.35	-	-	0.397	11	4.45	2.47	10	10.38	5.35	-	-	0.397
Habitat Means			3.08	1.58		4.16	2.22		-			2.96	1.56		3.72	2.10		-			2.96	1.56		3.72	2.10		-	
Fisher's		Power	0.071		Power-50%		0.947	P-value	0.366		Power	0.040		Power-50%		0.961	P-value	0.472		Power	0.036		Power-50%		0.950	P-value	0.472	
Stouffer's		Power	0.107		Power-50%		0.914	P-value	0.528		Power	0.064		Power-50%		0.919	P-value	0.597		Power	0.061		Power-50%		0.930	P-value	0.597	
4825C/1424	3	8	39.09	4.26	12	26.67	4.79	-	+	0.081	8	24.08	5.51	12	22.19	4.68	-	+	0.940	8	24.08	5.51	12	22.19	4.68	-	+	0.940
453C/453	3	9	18.48	6.90	10	8.38	4.98	-	+	0.165	9	18.48	6.90	10	8.38	4.98	-	+	0.165	9	18.48	6.90	10	8.38	4.98	-	+	0.165
601C/601	3	9	16.96	3.32	10	25.26	10.10	-	-	0.877	9	9.31	2.94	10	25.01	10.17	-	-	0.388	9	9.31	2.94	10	25.01	10.17	-	-	0.388
598C/598	3	11	15.57	4.15	12	26.68	5.95	-	-	0.215	11	13.19	3.93	12	23.24	6.17	-	-	0.312	11	13.19	3.93	12	23.24	6.17	-	-	0.312
1522C/1522	3	11	16.85	5.29	6	22.73	7.15	-	-	0.355	11	15.48	5.26	6	21.48	7.22	-	-	0.391	11	15.48	5.26	6	21.48	7.22	-	-	0.391
Habitat Means			21.42	4.80		21.96	6.62		-			16.12	4.90		20.06	6.66		-			16.12	4.90		20.06	6.66		-	
Fisher's		Power	0.046		Power-50%		0.959	P-value	0.456x		Power	0.094		Power-50%		0.883	P-value	0.305		Power	0.100		Power-50%		0.851	P-value	0.305	
Stouffer's		Power	0.002		Power-50%		0.914	P-value	0.416		Power	0.008		Power-50%		0.844	P-value	0.339		Power	0.009		Power-50%		0.809	P-value	0.339	

(a) Kornmannia, Monostroma, Ulva and Ulvaria.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Fine Filamentous Greens								Acrosiphonia sp. (A)								Chaetomorpha/Rhizoclonium (A) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.11	0.11	12	2.82	2.30	-	-	0.270	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	1	12	0.00	0.00	12	1.04	1.04	-	-	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.02	0.02		0.76	0.66		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		---	P-value	0.304		Power	---		Power-50%		---	P-value	0.732		Power	---		Power-50%		---	P-value	0.732	
Stouffer's		Power	0.000		Power-50%		---	P-value	0.354		Power	---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---	P-value	0.500	
4825C/1424	2	11	0.23	0.23	12	0.73	0.73	-	-	0.723	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	2	12	0.21	0.21	12	0.21	0.21	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	2	11	0.23	0.23	10	0.50	0.33	-	-	0.500	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.12	0.12		0.28	0.24		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.014		Power-50%		---	P-value	0.535		Power	---		Power-50%		---	P-value	0.732		Power	---		Power-50%		---	P-value	0.732	
Stouffer's		Power	0.037		Power-50%		---	P-value	0.425		Power	---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---	P-value	0.500	
4825C/1424	3	8	12.51	2.20	12	4.48	2.04	-	+	0.017	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.79	0.79	12	1.15	0.75	-	-	0.656
453C/453	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
601C/601	3	9	7.64	2.23	10	0.25	0.25	-	+	0.003	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	1.39	1.39	10	0.00	0.00	-	-	0.347
598C/598	3	11	2.39	1.02	12	0.32	0.32	-	+	0.044	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	3	11	1.36	1.14	6	1.05	0.68	-	+	0.831	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.42	0.42	-	-	0.363
Habitat Means			4.78	1.30		1.24	0.66		-			0.00	0.00		0.00	0.00		o			0.44	0.44		0.32	0.24		-	
Fisher's		Power	---		Power-50%		---	P-value	0.000		Power	---		Power-50%		---	P-value	0.732		Power	0.002		Power-50%		---	P-value	0.552	
Stouffer's		Power	---		Power-50%		---	P-value	0.004		Power	---		Power-50%		---	P-value	0.500		Power	0.000		Power-50%		---	P-value	0.487	

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.2. Algal Percent Cover. Chlorophyta. Prince William Sound. Sheltered Rocky. May 1991. Undisturbed. (Continued.)

		Cladophora sp. (AE)								Ulothrix sp. (AE)								Urospora sp. (AE)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.11	0.11	12	0.00	0.00	-	+	0.339	12	0.00	0.00	12	2.29	2.29	-	-	0.339	12	0.00	0.00	12	0.52	0.53	-	-	0.339
453C/453	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	1.04	1.04	-	-	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.02	0.02		0.00	0.00		+			0.00	0.00		0.66	0.66		-			0.00	0.00		0.10	0.10		-	
Fisher's		Power	---		Power-50%	---	---	P-value		0.523	Power	---		Power-50%	---	---	P-value		0.338	Power	---		Power-50%	---	---	P-value		0.523
Stouffer's		Power	---		Power-50%	---	---	P-value		0.447	Power	---		Power-50%	---	---	P-value		0.362	Power	---		Power-50%	---	---	P-value		0.447
4825C/1424	2	11	0.23	0.23	12	0.00	0.00	-	+	0.341	11	0.00	0.00	12	0.73	0.73	-	-	0.339	11	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	2	12	0.21	0.21	12	0.21	0.21	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	*12*	*0.00*	*0.00*	*12*	*0.00*	*0.00*	-	o	*1.000*	*12*	*0.00*	*0.00*	*12*	*0.00*	*0.00*	-	o	*1.000*
1522C/1522	2	11	0.23	0.23	10	0.50	0.33	-	-	0.500	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.12	0.12		0.14	0.10		+			0.00	0.00		0.14	0.14		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.002		Power-50%	---	---	P-value		0.602 y	Power	---		Power-50%	---	---	P-value		0.523	Power	---		Power-50%	---	---	P-value		0.732
Stouffer's		Power	0.010		Power-50%	---	---	P-value		0.503	Power	---		Power-50%	---	---	P-value		0.447	Power	---		Power-50%	---	---	P-value		0.500
4825C/1424	3	8	11.74	2.21	12	3.34	1.77	-	+	0.006	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.00	0.00	12	0.00	0.00		o	1.000
453C/453	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
601C/601	3	9	6.26	2.29	10	0.25	0.25	-	+	0.014	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
598C/598	3	11	2.39	1.02	12	0.32	0.32	-	+	0.044	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	3	11	1.36	1.14	6	0.00	0.00	-	+	0.201	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.63	0.63	-	-	0.363
Habitat Means			4.36	1.32		0.78	0.48		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.12	0.12		-	
Fisher's		Power	---		Power-50%	---	---	P-value		0.000	Power	---		Power-50%	---	---	P-value		0.732	Power	---		Power-50%	---	---	P-value		0.536
Stouffer's		Power	---		Power-50%	---	---	P-value		0.003	Power	---		Power-50%	---	---	P-value		0.500	Power	---		Power-50%	---	---	P-value		0.425

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Tubular and Saccate Greens								Blidingia/Enteromorpha (AE) (a)															
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000									
453C/453	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000									
601C/601	1	12	0.00	0.00	12	0.21	0.21	-	-	0.339	12	0.00	0.00	12	0.21	0.21	-	-	0.339									
598C/598	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000									
1522C/1522	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.04	0.04		-			0.00	0.00		0.04	0.04		-										
Fisher's		Power	---		Power-50%	---	---	P-value		0.523	Power	---		Power-50%	---	---	P-value		0.523	Power	---		Power-50%	---	---	P-value		
Stouffer's		Power	---		Power-50%	---	---	P-value		0.412	Power	---		Power-50%	---	---	P-value		0.412	Power	---		Power-50%	---	---	P-value		
4825C/1424	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000									
453C/453	2	12	0.00	0.00	12	0.32	0.32	-	-	0.339	12	0.00	0.00	12	0.32	0.32	-	-	0.339									
601C/601	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000									
598C/598	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000									
1522C/1522	2	11	0.00	0.00	10	0.38	0.38	-	-	0.343	11	0.00	0.00	10	0.38	0.38	-	-	0.343									
Habitat Means			0.00	0.00		0.14	0.14		-			0.00	0.00		0.14	0.14		-										
Fisher's		Power	---		Power-50%	---	---	P-value		0.340	Power	---		Power-50%	---	---	P-value		0.340	Power	---		Power-50%	---	---	P-value		
Stouffer's		Power	---		Power-50%	---	---	P-value		*0.241*	Power	---		Power-50%	---	---	P-value		*0.241*	Power	---		Power-50%	---	---	P-value		
4825C/1424	3	8	2.50	2.50	12	0.00	0.00	-	+	0.351	8	2.50	2.50	12	0.00	0.00	-	-	0.351									
453C/453	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000									
601C/601	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000									
598C/598	3	11	0.00	0.00	12	3.13	3.13	-	-	0.339	11	0.00	0.00	12	3.13	3.13	-	-	0.339									
1522C/1522	3	11	0.00	0.00	6	0.22	0.22	-	-	0.363	11	0.00	0.00	6	0.22	0.22	-	-	0.363									
Habitat Means			0.50	0.50		0.66	0.66		-			0.50	0.50		0.66	0.66		-										
Fisher's		Power	---		Power-50%	---	---	P-value		0.430	Power	---		Power-50%	---	---	P-value		0.430	Power	---		Power-50%	---	---	P-value		
Stouffer's		Power	---		Power-50%	---	---	P-value		0.211	Power	---		Power-50%	---	---	P-value		0.211	Power	---		Power-50%	---	---	P-value		

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.3. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. May 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group: Bladed Browns								Total Fucus gardneri (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	32.62	9.73	12	8.54	7.43	-	+	0.028	12	31.37	9.26	12	8.13	7.01	-	+	0.024	12	31.37	9.26	12	8.13	7.01	-	-	0.024
453C/453	1	12	47.83	9.02	12	8.66	2.64	-	+	0.001	12	47.20	8.77	12	8.13	2.54	-	+	0.001	12	47.20	8.77	12	8.13	2.54	-	-	0.001
601C/601	1	12	6.05	2.80	12	5.22	2.79	-	+	0.857	12	6.05	2.80	12	5.01	2.72	-	+	0.829	12	6.05	2.80	12	5.01	2.72	-	+	0.829
598C/598	1	12	3.96	2.56	12	0.32	0.32	-	-	0.178	12	3.96	2.56	12	0.32	0.32	-	+	0.178	12	3.96	2.56	12	0.32	0.32	-	-	0.178
1522C/1522	1	12	28.76	10.52	12	25.44	8.92	-	+	0.948	12	28.76	10.52	12	24.30	8.67	-	+	0.985	12	28.76	10.52	12	24.30	8.67	-	-	0.985
Habitat Means			23.86	6.92		9.62	4.40		+			23.50	6.80		9.16	4.24		+			23.50	6.80		9.16	4.24		+	
Fisher's		Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.000
Stouffer's		Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.001
4825C/1424	2	11	49.22	8.05	12	33.13	9.64	-	+	0.246	11	26.04	5.58	12	17.93	6.85	-	+	0.309	11	26.04	5.58	12	17.93	6.85	-	+	0.309
453C/453	2	12	45.12	7.32	12	18.76	6.11	-	+	0.015	12	42.10	7.80	12	17.82	6.09	-	+	0.026	12	41.89	7.81	12	17.82	6.09	-	+	0.027
601C/601	2	12	34.80	7.82	12	23.76	8.72	-	+	0.301	12	29.80	7.83	12	9.27	3.04	-	+	0.020	12	29.80	7.83	12	9.27	3.04	-	+	0.020
598C/598	2	12	11.05	3.90	12	34.38	10.39	-	-	0.103	12	8.34	3.01	12	32.82	10.13	-	-	0.075	12	8.34	3.01	12	32.82	10.13	-	-	0.075
1522C/1522	2	11	50.69	8.87	10	62.00	7.13	-	-	0.361	11	43.99	7.36	10	31.01	9.81	-	-	0.349	11	43.99	7.36	10	31.01	9.81	-	+	0.349
Habitat Means			38.18	7.20		34.42	8.38		+			30.04	6.32		21.76	7.18		+			30.00	6.32		21.76	7.18		+	
Fisher's		Power	---		Power-50%		---	P-value		0.051	Power	---		Power-50%		---	P-value		0.005x	Power	---		Power-50%		---	P-value		0.005x
Stouffer's		Power	0.385		Power-50%		0.920	P-value		0.409	Power	0.698		Power-50%		0.892	P-value		0.250	Power	0.708		Power-50%		0.894	P-value		0.253
4825C/1424	3	8	45.48	7.43	12	46.66	7.01	-	-	0.888	8	23.30	6.51	12	34.36	6.69	-	-	0.487	8	23.30	6.51	12	34.36	6.69	-	-	0.487
453C/453	3	9	50.58	10.67	10	18.51	7.96	-	+	0.025	9	45.16	10.03	10	17.51	8.03	-	+	0.040	9	45.16	10.03	10	17.51	8.03	-	+	0.040
601C/601	3	9	43.90	6.28	10	43.63	9.72	-	-	1.000	9	22.79	4.30	10	32.76	9.98	-	-	0.616	9	22.79	4.30	10	32.76	9.98	-	-	0.616
598C/598	3	11	53.41	6.30	12	48.35	6.67	-	-	0.520	11	32.63	6.59	12	28.98	5.45	-	+	0.614	11	32.28	6.64	12	28.98	5.45	-	+	0.645
1522C/1522	3	11	40.88	8.47	6	49.60	7.32	-	-	0.478	11	30.64	7.11	6	26.07	7.45	-	+	0.702	11	30.64	7.11	6	26.07	7.45	-	+	0.702
Habitat Means			46.86	7.84		41.36	7.74		-			30.90	6.90		27.96	7.54		+			30.84	6.90		27.96	7.54		-	
Fisher's		Power	0.494		Power-50%		0.989	P-value		0.147	Power	0.308		Power-50%		0.970	P-value		0.193	Power	0.303		Power-50%		0.976	P-value		0.198
Stouffer's		Power	---		Power-50%		---	P-value		0.064	Power	---		Power-50%		---	P-value		0.089	Power	---		Power-50%		---	P-value		0.094

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Adult Fucus gardneri (P) (> 2cm)								Juvenile Fucus gardneri (P) (<= 2cm)								Fucus Stipes (P) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	30.63	9.32	12	6.25	5.14	-	+	0.014	12	0.73	0.45	12	1.87	1.87	-	-	0.994	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	1	12	45.74	8.98	12	6.57	2.20	-	+	0.001	12	1.47	0.77	12	1.57	0.86	-	-	0.907	12	0.00	0.00	12	0.42	0.28	-	-	0.166
601C/601	1	12	3.97	2.35	12	3.96	2.60	-	+	0.875	12	2.08	1.87	12	1.05	0.46	-	+	0.841	12	0.21	0.21	12	0.42	0.42	-	-	0.811
598C/598	1	12	3.96	2.56	12	0.32	0.32	-	+	0.178	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.11	0.11	12	0.00	0.00	-	+	0.339
1522C/1522	1	12	28.13	10.66	12	17.52	7.18	-	+	0.690	12	0.63	0.45	12	6.78	4.90	-	-	0.124	12	0.00	0.00	12	0.11	0.11	-	-	0.339
Habitat Means			22.48	6.80		6.94	3.48		+			0.98	0.74		2.28	1.64		-			0.06	0.06		0.18	0.16		-	
Fisher's		Power	---		Power-50%		---	P-value		0.000	Power	0.164		Power-50%		0.635	P-value		0.357	Power	0.033		Power-50%		---	P-value		0.279
Stouffer's		Power	---		Power-50%		---	P-value		0.001	Power	0.124		Power-50%		0.244	P-value		0.369	Power	0.198		Power-50%		---	P-value		0.403
4825C/1424	2	11	23.87	5.52	12	17.20	6.42	-	+	0.373	11	2.16	0.72	12	0.73	0.45	-	+	0.066	11	0.00	0.00	12	0.21	0.21	-	-	0.339
453C/453	2	12	41.37	7.88	12	17.82	6.09	-	+	0.030	12	0.52	0.42	12	0.00	0.00	-	+	0.190	12	1.15	1.04	12	0.52	0.36	-	+	0.787
601C/601	2	12	28.13	7.92	12	8.97	3.05	-	+	0.045	12	1.68	0.82	12	0.32	0.23	-	+	0.127	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	2	12	6.78	3.13	12	29.38	10.55	-	-	0.069	12	1.57	0.69	12	3.44	2.08	-	-	0.749	12	0.42	0.28	12	1.15	0.65	-	-	0.434
1522C/1522	2	11	38.54	7.34	10	30.14	9.90	-	+	0.524	11	5.46	2.67	10	0.88	0.46	-	+	0.120	11	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			27.74	6.34		20.70	7.22		+			2.30	1.06		1.06	0.66		+			0.32	0.26		0.38	0.26		-	
Fisher's		Power	---		Power-50%		---	P-value		0.015x	Power	---		Power-50%		---	P-value		0.009	Power	0.016		Power-50%		0.000	P-value		0.408
Stouffer's		Power	0.594		Power-50%		0.864	P-value		0.323	Power	---		Power-50%		---	P-value		0.084	Power	0.053		Power-50%		0.204	P-value		0.276
4825C/1424	3	8	20.95	6.36	12	34.26	6.70	-	-	0.362	8	2.35	1.07	12	0.11	0.11	-	+	0.062	8	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	3	9	45.16	10.03	10	17.38	8.06	-	+	0.037	9	0.00	0.00	10	0.13	0.13	-	-	0.343	9	0.28	0.28	10	0.00	0.00	-	+	0.347
601C/601	3	9	21.94	4.41	10	31.01	9.51	-	-	0.646	9	0.84	0.47	10	1.75	1.49	-	-	0.945	9	0.28	0.28	10	0.13	0.13	-	-	0.766
598C/598	3	11	31.38	6.79	12	26.27	5.04	-	+	0.519	11	0.92	0.48	12	2.72	1.61	-	-	0.563	11	0.12	0.12	12	0.11	0.11	-	+	0.952
1522C/1522	3	11	28.13	7.56	6	25.23	7.51	-	+	0.939	11	2.51	1.32	6	0.83	0.53	-	+	0.455	11	1.37	0.77	6	0.22	0.22	-	+	0.383
Habitat Means			29.52	7.04		26.84	7.36		+			1.32	0.68		1.10	0.76		-			0.42	0.30		0.08	0.08		+	
Fisher's		Power	0.229		Power-50%		0.964	P-value		0.204	Power	0.007		Power-50%		0.858	P-value		0.615xy	Power	0.068		Power-50%		0.143	P-value		0.313
Stouffer's		Power	---		Power-50%		---	P-value		0.082	Power	0.010		Power-50%		0.723	P-value		0.290	Power	0.175		Power-50%		0.227	P-value		0.213

(a) Dead Fucus plants or stipes without blades.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.3. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. May 1991. Undisturbed. (Continued.)

Site Pair	Mvd	Petalonia/Punctaria (AE) (b) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Coarse Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Dictyosiphon sp. (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.63	0.63	12	0.11	0.11	-	+	0.595	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.52	0.42	-	-	0.190	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.12	0.12		0.12	0.10		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	0.000		Power-50%		---	P-value		0.479 y	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.013		Power-50%		---	P-value		0.504	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	1.03	0.50	12	0.63	0.29	-	+	0.665	11	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	2	12	0.21	0.21	12	0.00	0.00	-	+	0.339	12	1.98	1.67	12	0.52	0.42	-	+	0.562	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	1.05	0.51	12	0.00	0.00	-	o	0.046	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	1.78	0.88	12	0.94	0.94	-	+	0.311	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	2	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.70	0.36	10	0.88	0.53	-	-	0.980	11	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.04	0.04		0.00	0.00		+			1.32	0.80		0.58	0.42		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.523	Power	---		Power-50%		---	P-value		0.067	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.306	Power	---		Power-50%		---	P-value		0.054	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	2.36	0.93	12	0.74	0.53	-	+	0.081	8	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.56	0.37	10	0.38	0.38	-	+	0.612	9	0.00	0.00	10	0.00	0.00	-	o	1.000
601C/601	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	3.21	1.82	10	3.25	1.45	-	-	0.969	9	0.00	0.00	10	0.00	0.00	-	o	1.000
598C/598	3	11	0.35	0.25	12	0.00	0.00	-	+	0.173	11	7.51	3.38	12	2.19	1.09	-	+	0.104	11	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	3	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	3.65	1.44	6	0.00	0.00	-	+	0.011	11	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.08	0.06		0.00	0.00		+			3.48	1.58		1.32	0.70		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.403	Power	---		Power-50%		---	P-value		0.003	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.000		Power-50%		0.030	P-value		0.145	Power	---		Power-50%		---	P-value		0.011	Power	---		Power-50%		---	P-value		0.500

(b) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Fine Filamentous Browns (AE) (b) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	1.25	0.90	12	0.42	0.42	-	+	0.471	12	1.25	0.90	12	0.42	0.42	-	+	0.471
453C/453	1	12	0.63	0.63	12	0.11	0.11	-	+	0.595	12	0.00	0.00	12	0.42	0.42	-	-	0.339	12	0.00	0.00	12	0.42	0.42	-	-	0.339
601C/601	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.21	0.21	-	-	0.339	12	0.00	0.00	12	0.21	0.21	-	-	0.339
598C/598	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.00	0.00	12	0.52	0.42	-	-	0.190	12	0.00	0.00	12	0.63	0.42	-	-	0.103	12	0.00	0.00	12	0.63	0.42	-	-	0.103
Habitat Means			0.12	0.12		0.12	0.10		-			0.26	0.18		0.32	0.28		-			0.26	0.18		0.32	0.28		-	
Fisher's		Power	0.000		Power-50%		---	P-value		0.479 y	Power	0.095		Power-50%		0.000	P-value		0.134	Power	0.102		Power-50%		0.000	P-value		0.134
Stouffer's		Power	0.012		Power-50%		---	P-value		0.504	Power	0.208		Power-50%		0.000	P-value		0.167	Power	0.200		Power-50%		0.000	P-value		0.167
4825C/1424	2	11	1.03	0.50	12	0.63	0.29	-	+	0.665	11	22.16	6.09	12	14.59	7.58	-	+	0.368	11	22.16	6.09	12	14.59	7.58	-	+	0.368
453C/453	2	12	1.98	1.67	12	0.52	0.42	-	+	0.562	12	1.04	1.04	12	0.42	0.42	-	+	0.753	12	1.04	1.04	12	0.42	0.42	-	+	0.753
601C/601	2	12	1.05	0.51	12	0.00	0.00	-	+	0.046	12	3.96	3.53	12	14.48	8.92	-	-	0.216	12	3.96	3.53	12	14.48	8.92	-	-	0.216
598C/598	2	12	1.78	0.88	12	0.94	0.94	-	+	0.311	12	0.95	0.38	12	0.63	0.33	-	+	0.481	12	0.95	0.38	12	0.63	0.33	-	+	0.481
1522C/1522	2	11	0.70	0.36	10	0.88	0.53	-	-	0.980	11	6.03	3.64	10	30.14	9.03	-	-	0.037	11	6.03	3.64	10	30.14	9.03	-	-	0.037
Habitat Means			1.32	0.80		0.58	0.42		+			6.84	2.92		12.04	5.24		+			6.84	2.92		12.04	5.24		+	
Fisher's		Power	---		Power-50%		---	P-value		0.067	Power	0.059		Power-50%		0.792	P-value		0.584xy	Power	0.062		Power-50%		0.777	P-value		0.584xy
Stouffer's		Power	---		Power-50%		---	P-value		0.054	Power	0.007		Power-50%		0.706	P-value		0.453	Power	0.008		Power-50%		0.689	P-value		0.453
4825C/1424	3	8	2.36	0.93	12	0.74	0.53	-	+	0.081	8	19.85	6.97	12	11.59	3.71	-	+	0.235	8	19.85	6.97	12	11.59	3.71	-	+	0.235
453C/453	3	9	0.56	0.37	10	0.38	0.38	-	+	0.612	9	4.87	3.66	10	0.64	0.39	-	+	0.256	9	4.87	3.66	10	0.64	0.39	-	+	0.256
601C/601	3	9	3.21	1.82	10	3.25	1.45	-	-	0.969	9	17.92	5.14	10	7.63	3.12	-	-	0.041	9	17.92	5.14	10	7.63	3.12	-	+	0.041
598C/598	3	11	7.51	3.38	12	2.19	1.09	-	+	0.104	11	13.32	4.11	12	17.20	4.81	-	-	0.772	11	13.32	4.11	12	17.20	4.81	-	-	0.772
1522C/1522	3	11	3.65	1.44	6	0.00	0.00	-	+	0.011	11	6.63	1.96	6	23.57	7.40	-	-	0.024	11	6.63	1.96	6	23.57	7.40	-	-	0.024
Habitat Means			3.48	1.58		1.32	0.70		+			12.52	4.38		12.12	3.88		+			12.52	4.38		12.12	3.88		+	
Fisher's		Power	---		Power-50%		---	P-value		0.003	Power	---		Power-50%		---	P-value		0.071x	Power	---		Power-50%		---	P-value		0.071x
Stouffer's		Power	---		Power-50%		---	P-value		0.011	Power	0.177		Power-50%		0.825	P-value		0.292	Power	0.181		Power-50%		0.841	P-value		0.292

(a) Genera not separated.

(b) Elachista, Ectocarpus and Pilayella.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.3. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. May 1991. Undisturbed. (Continued.)

		Morphological Group: Saccate Browns								Leathesia/Colpomenia (A) (a)								Soranthera ulvoidea (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	2	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
601C/601	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
598C/598	3	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	3	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

(a) Genera not separated.

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Crustose Browns								Ralfsia/Petroderma (P) (a)															
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000									
453C/453	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000									
601C/601	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000									
598C/598	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000									
1522C/1522	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
4825C/1424	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000									
453C/453	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000									
601C/601	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000									
598C/598	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000									
1522C/1522	2	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
4825C/1424	3	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.00	0.00	12	0.00	0.00	-	o	1.000									
453C/453	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000									
601C/601	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000									
598C/598	3	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000									
1522C/1522	3	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.4. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. May 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group: Bladed Reds								Bangia sp. (AE)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.52	0.29	12	0.11	0.11	-	+	0.227	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	1	12	1.25	0.49	12	1.36	0.89	-	-	0.689	12	0.21	0.21	12	0.00	0.00	-	+	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	1	12	0.83	0.83	12	0.73	0.45	-	+	0.680	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	1	12	2.10	0.71	12	0.00	0.00	-	+	0.002	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.00	0.00	12	3.54	2.51	-	-	0.115	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.94	0.46		1.14	0.80		+			0.04	0.04		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---		P-value	0.020 y	Power	---			Power-50%	---		P-value	0.523	Power	---			Power-50%	---		P-value	0.732
Stouffer's		Power	---			Power-50%	---		P-value	0.018	Power	---			Power-50%	---		P-value	0.306	Power	---			Power-50%	---		P-value	0.500
4825C/1424	2	11	3.18	1.58	12	0.85	0.52	-	+	0.292	11	0.23	0.23	12	0.00	0.00	-	+	0.341	11	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	2	12	14.08	3.31	12	4.81	1.63	-	-	0.004	12	0.42	0.28	12	0.42	0.28	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	2	12	1.98	1.47	12	2.82	1.79	-	-	0.788	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	2	11	0.46	0.35	10	4.76	2.83	-	-	0.104	11	0.00	0.00	10	0.13	0.13	-	-	0.343	11	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			3.96	1.36		2.66	1.34		+			0.12	0.10		0.10	0.08		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---		P-value	0.045	Power	0.001			Power-50%	0.013		P-value	0.622	Power	---			Power-50%	---		P-value	0.732
Stouffer's		Power	0.343			Power-50%	0.557		P-value	0.104	Power	0.013			Power-50%	0.001		P-value	0.526	Power	---			Power-50%	---		P-value	0.500
4825C/1424	3	8	10.79	5.78	12	23.26	4.01	-	-	0.039	8	0.16	0.16	12	9.70	3.55	-	-	0.004	8	0.00	0.00	12	3.54	2.62	-	-	0.178
453C/453	3	9	21.51	9.48	10	11.89	4.88	-	+	0.316	9	1.53	0.88	10	1.64	0.90	-	-	0.895	9	0.00	0.00	10	0.00	0.00	-	o	1.000
601C/601	3	9	11.82	4.16	10	2.63	1.99	-	+	0.009	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
598C/598	3	11	3.65	1.51	12	3.45	1.60	-	+	0.975	11	0.35	0.25	12	0.43	0.24	-	-	0.761	11	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	3	11	6.39	2.74	6	15.03	6.73	-	-	0.184	11	0.00	0.00	6	2.10	1.48	-	-	0.186	11	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			10.84	4.74		11.26	3.84		-			0.42	0.28		2.76	1.24		-			0.00	0.00		0.70	0.52		-	
Fisher's		Power	---			Power-50%	---		P-value	0.096xy	Power	---			Power-50%	---		P-value	0.016	Power	0.000			Power-50%	---		P-value	0.408
Stouffer's		Power	0.182			Power-50%	0.855		P-value	0.275	Power	0.243			Power-50%	0.590		P-value	0.165	Power	0.000			Power-50%	---		P-value	0.426

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Gigartinaceae Group (P) (a)								Palmaria spp. (A)								Phycodrys riggii (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---		P-value	0.732	Power	---			Power-50%	---		P-value	0.732	Power	---			Power-50%	---		P-value	0.732
Stouffer's		Power	---			Power-50%	---		P-value	0.500	Power	---			Power-50%	---		P-value	0.500	Power	---			Power-50%	---		P-value	0.500
4825C/1424	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	2	11	0.00	0.00	10	0.13	0.13	-	-	0.343	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.02	0.02		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---		P-value	0.526	Power	---			Power-50%	---		P-value	0.732	Power	---			Power-50%	---		P-value	0.732
Stouffer's		Power	---			Power-50%	---		P-value	0.422	Power	---			Power-50%	---		P-value	0.500	Power	---			Power-50%	---		P-value	0.500
4825C/1424	3	8	0.16	0.16	12	0.63	0.29	-	-	0.263	8	0.00	0.00	12	3.86	1.92	-	-	0.029	8	0.00	0.00	12	1.46	0.78	-	-	0.084
453C/453	3	9	0.14	0.14	10	0.00	0.00	-	+	0.347	9	0.98	0.65	10	0.88	0.75	-	+	0.858	9	0.14	0.14	10	0.13	0.13	-	+	0.941
601C/601	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
598C/598	3	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.35	0.25	12	0.32	0.23	-	+	0.929	11	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	3	11	0.00	0.00	6	0.22	0.22	-	-	0.363	11	0.00	0.00	6	1.05	0.68	-	-	0.178	11	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.06	0.06		0.16	0.10		-			0.28	0.20		1.24	0.72		-			0.02	0.02		0.32	0.18		-	
Fisher's		Power	0.022			Power-50%	---		P-value	0.388	Power	---			Power-50%	---		P-value	0.073	Power	0.029			Power-50%	---		P-value	0.300
Stouffer's		Power	0.000			Power-50%	---		P-value	0.562	Power	0.128			Power-50%	0.393		P-value	0.337	Power	0.025			Power-50%	---		P-value	0.420

(a) Chondrus, Iridaea, Mastocarpus and Mazzaella.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.4. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. May 1991. Undisturbed. (Continued.)

Site Pair	Mvd	Porphyra sp. (A) N	C	SE	N	O	SE	CV	D	P	Rhodymenia pertusa (A) N	C	SE	N	O	SE	CV	D	P	Tokidadendron kurilensis (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	1	12	0.21	0.21	12	0.00	0.00	-	+	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.04	0.04		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.523	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.306	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	11	0.23	0.23	12	0.00	0.00	-	-	0.341	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	2	12	0.42	0.28	12	0.42	0.28	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	2	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.12	0.10		0.08	0.06		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.003		Power-50%		0.020	P-value		0.524	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.025		Power-50%		0.002	P-value		0.447	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.00	0.00	12	0.21	0.21	-	-	0.339	8	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	3	9	0.28	0.28	10	0.38	0.27	-	-	0.712	9	0.00	0.00	10	0.25	0.25	-	-	0.343	9	0.00	0.00	10	0.00	0.00	-	o	1.000
601C/601	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
598C/598	3	11	0.00	0.00	12	0.11	0.11	-	-	0.339	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	3	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.83	0.83	-	-	0.363
Habitat Means			0.06	0.06		0.10	0.08		-			0.00	0.00		0.10	0.10		-			0.00	0.00		0.16	0.16		-	
Fisher's		Power	0.001		Power-50%		---	P-value		0.460	Power	---		Power-50%		---	P-value		0.340	Power	---		Power-50%		---	P-value		0.536
Stouffer's		Power	0.067		Power-50%		---	P-value		0.174	Power	---		Power-50%		---	P-value		0.263	Power	---		Power-50%		---	P-value		0.425

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Morphological Group: Coarse Filamentous Reds N	C	SE	N	O	SE	CV	D	P	Articulate Coralline Algae (A) N	C	SE	N	O	SE	CV	D	P	Cryptosiphonia woodii (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.32	0.23	12	0.00	0.00	-	+	0.172	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	1	12	1.04	0.37	12	1.36	0.89	-	-	0.782	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	1	12	0.83	0.83	12	0.73	0.45	-	+	0.680	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	1	12	1.99	0.73	12	0.00	0.00	-	+	0.006	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.00	0.00	12	3.54	2.51	-	-	0.115	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.82	0.42		1.12	0.78		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.030 y	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.025	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	11	2.95	1.61	12	0.33	0.17	-	+	0.236	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.11	0.11	-	-	0.339
453C/453	2	12	11.68	2.39	12	4.28	1.55	-	+	0.004	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.11	0.11	-	-	0.339
601C/601	2	12	1.98	1.47	12	2.82	1.79	-	-	0.788	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	2	11	0.46	0.35	10	3.64	2.83	-	-	0.236	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.13	0.13	-	-	0.343
Habitat Means			3.44	1.18		2.20	1.28		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.06	0.06		-	
Fisher's		Power	---		Power-50%		---	P-value		0.034	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.202
Stouffer's		Power	---		Power-50%		---	P-value		0.081	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.201
4825C/1424	3	8	9.70	5.56	12	10.33	3.36	-	-	0.951	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.31	0.31	12	1.57	0.77	-	-	0.249
453C/453	3	9	16.64	9.37	10	8.51	3.53	-	+	0.341	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	1.67	1.18	10	0.13	0.13	-	+	0.275
601C/601	3	9	11.54	4.20	10	2.00	2.00	-	+	0.004	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.84	0.56	10	0.00	0.00	-	+	0.169
598C/598	3	11	2.40	0.89	12	2.93	1.33	-	-	0.871	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	1.57	1.06	-	-	0.106
1522C/1522	3	11	5.93	2.60	6	7.72	3.79	-	-	0.530	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	1.26	1.04	6	1.68	0.90	-	-	0.440
Habitat Means			9.22	4.54		6.28	2.80		-			0.00	0.00		0.00	0.00		o			0.82	0.62		1.00	0.58		-	
Fisher's		Power	0.023		Power-50%		0.879	P-value		0.800xy	Power	---		Power-50%		---	P-value		0.732	Power	0.163		Power-50%		0.272	P-value		0.194
Stouffer's		Power	0.005		Power-50%		0.820	P-value		0.819	Power	---		Power-50%		---	P-value		0.500	Power	0.022		Power-50%		0.046	P-value		0.249

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.4. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. May 1991. Undisturbed. (Continued.)

Site Pair	Mvd	Endocladia muricata (P) N	C	SE	N	O	SE	CV	D	P	Gloiopeltis furcata (A) N	C	SE	N	O	SE	CV	D	P	Neorhodomela/Rhodomela (P) (a) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.32	0.23	12	0.00	0.00	-	+	0.172	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.43	0.24	12	0.21	0.21	-	+	0.389	12	0.00	0.00	12	0.83	0.83	-	-	0.339
601C/601	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.83	0.83	12	0.73	0.45	-	+	0.680	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	1.99	0.73	12	0.00	0.00	-	+	0.006	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.42	0.42	-	-	0.339	12	0.00	0.00	12	0.63	0.63	-	-	0.339
Habitat Means			0.00	0.00		0.00	0.00		o			0.70	0.38		0.26	0.22		+			0.00	0.00		0.28	0.28		-	
Fisher's		Power ---			Power-50% ---			P-value		0.732	Power ---			Power-50% ---			P-value		0.013	Power ---			Power-50% ---			P-value		0.338
Stouffer's		Power ---			Power-50% ---			P-value		0.500	Power ---			Power-50% ---			P-value		0.004	Power ---			Power-50% ---			P-value		0.240
4825C/1424	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.91	0.91	12	0.00	0.00	-	-	0.341	11	0.68	0.68	12	0.11	0.11	-	+	0.570
453C/453	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	1.88	0.76	12	0.21	0.21	-	-	0.052	12	3.75	2.31	12	1.47	0.74	-	+	0.536
601C/601	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	1.04	1.04	-	-	0.339
598C/598	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	2	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.13	0.13	-	-	0.343	11	0.00	0.00	10	3.00	2.73	-	-	0.234
Habitat Means			0.00	0.00		0.00	0.00		o			0.56	0.34		0.06	0.06		-			0.90	0.60		1.12	0.90		-	
Fisher's		Power ---			Power-50% ---			P-value		0.732	Power 0.105			Power-50% 0.110			P-value		0.173	Power 0.016			Power-50% 0.008			P-value		0.396
Stouffer's		Power ---			Power-50% ---			P-value		0.500	Power 0.371			Power-50% 0.044			P-value		0.167	Power 0.042			Power-50% 0.002			P-value		0.475
4825C/1424	3	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.48	0.48	12	0.00	0.00	-	+	0.351	8	0.16	0.16	12	2.71	2.71	-	-	0.502
453C/453	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	11.78	9.82	10	2.50	2.50	-	+	0.268
601C/601	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
598C/598	3	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.83	0.64	-	-	0.183
1522C/1522	3	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.23	0.23	6	3.55	3.55	-	-	0.454
Habitat Means			0.00	0.00		0.00	0.00		o			0.10	0.10		0.00	0.00		+			2.44	2.04		1.92	1.88		-	
Fisher's		Power ---			Power-50% ---			P-value		0.732	Power ---			Power-50% ---			P-value		0.530	Power 0.023			Power-50% 0.017			P-value		0.273 y
Stouffer's		Power ---			Power-50% ---			P-value		0.500	Power ---			Power-50% ---			P-value		0.448	Power 0.030			Power-50% 0.002			P-value		0.243

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Odonthalia floccosa (P) N	C	SE	N	O	SE	CV	D	P	Ptilota/Neoptilota (P) (b) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Saccate Reds N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	1	12	0.63	0.29	12	0.32	0.23	-	+	0.376	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.00	0.00	12	2.50	2.50	-	-	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.12	0.06		0.56	0.54		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power 0.000			Power-50% 0.023			P-value		0.617	Power ---			Power-50% ---			P-value		0.732	Power ---			Power-50% ---			P-value		0.732
Stouffer's		Power 0.005			Power-50% 0.012			P-value		0.607	Power ---			Power-50% ---			P-value		0.500	Power ---			Power-50% ---			P-value		0.500
4825C/1424	2	11	1.36	1.36	12	0.11	0.11	-	+	0.491	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	2	12	6.05	2.29	12	2.50	1.41	-	+	0.208	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.11	0.11	12	0.00	0.00	-	+	0.339
601C/601	2	12	1.98	1.47	12	1.78	1.56	-	+	0.805	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	2	11	0.46	0.35	10	0.38	0.27	-	+	0.973	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	1.00	0.76	-	-	0.185
Habitat Means			2.00	1.12		0.96	0.68		+			0.00	0.00		0.00	0.00		o			0.02	0.02		0.20	0.16		-	
Fisher's		Power 0.093			Power-50% 0.413			P-value		0.286	Power ---			Power-50% ---			P-value		0.732	Power 0.000			Power-50% ---			P-value		0.505
Stouffer's		Power 0.218			Power-50% 0.167			P-value		0.204	Power ---			Power-50% ---			P-value		0.500	Power 0.000			Power-50% ---			P-value		0.592
4825C/1424	3	8	8.75	5.73	12	6.04	2.83	-	+	0.613	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.16	0.16	12	1.05	0.40	-	-	0.124
453C/453	3	9	3.20	1.71	10	5.89	2.99	-	-	0.680	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	1.27	0.84	10	0.13	0.13	-	-	0.191
601C/601	3	9	10.71	4.20	10	2.00	2.00	-	+	0.005	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.63	0.50	-	-	0.193
598C/598	3	11	2.40	0.89	12	0.52	0.29	-	+	0.105	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	3	11	4.44	2.65	6	2.52	1.34	-	+	0.897	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.46	0.46	6	2.08	2.08	-	-	0.457
Habitat Means			5.90	3.04		3.38	1.88		-			0.00	0.00		0.00	0.00		o			0.40	0.30		0.78	0.62		-	
Fisher's		Power ---			Power-50% ---			P-value		0.013	Power ---			Power-50% ---			P-value		0.732	Power 0.138			Power-50% 0.040			P-value		0.140
Stouffer's		Power ---			Power-50% ---			P-value		0.038	Power ---			Power-50% ---			P-value		0.500	Power 0.016			Power-50% 0.003			P-value		0.509

(b) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.4. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. May 1991. Undisturbed. (Continued.)

Site Pair	Mvd	Halosaccion glandiforme (A) N	C	SE	N	O	SE	CV	D	P	Halosaccion spp. (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	2	12	0.11	0.11	12	0.00	0.00	-	+	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	1.04	1.04	12	0.00	0.00	-	+	0.339
601C/601	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	2	11	0.00	0.00	10	1.00	0.76	-	-	0.185	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.02	0.02		0.20	0.16		-			0.00	0.00		0.00	0.00		o			0.20	0.20		0.00	0.00		+	
Fisher's		Power	0.000		Power-50%		---	P-value		0.505	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.523
Stouffer's		Power	0.000		Power-50%		---	P-value		0.592	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.306
4825C/1424	3	8	0.00	0.00	12	1.05	0.40	-	-	0.019	8	0.16	0.16	12	0.00	0.00	-	+	0.351	8	0.79	0.53	12	2.21	1.10	-	-	0.473
453C/453	3	9	1.27	0.84	10	0.13	0.13	-	+	0.191	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	1.40	1.09	10	1.63	1.63	-	-	0.731
601C/601	3	9	0.00	0.00	10	0.63	0.50	-	-	0.193	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.28	0.28	10	0.00	0.00	-	-	0.347
598C/598	3	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.92	0.68	12	0.11	0.11	-	+	0.225
1522C/1522	3	11	0.46	0.46	6	2.08	2.08	-	-	0.457	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	3.13	1.43	-	-	0.043
Habitat Means			0.36	0.26		0.78	0.62		-			0.04	0.04		0.00	0.00		+			0.68	0.52		1.40	0.84		-	
Fisher's		Power	---		Power-50%		---	P-value		0.047	Power	---		Power-50%		---	P-value		0.530	Power	0.049		Power-50%		0.478	P-value		0.212
Stouffer's		Power	0.017		Power-50%		0.000	P-value		0.465	Power	---		Power-50%		---	P-value		0.448	Power	0.012		Power-50%		0.778	P-value		0.676

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Crustose Reds N	C	SE	N	O	SE	CV	D	P	Crustose Coralline Algae (P) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.21	0.21	12	0.11	0.11	-	+	0.822	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.11	0.11	12	0.00	0.00	-	+	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.06	0.06		0.02	0.02		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.487	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.220	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.52	0.53	-	-	0.339	11	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	2	12	1.04	1.04	12	0.00	0.00	-	+	0.339	12	0.83	0.83	12	0.11	0.11	-	+	0.553	12	0.83	0.83	12	0.00	0.00	-	-	0.339
601C/601	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	2	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.20	0.20		0.00	0.00		+			0.16	0.16		0.12	0.12		-			0.16	0.16		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.523	Power	---		Power-50%		---	P-value		0.594 y	Power	---		Power-50%		---	P-value		0.523
Stouffer's		Power	---		Power-50%		---	P-value		0.306	Power	---		Power-50%		---	P-value		0.572	Power	---		Power-50%		---	P-value		0.306
4825C/1424	3	8	0.79	0.53	12	2.21	1.10	-	-	0.473	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	3	9	1.40	1.09	10	1.63	1.63	-	-	0.731	9	0.70	0.56	10	0.00	0.00	-	+	0.194	9	0.70	0.56	10	0.00	0.00	-	+	0.194
601C/601	3	9	0.28	0.28	10	0.00	0.00	-	+	0.347	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
598C/598	3	11	0.92	0.68	12	0.11	0.11	-	+	0.225	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	3	11	0.00	0.00	6	3.13	1.43	-	-	0.043	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.68	0.52		1.40	0.84		-			0.14	0.12		0.00	0.00		+			0.14	0.12		0.00	0.00		+	
Fisher's		Power	0.051		Power-50%		0.491	P-value		0.212	Power	0.000		Power-50%		0.000	P-value		0.422	Power	0.000		Power-50%		0.000	P-value		0.422
Stouffer's		Power	0.012		Power-50%		0.744	P-value		0.676	Power	0.014		Power-50%		0.000	P-value		0.246	Power	0.012		Power-50%		0.000	P-value		0.246

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.4. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. May 1991. Undisturbed. (Continued.)

Pair		Hildenbrandia sp. (P)								Petrocelis (P)																
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.21	0.21	12	0.11	0.11	-	+	0.822								
453C/453	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000								
601C/601	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000								
598C/598	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.11	0.11	12	0.00	0.00	-	+	0.339								
1522C/1522	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000								
Habitat Means			0.00	0.00		0.00	0.00		o			0.06	0.06		0.02	0.02		-									
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.487	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.220	Power	---		Power-50%		---	P-value		
4825C/1424	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.52	0.53	-	-	0.339								
453C/453	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.11	0.11	-	-	0.339								
601C/601	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000								
598C/598	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000								
1522C/1522	2	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000								
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.12	0.12		-									
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.338	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.261	Power	---		Power-50%		---	P-value		
4825C/1424	3	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.00	0.00	12	0.00	0.00	-	o	1.000								
453C/453	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000								
601C/601	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000								
598C/598	3	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000								
1522C/1522	3	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000								
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o									
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.5. Algal Percent Cover. Invertebrates. Prince William Sound. Sheltered Rocky. May 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Balanomorpha								Lottiidae								Mytilus							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.32	0.32	12	12.51	6.13	-	-	0.019	12	0.00	0.00	12	0.11	0.11	-	-	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	1	12	3.66	1.65	12	0.83	0.64	-	+	0.068	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	1	12	7.09	2.80	12	4.07	2.32	-	+	0.422	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	1	12	3.55	1.73	12	5.53	1.57	-	-	0.185	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	1	12	17.50	8.53	12	9.31	3.08	-	+	0.659	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.21	0.21	12	0.00	0.00	-	+	0.339
Habitat Means			6.44	3.00		6.44	2.74		+			0.00	0.00		0.02	0.02		-			0.04	0.04		0.00	0.00		+	
Fisher's		Power	0.178			Power-50%	0.872	P-value		0.265xy	Power	---			Power-50%	---	P-value		0.523	Power	---			Power-50%	---	P-value		0.523
Stouffer's		Power	0.197			Power-50%	0.843	P-value		0.543	Power	---			Power-50%	---	P-value		0.447	Power	---			Power-50%	---	P-value		0.421
4825C/1424	2	11	3.41	2.29	12	9.91	3.97	-	-	0.147	11	0.00	0.00	12	0.11	0.11	-	-	0.339	11	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	2	12	3.86	1.44	12	1.68	0.76	-	+	0.240	12	0.22	0.15	12	0.00	0.00	-	+	0.166	12	0.32	0.32	12	0.00	0.00	-	+	0.339
601C/601	2	12	11.16	4.51	12	10.53	2.60	-	+	0.552	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.21	0.21	12	0.84	0.39	-	-	0.153
598C/598	*2*	*12*	*20.32*	*4.27*	*12*	*13.23*	*3.64*	-	+	*0.133*	*12*	*0.21*	*0.21*	*12*	*0.00*	*0.00*	-	+	*0.339*	*12*	*0.21*	*0.21*	*12*	*0.00*	*0.00*	-	+	*0.339*
1522C/1522	2	11	6.03	1.64	10	3.01	1.12	-	+	0.227	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	1.60	1.12	10	1.00	1.00	-	+	0.459
Habitat Means			8.96	2.82		7.66	2.42		+			0.08	0.08		0.02	0.02		+			0.46	0.36		0.36	0.28		+	
Fisher's		Power	---			Power-50%	---	P-value		0.080	Power	0.012			Power-50%	0.007	P-value		0.308	Power	0.035			Power-50%	0.111	P-value		0.313
Stouffer's		Power	---			Power-50%	---	P-value		0.024	Power	---			Power-50%	---	P-value		0.089	Power	0.054			Power-50%	0.184	P-value		0.142
4825C/1424	3	8	0.00	0.00	12	1.05	0.94	-	-	0.220	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	3	9	1.26	1.10	10	3.38	3.38	-	-	0.856	9	0.00	0.00	10	0.25	0.25	-	-	0.343	9	0.28	0.28	10	0.00	0.00	-	+	0.347
601C/601	3	9	2.51	1.24	10	5.76	3.44	-	-	0.672	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.14	0.14	10	0.38	0.27	-	-	0.533
598C/598	3	11	3.19	1.32	12	1.36	0.89	-	+	0.125	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	3	11	2.74	0.84	6	0.00	0.00	-	+	0.000	11	0.00	0.00	6	0.42	0.42	-	-	0.363	11	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			1.94	0.88		2.34	1.72		-			0.00	0.00		0.14	0.14		-			0.08	0.08		0.08	0.06		+	
Fisher's		Power	0.004			Power-50%	0.626	P-value		0.588x	Power	---			Power-50%	---	P-value		0.350	Power	0.000			Power-50%	---	P-value		0.601 y
Stouffer's		Power	0.000			Power-50%	0.725	P-value		0.941	Power	---			Power-50%	---	P-value		0.245	Power	0.006			Power-50%	---	P-value		0.361

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Nucella lamellosa								Littorinidae								Mollusca							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.21	0.21	12	0.73	0.62	-	-	0.489	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.21	0.21	12	0.00	0.00	-	+	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.11	0.11	12	0.00	0.00	-	+	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.10	0.10		0.14	0.12		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.732	Power	0.000			Power-50%	---	P-value		0.403 y	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	---			Power-50%	---	P-value		0.500	Power	0.013			Power-50%	---	P-value		0.124	Power	---			Power-50%	---	P-value		0.500
4825C/1424	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.23	0.23	12	0.00	0.00	-	+	0.341	11	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.11	0.11	12	0.00	0.00	-	+	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	2	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.06	0.06		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.339	Power	---			Power-50%	---	P-value		0.732
Stouffer's		*Power*	---			*Power-50%*	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.191	Power	---			Power-50%	---	P-value		0.500
4825C/1424	3	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
601C/601	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
598C/598	3	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	3	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.6. Algal Percent Cover. Substrates. Prince William Sound. Sheltered Rocky. May 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Rock								Oiled Rock								Sand							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	66.27	9.77	12	75.23	9.41	-	-	0.449	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	1	12	46.88	9.62	12	82.20	4.95	-	-	0.008	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	1	12	83.56	6.22	12	88.13	5.81	-	-	0.343	12	0.00	0.00	12	0.21	0.21	-	-	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	1	12	90.23	2.80	12	94.17	1.57	-	-	0.332	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	1	12	53.55	10.00	12	56.53	11.24	-	-	0.862	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			68.12	7.68		79.24	6.60		-			0.00	0.00		0.04	0.04		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.011	Power	---		Power-50%		---	P-value		0.523	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.006	Power	---		Power-50%		---	P-value		0.412	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	11	39.67	9.01	12	54.49	10.60	-	-	0.363	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	2	12	33.76	8.53	12	70.22	7.83	-	-	0.005	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	2	12	48.24	5.71	12	58.34	9.75	-	-	0.436	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	2	12	66.68	5.84	12	51.05	9.38	-	+	0.245	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	2	11	36.61	7.53	10	18.00	6.90	-	+	0.070	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			45.00	7.30		50.42	8.90		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.040x	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.137		Power-50%		0.929	P-value		0.296	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	8	4.54	1.98	12	2.41	1.23	-	+	0.367	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	3	9	7.66	3.71	10	57.65	12.96	-	-	0.004	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
601C/601	3	9	24.46	6.73	10	22.26	10.83	-	+	0.535	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
598C/598	3	11	20.58	5.77	12	20.11	7.70	-	+	0.655	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	3.53	2.04	12	0.00	0.00	-	+	0.056
1522C/1522	3	11	24.22	6.15	6	12.10	7.22	-	+	0.112	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			16.30	4.88		22.92	7.98		+			0.00	0.00		0.00	0.00		o			0.70	0.40		0.00	0.00		+	
Fisher's		Power	0.244		Power-50%		0.963	P-value		0.171xy	Power	---		Power-50%		---	P-value		0.732	Power	0.005		Power-50%		0.009	P-value		0.241
Stouffer's		Power	0.000		Power-50%		0.939	P-value		0.714	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.069

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Shell Fragments								Water								Zostera/Phyllospadix							
Site Pair	[illegible]	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	12	0.00	0.00	~	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	1	12	0.00	0.00	12	0.00	0.00	~	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	1	12	0.00	0.00	12	0.00	0.00	~	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	1	12	0.00	0.00	12	0.00	0.00	~	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.00	0.00	12	0.00	0.00	~	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	11	0.00	0.00	12	0.00	0.00	~	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	2	12	0.00	0.00	12	0.00	0.00	~	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	2	12	0.00	0.00	12	0.00	0.00	~	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	2	12	*0.00*	*0.00*	12	*0.00*	*0.00*	~	o	*1.000*	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	2	11	0.00	0.00	10	0.00	0.00	~	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	8	0.16	0.16	12	0.00	0.00	~	+	0.351	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	3	9	0.00	0.00	10	0.00	0.00	~	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
601C/601	3	9	*0.00*	*0.00*	10	*0.00*	*0.00*	~	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
598C/598	3	11	0.00	0.00	12	0.00	0.00	~	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	3	11	7.62	5.41	6	0.00	0.00	~	+	0.176	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			1.56	1.12		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.006		Power-50%		0.005	P-value		0.253	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.341	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.6. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. May 1991. Undisturbed. (Continued.)

		Sand and Mud								Total Substrate															
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV D P
4825C/1424	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	66.27	9.77	12	75.23	9.41	-	-	0.449							
453C/453	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	46.88	9.62	12	82.20	4.95	-	-	0.008							
601C/601	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	83.56	6.22	12	88.34	5.82	-	-	0.328							
598C/598	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	90.23	2.80	12	94.17	1.57	-	-	0.332							
1522C/1522	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	53.55	10.00	12	56.53	11.24	-	-	0.862							
Habitat Means			0.00	0.00		0.00	0.00		o			68.12	7.68		79.28	6.60		-								
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.011	Power	---		Power-50%		---	P-value	
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.006	Power	---		Power-50%		---	P-value	
4825C/1424	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	39.67	9.01	12	54.49	10.60	-	-	0.363							
453C/453	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	33.76	8.53	12	70.22	7.83	-	-	0.005							
601C/601	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	48.24	5.71	12	58.34	9.75	-	-	0.436							
598C/598	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	66.68	5.84	12	51.05	9.38	-	+	0.245							
1522C/1522	2	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	36.61	7.53	10	18.00	6.90	-	+	0.070							
Habitat Means			0.00	0.00		0.00	0.00		o			45.00	7.30		50.42	8.90		-								
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.040x	Power	---		Power-50%		---	P-value	
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.148		Power-50%		0.928	P-value		0.296	Power	---		Power-50%		---	P-value	
4825C/1424	3	8	0.16	0.16	12	0.00	0.00	-	+	0.351	8	4.70	1.93	12	2.41	1.23	-	-	0.259							
453C/453	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	7.66	3.71	10	57.65	12.96	-	-	0.004							
601C/601	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	24.46	6.73	10	22.26	10.83	-	+	0.535							
598C/598	3	11	3.53	2.04	12	0.00	0.00	-	+	0.056	11	24.11	6.14	12	20.11	7.70	-	-	0.429							
1522C/1522	3	11	7.62	5.41	6	0.00	0.00	-	+	0.176	11	31.83	7.64	6	12.10	7.22	-	-	0.053							
Habitat Means			2.26	1.52		0.00	0.00		+			18.56	5.20		22.92	7.98		+								
Fisher's		Power	---		Power-50%		---	P-value		0.051	Power	---		Power-50%		---	P-value		0.073xy	Power	---		Power-50%		---	P-value	
Stouffer's		Power	---		Power-50%		---	P-value		0.029	Power	0.001		Power-50%		0.926	P-value		0.577	Power	---		Power-50%		---	P-value	

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.7. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. June 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Algal Diversity Index (a)								Algal Taxa Richness (b)								Total Algae							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.09	0.04	12	0.03	0.02	-	+	0.138	12	1.75	0.28	12	0.58	0.23	-	+	0.004	12	38.23	7.42	12	14.80	6.78	-	+	0.016
453C/453	1	12	0.14	0.05	15	0.05	0.03	-	+	0.115	12	2.00	0.43	15	0.73	0.21	-	+	0.009	12	55.53	10.33	15	11.43	5.09	-	-	0.000
601C/601	1	12	0.00	0.00	14	0.08	0.04	-	-	0.042	12	0.42	0.15	14	0.86	0.23	-	-	0.136	12	12.62	5.94	14	11.97	5.67	-	-	0.867
598C/598	1	12	0.03	0.02	14	0.02	0.02	-	+	0.811	12	0.67	0.22	14	0.43	0.17	-	+	0.402	12	6.57	3.94	14	4.64	3.35	-	-	0.616
1522C/1522	1	12	0.04	0.03	15	0.04	0.03	-	-	0.883	12	1.08	0.15	15	0.80	0.28	-	+	0.423	12	47.93	10.98	15	23.75	8.94	-	-	0.049
Habitat Means			0.06	0.03		0.04	0.03		+			1.18	0.25		0.68	0.22		+			32.16	7.70		13.32	5.98		-	
Fisher's	Power		0.376		Power-50%		0.734	P-value		0.170x	Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.000
Stouffer's	Power		0.092		Power-50%		0.772	P-value		0.234	Power	---		Power-50%		---	P-value		0.012	Power	---		Power-50%		---	P-value		0.001
4825C/1424	2	12	0.36	0.05	12	0.32	0.05	-	+	0.531	12	3.08	0.34	12	3.25	0.41	-	-	0.756	12	56.67	9.75	12	54.59	8.53	-	+	0.888
453C/453	2	12	0.27	0.05	15	0.18	0.04	-	+	0.151	12	3.83	0.65	15	2.20	0.34	-	-	0.027	12	65.22	8.30	15	30.67	8.02	-	+	0.012
601C/601	2	12	0.22	0.06	14	0.17	0.05	-	+	0.517	12	2.17	0.46	14	1.79	0.35	-	-	0.509	12	32.10	7.52	14	30.19	8.51	-	+	0.856
598C/598	2	12	0.10	0.06	13	0.09	0.03	-	+	0.936	12	1.33	0.41	13	1.38	0.18	-	-	0.908	12	16.78	7.38	13	29.43	9.34	-	-	0.260
1522C/1522	2	12	0.18	0.06	14	0.23	0.06	-	-	0.486	12	2.17	0.44	14	2.93	0.51	-	-	0.277	12	54.38	10.08	14	59.74	8.45	-	-	0.585
Habitat Means			0.23	0.05		0.20	0.05		+			2.52	0.46		2.31	0.36		-			45.04	8.62		40.92	8.56		+	
Fisher's	Power		0.312		Power-50%		1.000	P-value		0.246	Power	0.102		Power-50%		0.999	P-value		0.620xy	Power	0.176		Power-50%		0.882	P-value		0.148
Stouffer's	Power		0.228		Power-50%		0.992	P-value		0.179	Power	0.022		Power-50%		1.000	P-value		0.834	Power	0.084		Power-50%		0.772	P-value		0.341
4825C/1424	3	10	0.55	0.05	12	0.43	0.05	-	+	0.104	10	4.70	0.56	12	4.83	0.51	-	-	0.861	10	82.51	7.35	12	95.84	1.18	-	-	0.188
453C/453	3	11	0.43	0.07	14	0.30	0.08	-	+	0.244	11	5.00	0.85	14	2.86	0.68	-	+	0.058	11	96.15	1.62	14	46.70	10.94	-	-	0.000
601C/601	3	9	0.26	0.08	10	0.37	0.09	-	-	0.394	9	2.67	0.75	10	3.40	0.58	-	-	0.444	9	52.52	12.23	10	64.26	11.75	-	-	0.419
598C/598	3	11	0.42	0.05	12	0.34	0.05	-	+	0.287	11	3.91	0.46	12	3.42	0.51	-	+	0.485	11	64.56	10.12	12	65.33	9.82	-	-	0.916
1522C/1522	3	10	0.36	0.06	12	0.40	0.06	-	-	0.607	10	3.20	0.61	12	4.67	0.62	-	-	0.111	10	63.13	11.65	12	90.33	4.36	-	-	0.024
Habitat Means			0.40	0.06		0.37	0.06		+			3.90	0.64		3.83	0.58		-			71.78	8.60		72.48	7.62		-	
Fisher's	Power		0.494		Power-50%		1.000	P-value		0.126	Power	0.132		Power-50%		1.000	P-value		0.350xy	Power	---		Power-50%		---	P-value		0.037x
Stouffer's	Power		---		Power-50%		---	P-value		0.086	Power	0.021		Power-50%		1.000	P-value		0.845	Power	0.030		Power-50%		0.973	P-value		0.831

(a) Modified Shannon Index.
(b) Taxa richness calculations are explained in the methods.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Invertebrates								Rock								Perennials (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	3.96	2.05	12	14.07	7.51	-	-	0.186	12	56.88	7.49	12	71.15	9.96	-	-	0.280	12	33.24	7.80	12	13.13	5.62	-	+	0.036
453C/453	1	12	6.57	3.33	15	2.43	0.88	-	+	0.520	12	37.92	10.73	15	86.17	5.24	-	-	0.000	12	52.19	10.02	15	10.09	4.63	-	+	0.000
601C/601	1	12	10.01	3.96	14	2.60	1.11	-	+	0.100	12	77.42	6.48	14	85.45	6.10	-	-	0.283	12	12.62	5.94	14	9.83	5.57	-	+	0.926
598C/598	1	12	4.39	1.16	14	6.79	1.79	-	-	0.397	12	89.08	4.32	14	88.57	4.77	-	+	0.982	12	5.00	3.78	14	4.56	3.36	-	+	0.953
1522C/1522	1	12	3.86	1.64	15	8.76	2.91	-	-	0.197	12	48.25	10.21	15	67.51	9.21	-	-	0.104	12	46.99	11.27	15	23.25	8.82	-	+	0.056
Habitat Means			5.78	2.44		6.94	2.84		-			61.92	7.84		79.80	7.06		-			30.00	7.76		12.18	5.60		-	
Fisher's	Power		0.154		Power-50%		0.988	P-value		0.206	Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.000
Stouffer's	Power		0.029		Power-50%		0.990	P-value		0.349	Power	---		Power-50%		---	P-value		0.004	Power	---		Power-50%		---	P-value		0.004
4825C/1424	2	12	7.71	5.30	12	14.28	6.17	-	-	0.323	12	34.48	8.04	12	31.16	8.34	-	+	0.744	12	29.18	5.03	12	37.92	9.13	-	-	0.573
453C/453	2	12	13.34	5.03	15	2.59	0.79	-	+	0.057	12	21.37	6.98	15	66.59	7.67	-	-	0.000	12	57.50	7.37	15	22.93	6.00	-	+	0.002
601C/601	2	12	18.77	7.40	14	10.99	2.13	-	+	0.677	12	49.18	7.19	14	58.84	7.14	-	-	0.403	12	20.84	6.56	14	13.04	3.97	-	+	0.436
598C/598	2	12	16.26	3.81	13	19.05	7.22	-	-	0.938	12	66.78	7.21	13	51.55	8.86	-	+	0.227	12	11.05	4.43	13	24.05	8.58	-	-	0.167
1522C/1522	2	12	14.28	7.90	14	10.54	3.87	-	+	0.461	12	31.27	8.61	14	29.74	7.90	-	+	0.910	12	38.56	9.51	14	34.65	8.31	-	+	0.957
Habitat Means			14.08	5.88		11.50	4.04		+			40.64	7.60		47.58	7.98		+			31.44	6.58		26.52	7.20		+	
Fisher's	Power		0.280		Power-50%		0.928	P-value		0.180	Power	0.057		Power-50%		0.964	P-value		0.594xy	Power	---		Power-50%		---	P-value		0.036
Stouffer's	Power		0.238		Power-50%		0.818	P-value		0.144	Power	0.004		Power-50%		0.886	P-value		0.865	Power	0.191		Power-50%		0.878	P-value		0.243
4825C/1424	3	10	1.00	1.00	12	0.32	0.23	-	+	0.784	10	11.26	4.56	12	3.86	1.14	-	+	0.247	10	22.26	5.64	12	56.05	6.41	-	-	0.001
453C/453	3	11	0.23	0.23	14	1.07	0.63	-	-	0.315	11	3.65	1.43	14	52.24	10.99	-	-	0.000	11	62.39	8.68	14	27.33	8.05	-	+	0.011
601C/601	3	9	7.40	3.45	10	8.50	3.40	-	-	0.916	9	39.82	9.77	10	27.26	10.19	-	+	0.403	9	15.30	6.01	10	31.14	7.15	-	-	0.062
598C/598	3	11	4.55	2.09	12	5.94	2.80	-	-	0.845	11	30.93	9.00	12	28.76	8.32	-	+	0.829	11	14.68	3.28	12	18.45	5.69	-	-	0.852
1522C/1522	3	10	7.26	4.50	12	5.32	3.65	-	+	0.462	10	20.51	8.90	12	4.38	2.23	-	+	0.030	10	17.51	5.37	12	25.94	7.70	-	-	0.434
Habitat Means			4.10	2.26		4.22	2.14		-			21.24	6.74		23.32	6.56		+			26.44	5.80		31.78	7.02		-	
Fisher's	Power		0.127		Power-50%		0.731	P-value		0.580	Power	---		Power-50%		---	P-value		0.062xy	Power	---		Power-50%		---	P-value		0.003x
Stouffer's	Power		0.161		Power-50%		0.435	P-value		0.302	Power	0.134		Power-50%		0.742	P-value		0.817	Power	0.130		Power-50%		0.826	P-value		0.565

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.7. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. June 1991. Undisturbed. (Continued.)

		Annuals (A)								Ephemerals (AE)																			
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	
4825C/1424	1	12	5.02	2.49	12	1.67	1.67	-	+	0.068	12	2.31	0.90	12	1.67	1.67	-	+	0.180										
453C/453	1	12	3.34	1.43	15	1.34	1.16	-	-	0.125	12	0.42	0.28	15	1.25	1.16	-	-	0.788										
601C/601	1	12	0.00	0.00	14	2.14	1.23	-	-	0.060	12	0.00	0.00	14	1.07	1.07	-	-	0.336										
598C/598	1	12	1.57	0.89	14	0.09	0.09	-	-	0.094	12	0.00	0.00	14	0.09	0.09	-	-	0.336										
1522C/1522	1	12	0.94	0.83	15	0.50	0.36	-	-	0.738	12	0.83	0.83	15	0.50	0.36	-	+	0.970										
Habitat Means			2.16	1.12		1.14	0.92		-			0.70	0.40		0.94	0.90		-											
Fisher's		Power	---		Power-50%		---	P-value		0.025x	Power	0.033		Power-50%		0.317	P-value		0.396	Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		0.023	Power	0.088		Power-50%		0.311	P-value		0.179	Power	---		Power-50%		---	P-value			
4825C/1424	2	12	27.51	6.72	12	16.68	4.12	-	+	0.263	12	23.34	5.87	12	15.53	4.14	-	+	0.343										
453C/453	2	12	7.72	2.33	15	7.75	4.29	-	-	0.614	12	5.95	1.84	15	7.01	4.32	-	-	0.644										
601C/601	2	12	11.27	3.04	14	17.15	6.53	-	+	0.715	12	9.80	3.03	14	16.16	6.69	-	-	0.706										
598C/598	2	12	5.73	3.74	13	5.39	2.59	-	+	0.693	12	4.28	2.99	13	4.62	2.59	-	-	0.729										
1522C/1522	2	12	15.84	5.24	14	25.09	7.76	-	+	0.434	12	15.01	4.89	14	21.44	7.66	-	-	0.623										
Habitat Means			13.60	4.18		14.44	5.06		+			11.68	3.72		12.94	5.08		+											
Fisher's		Power	0.023		Power-50%		0.917	P-value		0.570	Power	0.013		Power-50%		0.954	P-value		0.525	Power	---		Power-50%		---	P-value			
Stouffer's		Power	0.024		Power-50%		0.821	P-value		0.479	Power	0.014		Power-50%		0.866	P-value		0.284	Power	---		Power-50%		---	P-value			
4825C/1424	3	10	60.26	5.29	12	39.79	6.29	-	+	0.027	10	53.89	5.19	12	31.88	6.91	-	+	0.023										
453C/453	3	11	33.76	8.65	14	19.38	6.41	-	+	0.111	11	19.79	5.76	14	11.53	4.07	-	+	0.184										
601C/601	3	9	37.23	13.24	10	33.13	9.67	-	+	0.826	9	34.18	12.20	10	32.76	9.58	-	+	0.931										
598C/598	3	11	49.89	9.24	12	46.88	10.12	-	+	0.943	11	46.70	9.32	12	45.01	9.84	-	+	0.958										
1522C/1522	3	10	45.63	9.67	12	64.39	7.03	-	-	0.101	10	40.88	9.73	12	57.32	8.28	-	-	0.165										
Habitat Means			45.36	9.22		40.72	7.90		+			39.10	8.44		35.70	7.74		+											
Fisher's		Power	---		Power-50%		---	P-value		0.059	Power	---		Power-50%		---	P-value		0.077	Power	---		Power-50%		---	P-value			
Stouffer's		Power	0.224		Power-50%		0.948	P-value		0.179	Power	0.231		Power-50%		0.920	P-value		0.214	Power	---		Power-50%		---	P-value			

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.8. Algal Percent Cover. Chlorophyta. Prince William Sound. Sheltered Rocky. June 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group: Bladed Greens								Bladed Greens (AE) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.11	0.11	12	0.00	0.00	-	+	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	1	12	0.21	0.21	15	1.17	1.17	-	-	0.629	12	0.00	0.00	15	1.17	1.17	-	-	0.334	12	0.00	0.00	15	1.17	1.17	-	-	0.334
601C/601	1	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
598C/598	1	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.94	0.83	15	0.00	0.00	-	+	0.215	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000
Habitat Means			0.24	0.22		0.24	0.24		+			0.00	0.00		0.24	0.24		-			0.00	0.00		0.24	0.24		-	
Fisher's		Power	0.002		Power-50%		0.004	P-value		0.317 y	Power	---		Power-50%		---	P-value		0.521	Power	---		Power-50%		---	P-value		0.521
Stouffer's		Power	0.012		Power-50%		0.043	P-value		0.447	Power	---		Power-50%		---	P-value		0.304	Power	---		Power-50%		---	P-value		0.304
4825C/1424	2	12	6.78	3.71	12	8.45	3.68	-	-	0.641	12	1.67	1.28	12	3.75	3.10	-	-	0.608	12	1.67	1.28	12	3.75	3.10	-	-	0.608
453C/453	2	12	1.99	0.82	15	1.51	0.62	-	+	0.733	12	1.05	0.55	15	0.84	0.51	-	+	0.706	12	1.05	0.55	15	0.84	0.51	-	+	0.706
601C/601	2	12	2.93	1.24	14	0.36	0.24	-	+	0.070	12	0.21	0.21	14	0.00	0.00	-	+	0.339	12	0.21	0.21	14	0.00	0.00	-	+	0.339
598C/598	2	12	1.04	1.04	13	0.00	0.00	-	+	0.339	12	0.32	0.32	13	0.00	0.00	-	+	0.339	12	0.32	0.32	13	0.00	0.00	-	+	0.339
1522C/1522	2	12	6.46	2.94	14	0.81	0.45	-	+	0.073	12	1.47	1.35	14	0.00	0.00	-	+	0.234	12	1.47	1.35	14	0.00	0.00	-	+	0.234
Habitat Means			3.84	1.92		2.24	1.00		+			0.96	0.76		0.92	0.72		+			0.96	0.76		0.92	0.72		+	
Fisher's		Power	---		Power-50%		---	P-value		0.033	Power	0.142		Power-50%		0.432	P-value		0.164	Power	0.139		Power-50%		0.434	P-value		0.164
Stouffer's		Power	---		Power-50%		---	P-value		0.049	Power	---		Power-50%		---	P-value		0.090	Power	---		Power-50%		---	P-value		0.090
4825C/1424	3	10	36.13	5.31	12	22.41	4.88	-	+	0.057	10	5.01	2.58	12	5.11	2.59	-	-	0.612	10	5.01	2.58	12	5.11	2.59	-	-	0.612
453C/453	3	11	13.88	4.87	14	5.81	2.67	-	+	0.093	11	12.40	4.72	14	3.66	1.52	-	+	0.039	11	12.40	4.72	14	3.66	1.52	-	+	0.039
601C/601	3	9	16.27	8.01	10	13.76	5.38	-	+	0.977	9	0.70	0.48	10	5.25	3.15	-	-	0.222	9	0.70	0.48	10	5.25	3.15	-	-	0.222
598C/598	3	11	28.97	7.77	12	23.85	7.61	-	+	0.615	11	2.05	1.24	12	1.98	0.81	-	+	0.742	11	2.05	1.24	12	1.98	0.81	-	+	0.742
1522C/1522	3	10	13.51	4.04	12	14.80	4.27	-	-	0.759	10	2.01	1.06	12	10.52	4.16	-	-	0.096	10	2.01	1.06	12	10.52	4.16	-	-	0.096
Habitat Means			21.76	6.00		16.14	4.98		+			4.44	2.02		5.32	2.46		-			4.44	2.02		5.32	2.46		-	
Fisher's		Power	---		Power-50%		---	P-value		0.055	Power	0.283		Power-50%		0.972	P-value		0.182x	Power	0.281		Power-50%		0.963	P-value		0.182x
Stouffer's		Power	---		Power-50%		---	P-value		0.068	Power	0.121		Power-50%		0.915	P-value		0.742	Power	0.111		Power-50%		0.894	P-value		0.742

(a) Kornmannia, Monostroma, Ulva and Ulvaria.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Fine Filamentous Greens								Acrosiphonia sp. (A)								Chaetomorpha/Rhizoclonium (A) (a)							
Site Pair	Mvd	N	C	SE	m	O	E	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.11	0.11	12	0.00	0.00	-	+	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	1	12	0.21	0.21	15	0.00	0.00	-	+	0.339	12	0.21	0.21	15	0.00	0.00	-	+	0.339	12	0.00	0.00	15	0.00	0.00	-	o	1.000
601C/601	1	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
598C/598	1	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.11	0.11	15	0.00	0.00	-	+	0.339	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.11	0.11	15	0.00	0.00	-	-	0.339
Habitat Means			0.08	0.08		0.00	0.00		+			0.04	0.04		0.00	0.00		+			0.02	0.02		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.201	Power	---		Power-50%		---	P-value		0.523	Power	---		Power-50%		---	P-value		0.523
Stouffer's		Power	---		Power-50%		---	P-value		0.201	Power	---		Power-50%		---	P-value		0.306	Power	---		Power-50%		---	P-value		0.421
4825C/1424	2	12	1.25	0.65	12	1.57	1.02	-	-	0.832	12	0.00	0.00	12	0.11	0.11	-	-	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	2	12	0.95	0.54	15	0.67	0.38	-	+	0.587	12	0.32	0.23	15	0.33	0.33	-	-	0.727	12	0.00	0.00	15	0.00	0.00	-	o	1.000
601C/601	2	12	2.19	1.23	14	0.18	0.18	-	+	0.152	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
598C/598	2	12	0.73	0.73	13	0.00	0.00	-	+	0.339	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	0.00	0.00	13	0.00	0.00	-	o	1.000
1522C/1522	2	12	4.90	2.70	14	0.81	0.45	-	+	0.157	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			2.02	1.16		0.66	0.42		+			0.06	0.04		0.08	0.08		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.068	Power	0.000		Power-50%		0.000	P-value		0.464	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.052	Power	0.000		Power-50%		0.115	P-value		0.375	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	10	22.64	6.10	12	17.30	4.91	-	+	0.430	10	0.00	0.00	12	0.21	0.21	-	-	0.339	10	1.00	0.76	12	0.00	0.00	-	-	0.185
453C/453	3	11	1.48	1.08	14	2.14	1.48	-	-	0.814	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.00	0.00	14	0.00	0.00	-	o	1.000
601C/601	3	9	15.29	7.83	10	8.51	2.83	-	+	0.743	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
598C/598	3	11	26.60	7.96	12	21.88	7.33	-	+	0.715	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.12	0.12	12	0.00	0.00	-	-	0.341
1522C/1522	3	10	11.52	3.93	12	4.28	1.45	-	+	0.133	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			15.50	5.38		10.82	3.60		+			0.00	0.00		0.04	0.04		-			0.22	0.18		0.00	0.00		-	
Fisher's		Power	0.414		Power-50%		0.903	P-value		0.193	Power	---		Power-50%		---	P-value		0.523	Power	0.002		Power-50%		0.004	P-value		0.256
Stouffer's		Power	0.401		Power-50%		0.752	P-value		0.256	Power	---		Power-50%		---	P-value		0.447	Power	0.000		Power-50%		0.000	P-value		0.178

(a) Genera not seperated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.8. Algal Percent Cover. Chlorophyta. Prince William Sound. Sheltered Rocky. June 1991. Undisturbed. (Continued.)

		Cladophora sp. (AE)								Ulothrix sp. (AE)								Urospora sp. (AE)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.11	0.11	12	0.00	0.00	-	-	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	1	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000
601C/601	1	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
598C/598	1	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000
Habitat Means			0.02	0.02		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.523	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.447	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	12	1.25	0.65	12	1.47	1.03	-	-	0.992	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	2	12	0.63	0.53	15	0.33	0.23	-	+	0.715	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000
601C/601	2	12	2.19	1.23	14	0.18	0.18	-	+	0.152	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
598C/598	2	12	0.73	0.73	13	0.00	0.00	-	+	0.339	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	0.00	0.00	13	0.00	0.00	-	o	1.000
1522C/1522	2	12	4.90	2.70	14	0.81	0.45	-	+	0.157	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			1.94	1.16		0.56	0.38		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.070	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.059	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	10	21.64	6.38	12	17.09	4.97	-	+	0.565	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	3	11	1.48	1.08	14	2.14	1.48	-	-	0.814	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.00	0.00	14	0.00	0.00	-	o	1.000
601C/601	3	9	15.29	7.83	10	8.51	2.83	-	+	0.743	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
598C/598	3	11	26.49	7.92	12	21.88	7.33	-	+	0.719	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	3	10	11.52	3.93	12	4.28	1.45	-	+	0.133	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			15.28	5.42		10.78	3.62		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.382		Power-50%		0.930	P-value		0.222	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.376		Power-50%		0.760	P-value		0.267	Power	---		Power-50%		---	P-value		0.500	Power	--		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Tubular and Saccate Greens								Blidingia/Enteromorpha (AE) (a)															
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000									
453C/453	1	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000									
601C/601	1	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000									
598C/598	1	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000									
1522C/1522	1	12	0.83	0.83	15	0.00	0.00	-	+	0.339	12	0.83	0.83	15	0.00	0.00	-	+	0.339									
Habitat Means			0.16	0.16		0.00	0.00		-			0.16	0.16		0.00	0.00		+										
Fisher's		Power	---		Power-50%		---	P-value		0.523	Power	---		Power-50%		---	P-value		0.523	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.421	Power	---		Power-50%		---	P-value		0.421	Power	---		Power-50%		---	P-value		
4825C/1424	2	12	3.86	3.09	12	3.13	2.48	-	+	0.832	12	3.86	3.09	12	3.13	2.48	-	+	0.832									
453C/453	2	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000									
601C/601	2	12	0.52	0.53	14	0.18	0.18	-	+	0.674	12	0.52	0.53	14	0.18	0.18	-	+	0.674									
598C/598	2	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	0.00	0.00	13	0.00	0.00	-	o	1.000									
1522C/1522	2	12	0.11	0.11	14	0.00	0.00	-	+	0.339	12	0.11	0.11	14	0.00	0.00	-	+	0.339									
Habitat Means			0.90	0.74		0.66	0.54		+			0.90	0.74		0.66	0.54		+										
Fisher's		Power	0.008		Power-50%		0.023	P-value		0.419	Power	0.005		Power-50%		0.024	P-value		0.419	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.012		Power-50%		0.000	P-value		0.373	Power	0.010		Power-50%		0.000	P-value		0.373	Power	---		Power-50%		---	P-value		
4825C/1424	3	10	8.51	3.13	12	0.00	0.00	-	+	0.018	10	8.51	3.13	12	0.00	0.00	-	+	0.018									
453C/453	3	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.00	0.00	14	0.00	0.00	-	o	1.000									
601C/601	3	9	0.28	0.28	10	0.00	0.00	-	-	0.347	9	0.28	0.28	10	0.00	0.00	-	+	0.347									
598C/598	3	11	0.35	0.25	12	0.00	0.00	-	+	0.173	11	0.35	0.25	12	0.00	0.00	-	+	0.173									
1522C/1522	3	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	0.00	0.00	-	o	1.000									
Habitat Means			1.84	0.74		0.00	0.00		+			1.84	0.74		0.00	0.00		+										
Fisher's		Power	---		Power-50%		---	P-value		0.024	Power	---		Power-50%		---	P-value		0.024	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.054	Power	---		Power-50%		---	P-value		0.054	Power	---		Power-50%		---	P-value		

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.9. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. June 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta							Morphological Group: Bladed Browns							Total Fucus gardneri (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	35.42	8.08	12	10.43	6.27	-	+	0.009	12	33.24	7.80	12	8.76	4.86	-	+	0.008	12	33.24	7.80	12	8.76	4.86	-	+	0.008
453C/453	1	12	46.67	10.45	15	10.09	4.66	-	+	0.001	12	45.63	10.44	15	10.01	4.64	-	+	0.001	12	45.63	10.44	15	10.01	4.64	-	+	0.001
601C/601	1	12	12.62	5.94	14	10.90	5.68	-	+	0.983	12	12.62	5.94	14	9.83	5.57	-	+	0.926	12	12.62	5.94	14	9.83	5.57	-	+	0.926
598C/598	1	12	4.90	3.69	14	4.64	3.35	-	+	0.914	12	4.90	3.69	14	4.56	3.36	-	+	0.943	12	4.90	3.69	14	4.56	3.36	-	+	0.943
1522C/1522	1	12	45.84	11.63	15	23.25	8.76	-	+	0.088	12	45.84	11.63	15	22.75	8.65	-	+	0.081	12	45.84	11.63	15	22.75	8.65	-	+	0.081
Habitat Means			29.08	7.96		11.86	5.78		+			28.42	7.88		11.20	5.44		+			28.42	7.88		11.20	5.44		+	
Fisher's		Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.000
Stouffer's		Power	---		Power-50%		---	P-value		0.006	Power	---		Power-50%		---	P-value		0.006	Power	---		Power-50%		---	P-value		0.006
4825C/1424	2	12	49.91	8.88	12	42.30	9.79	-	+	0.598	12	28.98	5.01	12	35.02	9.29	-	-	0.756	12	28.98	5.01	12	35.02	9.29	-	-	0.756
453C/453	2	12	53.02	7.41	15	26.35	7.56	-	+	0.021	12	48.55	6.68	15	20.52	6.08	-	+	0.005	12	48.55	6.68	15	20.52	6.08	-	-	0.005
601C/601	2	12	27.83	6.83	14	28.21	8.45	-	-	0.917	12	20.22	6.38	14	12.41	3.84	-	+	0.421	12	20.22	6.38	14	12.41	3.84	-	-	0.421
598C/598	2	12	15.74	6.47	13	28.66	9.43	-	-	0.234	12	11.05	4.43	13	24.05	8.58	-	-	0.167	12	11.05	4.43	13	24.05	8.58	-	-	0.167
1522C/1522	2	12	47.72	9.94	14	53.14	7.87	-	-	0.567	12	38.56	9.51	14	30.19	7.84	-	+	0.705	12	38.56	9.51	14	30.19	7.84	-	-	0.705
Habitat Means			38.82	7.90		35.74	8.64		-			29.50	6.40		24.44	7.12		+			29.50	6.40		24.44	7.12		-	
Fisher's		Power	0.025		Power-50%		0.925	P-value		0.523xy	Power	---		Power-50%		---	P-value		0.049	Power	---		Power-50%		---	P-value		0.049
Stouffer's		Power	0.007		Power-50%		0.866	P-value		0.593	Power	0.275		Power-50%		0.898	P-value		0.261	Power	0.268		Power-50%		0.887	P-value		0.261
4825C/1424	3	10	41.26	6.47	12	60.22	7.26	-	-	0.070	10	22.14	5.58	12	50.74	7.36	-	-	0.007	10	22.14	5.58	12	50.74	7.36	-	-	0.007
453C/453	3	11	48.65	9.51	14	30.19	8.52	-	+	0.122	11	42.52	9.18	14	22.95	7.86	-	+	0.091	11	42.52	9.18	14	22.95	7.86	-	+	0.091
601C/601	3	9	31.82	8.61	10	46.38	9.65	-	-	0.250	9	13.91	6.06	10	27.38	7.59	-	-	0.101	9	13.91	6.06	10	27.38	7.59	-	-	0.101
598C/598	3	11	33.09	4.92	12	39.81	7.48	-	-	0.625	11	12.86	3.33	12	18.24	5.66	-	-	0.654	11	12.86	3.33	12	18.24	5.66	-	-	0.654
1522C/1522	3	10	46.26	10.84	12	65.33	8.12	-	-	0.196	10	17.51	5.37	12	22.62	6.91	-	-	0.580	10	17.51	5.37	12	22.62	6.91	-	-	0.580
Habitat Means			40.24	8.06		48.38	8.22		-			21.78	5.92		28.38	7.10		-			21.78	5.92		28.38	7.10		-	
Fisher's		Power	---		Power-50%		---	P-value		0.056	Power	---		Power-50%		---	P-value		0.014x	Power	---		Power-50%		---	P-value		0.014x
Stouffer's		Power	0.209		Power-50%		0.926	P-value		0.365	Power	0.163		Power-50%		0.823	P-value		0.373	Power	0.173		Power-50%		0.816	P-value		0.373

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Adult Fucus gardneri (P) (> 2cm)							Juvenile Fucus gardneri (P) (<= 2cm)							Fucus Stipes (P) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	28.45	7.92	12	8.76	4.86	-	+	0.031	12	4.80	2.74	12	0.00	0.00	-	-	0.037	12	0.94	0.74	12	0.00	0.00	-	+	0.188
453C/453	1	12	45.32	10.37	15	9.67	4.50	-	+	0.001	12	0.32	0.23	15	0.34	0.19	-	-	0.885	12	0.00	0.00	15	0.00	0.00	-	o	1.000
601C/601	1	12	12.62	5.94	14	9.83	5.57	-	+	0.926	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
598C/598	1	12	4.69	3.70	14	4.20	3.35	-	+	0.899	12	0.21	0.21	14	0.36	0.24	-	-	0.652	12	0.00	0.00	14	0.00	0.00	-	o	1.000
1522C/1522	1	12	45.84	11.63	15	22.17	8.71	-	+	0.073	12	0.00	0.00	15	0.59	0.50	-	-	0.202	12	0.00	0.00	15	0.00	0.00	-	o	1.000
Habitat Means			27.38	7.90		10.94	5.42		+			1.06	0.62		0.26	0.18		-			0.18	0.14		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.000	Power	0.009		Power-50%		0.125	P-value		0.451xy	Power	0.000		Power-50%		0.000	P-value		0.417
Stouffer's		Power	---		Power-50%		---	P-value		0.006	Power	0.007		Power-50%		0.175	P-value		0.344	Power	0.000		Power-50%		0.000	P-value		0.427
4825C/1424	2	12	20.95	5.11	12	35.02	9.29	-	-	0.273	12	8.03	3.28	12	0.00	0.00	-	+	0.009	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	2	12	48.24	6.71	15	19.69	6.23	-	+	0.004	12	0.32	0.23	15	0.83	0.68	-	-	0.756	12	0.11	0.11	15	0.17	0.12	-	-	0.695
601C/601	2	12	18.97	6.33	14	12.41	3.84	-	+	0.506	12	1.25	0.72	14	0.00	0.00	-	+	0.091	12	0.00	0.00	14	0.00	0.00	-	o	1.000
598C/598	2	12	9.69	4.16	13	23.95	8.59	-	-	0.107	12	1.36	0.65	13	0.10	0.10	-	+	0.082	12	0.21	0.21	13	0.00	0.00	-	-	0.339
1522C/1522	2	12	36.89	9.72	14	30.19	7.84	-	+	0.881	12	1.67	0.77	14	0.00	0.00	-	+	0.043	12	0.11	0.11	14	0.00	0.00	-	-	0.339
Habitat Means			26.96	6.40		24.26	7.14		-			2.54	1.14		0.18	0.16		+			0.08	0.08		0.04	0.02		+	
Fisher's		Power	---		Power-50%		---	P-value		0.071	Power	---		Power-50%		---	P-value		0.000	Power	0.006		Power-50%		---	P-value		0.379
Stouffer's		Power	0.147		Power-50%		0.917	P-value		0.381	Power	---		Power-50%		---	P-value		0.009	Power	0.036		Power-50%		---	P-value		0.232
4825C/1424	3	10	19.02	4.82	12	50.74	7.36	-	-	0.002	10	3.13	1.58	12	0.00	0.00	-	+	0.049	10	0.25	0.25	12	0.00	0.00	-	+	0.343
453C/453	3	11	42.52	9.18	14	22.95	7.86	-	+	0.091	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.00	0.00	14	0.00	0.00	-	o	1.000
601C/601	3	9	13.91	6.06	10	27.38	7.59	-	-	0.101	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.28	0.28	10	0.00	0.00	-	+	0.347
598C/598	3	11	12.52	3.24	12	18.24	5.66	-	-	0.571	11	0.35	0.25	12	0.00	0.00	-	+	0.173	11	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	3	10	17.26	5.29	12	22.62	6.91	-	-	0.565	10	0.25	0.25	12	0.00	0.00	-	+	0.343	10	0.13	0.13	12	0.00	0.00	-	+	0.343
Habitat Means			21.04	5.72		28.38	7.10		-			0.76	0.44		0.00	0.00		+			0.14	0.14		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.006x	Power	---		Power-50%		---	P-value		0.046	Power	---		Power-50%		---	P-value		0.206
Stouffer's		Power	0.168		Power-50%		0.821	P-value		0.321	Power	---		Power-50%		---	P-value		0.063	Power	---		Power-50%		---	P-value		0.293

(a) Dead Fucus plants or stipes without blades.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.9. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. June 1991. Undisturbed. (Continued.)

Site Pair	Mvd	Petalonia/Punctaria (AE) (b) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Coarse Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Dictyosiphon sp. (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	1	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.63	0.33	15	0.00	0.00	-	+	0.082	12	0.00	0.00	15	0.00	0.00	-	o	1.000
601C/601	1	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
598C/598	1	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.12	0.06		0.00	0.00					0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	0.012		Power-50%		0.027	P-value		0.289	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.330	P-value		0.178	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	1.25	0.72	12	0.11	0.11	-	+	0.167	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	2	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.21	0.21	15	0.00	0.00	-	+	0.339	12	0.00	0.00	15	0.00	0.00	-	o	1.000
601C/601	2	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.73	0.45	14	0.00	0.00	-	+	0.095	12	0.00	0.00	14	0.00	0.00	-	o	1.000
598C/598	2	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	1.46	1.09	13	0.00	0.00	-	+	0.178	12	0.00	0.00	13	0.00	0.00	-	o	1.000
1522C/1522	2	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.63	0.63	14	2.14	1.33	-	-	0.363	12	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.86	0.62		0.44	0.28					0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.031	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.026	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.38	0.27	12	0.00	0.00	-	-	0.174	10	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	3	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.23	0.23	14	0.81	0.55	-	+	0.506	11	0.00	0.00	14	0.00	0.00	-	o	1.000
601C/601	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
598C/598	3	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	2.39	1.37	12	0.42	0.28	-	+	0.248	11	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	3	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	1.38	1.24	12	0.21	0.21	-	-	0.397	10	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.88	0.62		0.28	0.22		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	0.150		Power-50%		0.264	P-value		0.161	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.147		Power-50%		0.230	P-value		0.182	Power	---		Power-50%		---	P-value		0.500

(b) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Fine Filamentous Browns (AE) (b) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	2.20	0.83	12	1.67	1.67	-	+	0.186	12	2.20	0.83	12	1.67	1.67	-	+	0.186
453C/453	1	12	0.63	0.33	15	0.00	0.00	-	-	0.082	12	0.42	0.28	15	0.09	0.09	-	+	0.306	12	0.42	0.28	15	0.09	0.09	-	+	0.306
601C/601	1	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	1.07	1.07	-	-	0.336	12	0.00	0.00	14	1.07	1.07	-	-	0.336
598C/598	1	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.09	0.09	-	+	0.336	12	0.00	0.00	14	0.09	0.09	-	-	0.336
1522C/1522	1	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.50	0.36	-	-	0.171	12	0.00	0.00	15	0.50	0.36	-	-	0.171
Habitat Means			0.12	0.06		0.00	0.00		+			0.52	0.22		0.70	0.68		-			0.52	0.22		0.70	0.68		-	
Fisher's		Power	0.012		Power-50%		0.025	P-value		0.289	Power	0.062		Power-50%		0.213	P-value		0.248	Power	0.063		Power-50%		0.195	P-value		0.248
Stouffer's		Power	0.001		Power-50%		0.347	P-value		0.178	Power	0.088		Power-50%		0.236	P-value		0.299	Power	0.098		Power-50%		0.206	P-value		0.299
4825C/1424	2	12	1.25	0.72	12	0.11	0.11	-	+	0.167	12	16.57	3.69	12	7.20	2.61	-	+	0.085	12	16.57	3.69	12	7.20	2.61	-	-	0.085
453C/453	2	12	0.21	0.21	15	0.00	0.00	-	+	0.339	12	4.28	1.66	15	5.83	3.77	-	-	0.703	12	4.28	1.66	15	5.83	3.77	-	-	0.703
601C/601	2	12	0.73	0.45	14	0.00	0.00	-	+	0.095	12	6.88	2.55	14	15.81	6.57	-	-	0.422	12	6.88	2.55	14	15.81	6.57	-	-	0.422
598C/598	2	12	1.46	1.09	13	0.00	0.00	-	+	0.178	12	3.23	2.04	13	4.62	2.59	-	-	0.596	12	3.23	2.04	13	4.62	2.59	-	-	0.596
1522C/1522	2	12	0.63	0.63	14	2.14	1.33	-	-	0.363	12	8.55	3.82	14	20.63	7.56	-	-	0.213	12	8.55	3.82	14	20.63	7.56	-	-	0.213
Habitat Means			0.86	0.62		0.44	0.28		+			7.92	2.76		10.80	4.64		-			7.92	2.76		10.80	4.64		-	
Fisher's		Power	---		Power-50%		---	P-value		0.031	Power	0.072		Power-50%		0.982	P-value		0.273x	Power	0.064		Power-50%		0.981	P-value		0.273x
Stouffer's		Power	---		Power-50%		---	P-value		0.026	Power	0.061		Power-50%		0.891	P-value		0.207	Power	0.059		Power-50%		0.902	P-value		0.207
4825C/1424	3	10	0.38	0.27	12	0.00	0.00	-	+	0.174	10	18.77	2.87	12	8.44	6.99	-	+	0.017	10	18.77	2.87	12	8.44	6.99	-	+	0.017
453C/453	3	11	0.23	0.23	14	0.81	0.55	-	-	0.506	11	5.92	3.40	14	5.72	2.45	-	+	0.974	11	5.92	3.40	14	5.72	2.45	-	+	0.974
601C/601	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	17.92	8.54	10	19.00	6.52	-	-	0.895	9	17.92	8.54	10	19.00	6.52	-	-	0.895
598C/598	3	11	2.39	1.37	12	0.42	0.28	-	+	0.248	11	17.85	4.76	12	21.16	5.03	-	-	0.746	11	17.85	4.76	12	21.16	5.03	-	-	0.746
1522C/1522	3	10	1.38	1.24	12	0.21	0.21	-	+	0.397	10	27.38	9.19	12	42.52	9.57	-	-	0.254	10	27.38	9.19	12	42.52	9.57	-	-	0.254
Habitat Means			0.88	0.62		0.28	0.22		+			17.58	5.76		19.36	6.12		-			17.58	5.76		19.36	6.12		-	
Fisher's		Power	0.163		Power-50%		0.270	P-value		0.161	Power	0.053		Power-50%		0.977	P-value		0.526x	Power	0.047		Power-50%		0.977	P-value		0.526x
Stouffer's		Power	0.156		Power-50%		0.239	P-value		0.182	Power	0.028		Power-50%		0.871	P-value		0.432	Power	0.024		Power-50%		0.839	P-value		0.432

(a) Genera not separated.

(b) Elachista, Ectocarpus and Pilayella.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.9. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. June 1991. Undisturbed. (Continued.)

		Morphological Group: Saccate Browns								Leathesia/Colpomenia (A) (a)								Soranthera ulvoidea (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	1	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000
601C/601	1	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
598C/598	1	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.732	Power		---		Power-50%		---	P-value		0.732	Power		---		Power-50%		---	P-value	0.732
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value	0.500
4825C/1424	2	12	2.92	2.92	12	0.00	0.00	-	+	0.339	12	2.92	2.92	12	0.00	0.00	-	·	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	2	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000
601C/601	2	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
598C/598	2	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	0.00	0.00	13	0.00	0.00	-	o	1.000
1522C/1522	2	12	0.00	0.00	14	0.18	0.18	-	-	0.336	12	0.00	0.00	14	0.00	0.00	-	·	1.000	12	0.00	0.00	14	0.18	0.18	-	-	0.336
Habitat Means			0.58	0.58		0.04	0.04		-			0.58	0.58		0.00	0.00		·			0.00	0.00		0.04	0.04		-	
Fisher's	Power		---		Power-50%		---	P-value		0.619 y	Power		---		Power-50%		---	P-value		0.523	Power		---		Power-50%		---	P-value	0.521
Stouffer's	Power		---		Power-50%		---	P-value		0.473	Power		---		Power-50%		---	P-value		0.447	Power		---		Power-50%		---	P-value	0.421
4825C/1424	3	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	3	11	0.00	0.00	14	0.71	0.55	-	-	0.181	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.00	0.00	14	0.71	0.55	-	-	0.181
601C/601	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
598C/598	3	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	3	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.14	0.12		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.14	0.12		-	
Fisher's	Power		0.000		Power-50%		---	P-value		0.411	Power		---		Power-50%		---	P-value		0.732	Power		0.000		Power-50%		---	P-value	0.411
Stouffer's	Power		0.000		Power-50%		---	P-value		0.239	Power		---		Power-50%		---	P-value		0.500	Power		0.000		Power-50%		---	P-value	0.239

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Crustose Browns								Ralfsia/Petroderma (P) (a)															
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000									
453C/453	1	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000									
601C/601	1	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000									
598C/598	1	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000									
1522C/1522	1	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's	Power		---		Power-50%		---	P-value		0.732	Power		---		Power-50%		---	P-value		0.732	Power		---		Power-50%		---	P-value	
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value	
4825C/1424	2	12	0.21	0.21	12	0.00	0.00	-	·	0.339	12	0.21	0.21	12	0.00	0.00	-	+	0.339									
453C/453	2	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000									
601C/601	2	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000									
598C/598	2	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	0.00	0.00	13	0.00	0.00	-	o	1.000									
1522C/1522	2	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000									
Habitat Means			0.04	0.04		0.00	0.00		+			0.04	0.04		0.00	0.00		+										
Fisher's	Power		---		Power-50%		---	P-value		0.523	Power		---		Power-50%		---	P-value		0.523	Power		---		Power-50%		---	P-value	
Stouffer's	Power		---		Power-50%		---	P-value		0.447	Power		---		Power-50%		---	P-value		0.447	Power		---		Power-50%		---	P-value	
4825C/1424	3	10	0.00	0.00	12	1.04	1.04	-	-	0.339	10	0.00	0.00	12	1.04	1.04	-	-	0.339									
453C/453	3	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.00	0.00	14	0.00	0.00	-	o	1.000									
601C/601	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000									
598C/598	3	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000									
1522C/1522	3	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.20	0.20		-			0.00	0.00		0.20	0.20		-										
Fisher's	Power		---		Power-50%		---	P-value		0.523	Power		---		Power-50%		---	P-value		0.523	Power		---		Power-50%		---	P-value	
Stouffer's	Power		---		Power-50%		---	P-value		0.447	Power		---		Power-50%		---	P-value		0.447	Power		---		Power-50%		---	P-value	

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.10. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. June 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group: Bladed Reds								Bangia sp. (AE)							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
4825C/1424	1	12	2.71	2.49	12	4.37	3.75	-	-	0.778	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	1	12	8.65	5.31	15	0.17	0.12	-	+	0.135	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000
601C/601	1	12	0.00	0.00	14	1.07	0.73	-	+	0.105	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
598C/598	1	12	1.68	0.87	14	0.00	0.00	-	+	0.032	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
1522C/1522	1	12	1.15	1.15	15	0.51	0.30	-	+	0.990	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000
Habitat Means			2.86	1.98		1.24	0.98		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.095	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.020	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	12	0.00	0.00	12	3.87	1.56	-	-	0.008	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	2	12	10.22	3.81	15	2.84	1.57	-	+	0.033	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000
601C/601	2	12	1.37	0.76	14	1.61	0.66	-	-	0.693	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
598C/598	2	12	0.00	0.00	13	0.77	0.77	-	-	0.337	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	0.00	0.00	13	0.00	0.00	-	o	1.000
1522C/1522	2	12	0.21	0.21	14	5.81	2.63	-	-	0.019	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			2.36	0.96		2.98	1.46		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.004x	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.253		Power-50%		0.614	P-value		0.287	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	10	5.14	2.44	12	13.24	3.01	-	-	0.066	10	0.00	0.00	12	2.30	1.51	-	-	0.080	10	0.00	0.00	12	1.25	1.25	-	-	0.339
453C/453	3	11	33.65	10.14	14	10.72	5.46	-	+	0.033	11	9.90	7.23	14	0.09	0.09	-	+	0.095	11	0.00	0.00	14	0.00	0.00	-	o	1.000
601C/601	3	9	4.46	2.85	10	4.14	1.68	-	+	0.690	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
598C/598	3	11	2.51	1.23	12	1.67	1.45	-	+	0.353	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	3	10	3.38	2.71	12	10.22	4.39	-	-	0.102	10	0.00	0.00	12	0.83	0.64	-	-	0.183	10	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			9.84	3.86		7.98	3.22		-			1.98	1.44		0.64	0.44		-			0.00	0.00		0.26	0.26		-	
Fisher's		Power	0.163		Power-50%		0.912	P-value		0.174x	Power	0.004		Power-50%		0.003	P-value		0.169xy	Power	---		Power-50%		---	P-value		0.523
Stouffer's		Power	---		Power-50%		---	P-value		0.089	Power	0.000		Power-50%		0.127	P-value		0.643	Power	---		Power-50%		---	P-value		0.447

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Gigartinaceae Group (P) (a)								Palmaria spp. (A)								Phycodrys riggii (A)							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
4825C/1424	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	1	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000
601C/601	1	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
598C/598	1	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	2	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000
601C/601	2	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
598C/598	2	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	0.00	0.00	13	0.00	0.00	-	o	1.000
1522C/1522	2	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	10	0.00	0.00	12	0.11	0.11	-	-	0.339	10	0.00	0.00	12	0.63	0.63	-	-	0.339	10	0.00	0.00	12	0.21	0.21	-	-	0.339
453C/453	3	11	1.14	0.78	14	0.00	0.00	-	+	0.169	11	8.31	7.21	14	0.09	0.09	-	+	0.191	11	0.00	0.00	14	0.00	0.00	-	o	1.000
601C/601	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
598C/598	3	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	3	10	0.00	0.00	12	0.11	0.11	-	-	0.339	10	0.00	0.00	12	0.11	0.11	-	-	0.339	10	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.22	0.16		0.04	0.04		-			1.66	1.44		0.16	0.16		-			0.00	0.00		0.04	0.04		-	
Fisher's		Power	0.000		Power-50%		0.002	P-value		0.436 y	Power	0.000		Power-50%		0.000	P-value		0.434 y	Power	---		Power-50%		---	P-value		0.523
Stouffer's		Power	0.000		Power-50%		0.113	P-value		0.655	Power	0.000		Power-50%		0.108	P-value		0.642	Power	---		Power-50%		---	P-value		0.447

(a) Chondrus, Iridaea, Mastocarpus and Rhodoglossum.

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.10. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. June 1991. Undisturbed. (Continued.)

		Porphyra sp. (A)								Rhodymenia pertusa (A)								Tokidadendron kurilensis (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	1	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000
601C/601	1	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
598C/598	1	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---		P-value		0.732	Power	---		Power-50%	---		P-value		0.732	Power	---		Power-50%	---		P-value		0.732
Stouffer's		Power	---		Power-50%	---		P-value		0.500	Power	---		Power-50%	---		P-value		0.500	Power	---		Power-50%	---		P-value		0.500
4825C/1424	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	2	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000
601C/601	2	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
598C/598	2	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	0.00	0.00	13	0.00	0.00	-	o	1.000
1522C/1522	2	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---		P-value		0.732	Power	---		Power-50%	---		P-value		0.732	Power	---		Power-50%	---		P-value		0.732
Stouffer's		Power	---		Power-50%	---		P-value		0.500	Power	---		Power-50%	---		P-value		0.500	Power	---		Power-50%	---		P-value		0.500
4825C/1424	3	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	0.11	0.11	-	-	0.339
453C/453	3	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.46	0.35	14	0.00	0.00	-	-	0.183
601C/601	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
598C/598	3	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	3	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	0.63	0.63	-	-	0.339
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.10	0.08		0.14	0.14		-	
Fisher's		Power	---		Power-50%	---		P-value		0.732	Power	---		Power-50%	---		P-value		0.732	Power	0.000		Power-50%	0.000		P-value		0.435
Stouffer's		Power	---		Power-50%	---		P-value		0.500	Power	---		Power-50%	---		P-value		0.500	Power	0.000		Power-50%	0.069		P-value		0.646

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Coarse Filamentous Reds								Articulate Coralline Algae (A)								Cryptosiphonia woodii (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	2.71	2.49	12	0.00	0.00	-	+	0.234	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	1	12	4.79	2.66	15	0.09	0.09	-	+	0.109	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000
601C/601	1	12	0.00	0.00	14	1.07	0.73	-	-	0.105	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
598C/598	1	12	1.68	0.87	14	0.00	0.00	-	+	0.032	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.00	0.00	15	0.51	0.30	-	-	0.090	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000
Habitat Means			1.84	1.22		0.34	0.22		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---		P-value		0.046x	Power	---		Power-50%	---		P-value		0.732	Power	---		Power-50%	---		P-value		0.732
Stouffer's		Power	---		Power-50%	---		P-value		0.025	Power	---		Power-50%	---		P-value		0.500	Power	---		Power-50%	---		P-value		0.500
4825C/1424	2	12	0.00	0.00	12	1.57	1.16	-	-	0.123	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	2	12	9.48	3.88	15	2.84	1.57	-	+	0.056	12	0.11	0.11	15	0.00	0.00	-	-	0.339	12	0.43	0.33	15	0.25	0.18	-	+	0.724
601C/601	2	12	1.37	0.76	14	1.61	0.66	-	-	0.693	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.63	0.63	14	0.00	0.00	-	+	0.339
598C/598	2	12	0.00	0.00	13	0.77	0.77	-	-	0.337	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	0.00	0.00	13	0.00	0.00	-	o	1.000
1522C/1522	2	12	0.21	0.21	14	5.54	2.65	-	-	0.024	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.21	0.21	14	0.99	0.72	-	-	0.339
Habitat Means			2.22	0.98		2.46	1.40		-			0.02	0.02		0.00	0.00		+			0.24	0.22		0.26	0.18		+	
Fisher's		Power	---		Power-50%	---		P-value		0.028x	Power	---		Power-50%	---		P-value		0.523	Power	0.001		Power-50%	0.018		P-value		0.558 y
Stouffer's		Power	0.193		Power-50%	0.574		P-value		0.308	Power	---		Power-50%	---		P-value		0.306	Power	0.012		Power-50%	0.171		P-value		0.417
4825C/1424	3	10	4.14	2.05	12	3.23	1.51	-	+	0.956	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	4.01	1.97	12	0.11	0.11	-	+	0.073
453C/453	3	11	20.46	7.90	14	5.36	3.66	-	+	0.036	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	1.72	1.26	14	0.99	0.70	-	+	0.573
601C/601	3	9	4.46	2.85	10	4.14	1.68	-	+	0.690	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	3.07	2.61	10	0.38	0.38	-	+	0.287
598C/598	3	11	2.51	1.23	12	1.36	1.36	-	+	0.221	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.69	0.39	12	1.15	1.15	-	-	0.786
1522C/1522	3	10	3.25	2.71	12	6.05	2.00	-	-	0.161	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	3.25	2.71	12	2.82	1.34	-	+	0.805
Habitat Means			6.98	3.36		4.04	2.06		+			0.00	0.00		0.00	0.00		o			2.56	1.80		1.10	0.74		+	
Fisher's		Power	---		Power-50%	---		P-value		0.093	Power	---		Power-50%	---		P-value		0.732	Power	0.349		Power-50%	0.897		P-value		0.105
Stouffer's		Power	---		Power-50%	---		P-value		0.031	Power	---		Power-50%	---		P-value		0.500	Power	0.266		Power-50%	0.834		P-value		0.263

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.10. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. June 1991. Undisturbed. (Continued.)

Site Pair	Mvd	Endocladia muricata (P) N	C	SE	N	O	SE	CV	D	P	Gloiopeltis furcata (A) N	C	SE	N	O	SE	CV	D	P	Neorhodomela/Rhodomela (P) (a) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	2.71	2.49	12	0.00	0.00	-	+	0.234	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	1	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	1.98	1.39	15	0.09	0.09	-	+	0.235	12	0.42	0.42	15	0.00	0.00	-	+	0.339
601C/601	1	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	1.07	0.73	-	-	0.105	12	0.00	0.00	14	0.00	0.00	-	o	1.000
598C/598	1	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	1.57	0.89	14	0.00	0.00	-	+	0.057	12	0.00	0.00	14	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.09	0.09	-	-	0.334
Habitat Means			0.00	0.00		0.00	0.00		o			1.26	0.96		0.24	0.16		+			0.08	0.08		0.02	0.02		-	
Fisher's		Power ---			Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.070	Power	---		Power-50%		---	P-value		0.618 y
Stouffer's		Power ---			Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.029	Power	---		Power-50%		---	P-value		0.621
4825C/1424	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.52	0.53	-	-	0.339	12	0.00	0.00	12	0.73	0.62	-	-	0.204
453C/453	2	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.17	0.17	-	-	0.334	12	0.32	0.23	15	0.00	0.00	-	+	0.172
601C/601	2	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.11	0.11	14	0.99	0.62	-	-	0.214	12	0.00	0.00	14	0.09	0.09	-	-	0.336
598C/598	2	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	0.00	0.00	13	0.77	0.77	-	-	0.337	12	0.00	0.00	13	0.00	0.00	-	o	1.000
1522C/1522	2	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.27	0.19	-	-	0.171	12	0.00	0.00	14	0.09	0.09	-	-	0.336
Habitat Means			0.00	0.00		0.00	0.00		o			0.02	0.02		0.56	0.46		-			0.06	0.04		0.18	0.16		-	
Fisher's		Power ---			Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.029	Power	0.008		Power-50%		0.000	P-value		0.209
Stouffer's		Power ---			Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.025	Power	0.004		Power-50%		0.107	P-value		0.550
4825C/1424	3	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	0.21	0.21	-	-	0.339	10	0.13	0.13	12	0.52	0.42	-	-	0.500
453C/453	3	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	1.04	0.47	14	0.00	0.00	-	-	0.023
601C/601	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
598C/598	3	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	3	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	1.98	1.50	-	-	0.181
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.04	0.04		-			0.22	0.12		0.50	0.38		-	
Fisher's		Power ---			Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.523	Power	0.001		Power-50%		0.125	P-value		0.409x
Stouffer's		Power ---			Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.447	Power	0.000		Power-50%		0.542	P-value		0.797

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Odonthalia floccosa (P) N	C	SE	N	O	SE	CV	D	P	Ptilota/Neoptilota (P) (b) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Saccate Reds N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	1	12	2.40	1.71	15	0.00	0.00	-	+	0.172	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.11	0.11	15	0.00	0.00	-	+	0.339
601C/601	1	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
598C/598	1	12	0.11	0.11	14	0.00	0.00	-	-	0.339	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.00	0.00	15	0.42	0.29	-	-	0.167	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000
Habitat Means			0.50	0.36		0.08	0.06		+			0.00	0.00		0.00	0.00		o			0.02	0.02		0.00	0.00		+	
Fisher's		Power 0.003			Power-50%		0.006	P-value		0.327	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.523
Stouffer's		Power 0.003			Power-50%		0.167	P-value		0.119	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.306
4825C/1424	2	12	0.00	0.00	12	0.32	0.32	-	-	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	2	12	8.66	3.64	15	2.42	1.51	-	+	0.038	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.74	0.43	15	0.00	0.00	-	+	0.091
601C/601	2	12	0.63	0.53	14	0.54	0.39	-	+	0.913	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
598C/598	2	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	0.00	0.00	13	0.00	0.00	-	o	1.000
1522C/1522	2	12	0.00	0.00	14	4.20	2.64	-	-	0.098	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.09	0.09	-	-	0.336
Habitat Means			1.86	0.82		1.48	0.96		+			0.00	0.00		0.00	0.00		o			0.14	0.08		0.02	0.02		+	
Fisher's		Power 0.097			Power-50%		0.082	P-value		0.330x	Power	---		Power-50%		---	P-value		0.732	Power	0.000		Power-50%		0.002	P-value		0.381
Stouffer's		Power 0.007			Power-50%		0.412	P-value		0.258	Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.218	P-value		0.243
4825C/1424	3	10	0.00	0.00	12	2.40	1.56	-	-	0.107	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.25	0.25	12	0.52	0.29	-	-	0.439
453C/453	3	11	15.58	7.79	14	4.38	3.10	-	+	0.084	11	2.16	2.16	14	0.00	0.00	-	+	0.341	11	0.12	0.12	14	0.00	0.00	-	+	0.341
601C/601	3	9	1.39	1.39	10	3.76	1.60	-	-	0.119	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
598C/598	3	11	1.82	1.27	12	0.21	0.21	-	-	0.301	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.21	0.21	-	-	0.339
1522C/1522	3	10	0.00	0.00	12	1.26	0.51	-	-	0.021	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.13	0.13	12	0.94	0.67	-	-	0.355
Habitat Means			3.76	2.10		2.42	1.40		-			0.44	0.44		0.00	0.00		+			0.10	0.10		0.32	0.24		-	
Fisher's		Power ---			Power-50%		---	P-value		0.021xy	Power	---		Power-50%		---	P-value		0.524	Power	0.070		Power-50%		---	P-value		0.299
Stouffer's		Power 0.112			Power-50%		0.506	P-value		0.744	Power	---		Power-50%		---	P-value		0.307	Power	0.051		Power-50%		---	P-value		0.296

(b) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.10. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. June 1991. Undisturbed. (Continued.)

		Halosaccion glandiforme (A)								Halosaccion spp. (A)								Morphological Group: Fine Filamentous Reds							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	1	12	0.11	0.11	15	0.00	0.00	-	+	0.339	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000
601C/601	1	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
598C/598	1	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000
Habitat Means			0.02	0.02		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.523	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.306	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.42	0.28	-	-	0.166
453C/453	2	12	0.74	0.43	15	0.00	0.00	-	+	0.091	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000
601C/601	2	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
598C/598	2	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	0.00	0.00	13	0.00	0.00	-	o	1.000
1522C/1522	2	12	0.00	0.00	14	0.09	0.09	-	-	0.336	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.14	0.08		0.02	0.02		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.08	0.06		-	
Fisher's		Power	0.001		Power-50%		0.006	P-value		0.381	Power	---		Power-50%		---	P-value		0.732	Power	0.001		Power-50%		---	P-value		0.396
Stouffer's		Power	0.000		Power-50%		0.227	P-value		0.243	Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		---	P-value		0.424
4825C/1424	3	10	0.25	0.25	12	0.52	0.29	-	-	0.439	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.75	0.53	12	5.95	2.29	-	-	0.066
453C/453	3	11	0.12	0.12	14	0.00	0.00	-	+	0.341	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	3.18	1.85	14	5.27	2.57	-	-	0.622
601C/601	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
598C/598	3	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.21	0.21	-	-	0.339	11	0.00	0.00	12	0.11	0.11	-	-	0.339
1522C/1522	3	10	0.00	0.00	12	0.94	0.67	-	-	0.173	10	0.13	0.13	12	0.00	0.00	-	+	0.343	10	0.00	0.00	12	2.40	2.08	-	-	0.211
Habitat Means			0.08	0.08		0.28	0.20		-			0.02	0.02		0.04	0.04		-			0.80	0.48		2.76	1.42		-	
Fisher's		Power	0.022		Power-50%		---	P-value		0.352	Power	---		Power-50%		---	P-value		0.620	Power	---		Power-50%		---	P-value		0.046
Stouffer's		Power	0.003		Power-50%		---	P-value		0.546	Power	---		Power-50%		---	P-value		0.293	Power	---		Power-50%		---	P-value		0.064

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Polysiphonia/Pterosiphonia (A) (a)								Morphological Group: Crustose Reds								Crustose Coralline Algae (P)							
Pa	Cv	N	C	SE	N	O	SE	m	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	4.37	3.75	-	-	0.211	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	1	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	3.75	3.75	15	0.09	0.09	-	+	0.403	12	0.00	0.00	15	0.00	0.00	-	o	1.000
601C/601	1	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
598C/598	1	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	1.15	1.15	15	0.00	0.00	-	-	0.339	12	0.00	0.00	15	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			1.00	1.00		0.90	0.78		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	0.000		Power-50%		---	P-value		0.463	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		---	P-value		0.320	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	12	0.00	0.00	12	0.42	0.28	-	-	0.166	12	0.00	0.00	12	1.88	1.35	-	-	0.173	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	2	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000
601C/601	2	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
598C/598	2	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	0.00	0.00	13	0.00	0.00	-	o	1.000
1522C/1522	2	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.18	0.18	-	-	0.336	12	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.08	0.06		-			0.00	0.00		0.42	0.32		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.001		Power-50%		---	P-value		0.396	Power	0.003		Power-50%		---	P-value		0.246	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.000		Power-50%		---	P-value		0.424	Power	0.000		Power-50%		---	P-value		0.349	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	10	0.75	0.53	12	5.95	2.29	-	-	0.066	10	0.00	0.00	12	1.25	1.25	-	-	0.339	10	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	3	11	3.18	1.85	14	5.27	2.57	-	-	0.622	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.00	0.00	14	0.00	0.00	-	o	1.000
601C/601	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
598C/598	3	11	0.00	0.00	12	0.11	0.11	-	-	0.339	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	3	10	0.00	0.00	12	2.40	2.08	-	-	0.211	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.80	0.48		2.76	1.42		-			0.00	0.00		0.26	0.26		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.046	Power	---		Power-50%		---	P-value		0.523	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.064	Power	---		Power-50%		---	P-value		0.447	Power	---		Power-50%		---	P-value		0.500

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.10. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. June 1991. Undisturbed. (Continued.)

		Hildenbrandia sp. (P)								Petrocelis (P)																
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	12	3.75	3.75	-	-	0.339	12	0.00	0.00	12	0.63	0.63	-	-	0.339									
453C/453	1	12	3.75	3.75	15	0.09	0.09	-	-	0.403	12	0.00	0.00	15	0.00	0.00	-	o	1.000									
601C/601	1	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000									
598C/598	1	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000									
1522C/1522	1	12	1.15	1.15	15	0.00	0.00	-	+	0.339	12	0.00	0.00	15	0.00	0.00	-	o	1.000									
Habitat Means			1.00	1.00		0.78	0.78		+			0.00	0.00		0.12	0.12		-										
Fisher's		Power	---		Power-50%		---	P-value		0.449	Power	---		Power-50%		---	P-value		0.523	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.305	Power	---		Power-50%		---	P-value		0.447	Power	---		Power-50%		---	P-value		
4825C/1424	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	1.88	1.35	-	-	0.173									
453C/453	2	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000									
601C/601	2	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000									
598C/598	2	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	0.00	0.00	13	0.00	0.00	-	o	1.000									
1522C/1522	2	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.18	0.18	-	-	0.336									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.42	0.32		-										
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	0.005		Power-50%		---	P-value		0.246	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		---	P-value		0.349	Power	---		Power-50%		---	P-value		
4825C/1424	3	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	1.25	1.25	-	-	0.339									
453C/453	3	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.00	0.00	14	0.00	0.00	-	o	1.000									
601C/601	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000									
598C/598	3	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000									
1522C/1522	3	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.26	0.26		-										
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.523	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.447	Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.11. Algal Percent Cover. Invertebrates. Prince William Sound. Sheltered Rocky. June 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Balanomorpha								Lottiidae								Mytilus							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	3.44	1.87	12	13.86	7.54	-	-	0.181	12	0.52	0.29	12	0.21	0.21	-	+	0.337	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	1	12	6.36	3.20	15	1.26	0.62	-	+	0.252	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000
601C/601	1	12	9.80	3.92	14	2.15	0.91	-	+	0.068	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.21	0.21	14	0.36	0.24	-	-	0.652
598C/598	1	12	4.39	1.16	14	6.25	1.79	-	-	0.504	12	0.00	0.00	14	0.36	0.36	-	-	0.336	12	0.00	0.00	14	0.28	0.18	-	-	0.336
1522C/1522	1	12	*3.86*	*1.64*	15	*8.34*	*2.70*	-	-	*0.206*	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.42	0.34	-	-	0.188
Habitat Means			5.58	2.36		6.40	2.70		-			0.10	0.06		0.12	0.12		-			0.04	0.04		0.20	0.14		-	
Fisher's		Power	0.108			Power-50%	0.993	P-value		0.256x	Power	0.000			Power-50%	.001	P-value		0.619	Power	0.045			Power-50%	---	P-value		0.207
Stouffer's		Power	0.007			Power-50%	0.988	P-value		0.525	Power	0.000			Power-50%	.000	P-value		0.270	Power	0.188			Power-50%	---	P-value		0.130
4825C/1424	2	12	7.08	4.69	12	13.87	6.18	-	-	0.354	12	0.00	0.00	12	0.21	0.21	-	-	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	2	12	10.63	5.22	15	2.43	0.81	-	+	0.208	12	0.11	0.11	15	0.09	0.09	-	+	0.876	12	2.61	1.64	15	0.69	0.09	-	+	0.134
601C/601	2	12	17.31	6.85	14	8.21	1.88	-	+	0.442	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	1.46	0.78	14	2.60	0.61	-	-	0.119
598C/598	2	12	15.53	3.68	13	17.89	6.71	-	-	0.919	12	0.21	0.21	13	0.00	0.00	-	+	0.339	12	0.52	0.29	13	1.15	1.15	-	-	0.885
1522C/1522	2	12	12.30	7.62	14	5.63	2.62	-	+	0.254	12	0.11	0.11	14	0.00	0.00	-	+	0.339	12	1.88	0.75	14	4.91	2.31	-	-	0.557
Habitat Means			12.56	5.62		9.60	3.64		+			0.08	0.08		0.06	0.06		+			1.30	0.70		1.76	0.84		-	
Fisher's		Power	*0.284*			Power-50%	*0.907*	P-value		*0.208*	Power	---			Power-50%	---	P-value		*0.397*	Power	*0.150*			Power-50%	*0.898*	P-value		*0.331*
Stouffer's		Power	0.306			Power-50%	0.815	P-value		0.191	Power	---			Power-50%	---	P-value		0.186	Power	0.058			Power-50%	0.885	P-value		0.580
4825C/1424	3	10	1.00	1.00	12	0.21	0.21	-	+	0.568	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	3	11	0.23	0.23	14	0.45	0.31	-	-	0.645	11	0.00	0.00	14	0.09	0.09	-	-	0.336	11	0.00	0.00	14	0.54	0.54	-	-	0.336
601C/601	3	9	7.40	3.45	10	4.88	2.49	-	+	0.593	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	3.63	1.91	-	-	0.083
598C/598	3	11	4.44	2.10	12	5.94	2.80	-	-	0.812	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	3	10	6.76	4.52	12	1.46	1.46	-	+	0.120	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.50	0.50	12	3.86	3.14	-	-	0.373
Habitat Means			3.96	2.26		2.60	1.46		+			0.00	0.00		0.02	0.02		-			0.10	0.10		1.60	1.10		-	
Fisher's		Power	0.155			Power-50%	0.668	P-value		0.260	Power	---			Power-50%	---	P-value		0.521	Power	---			Power-50%	---	P-value		0.098
Stouffer's		Power	0.129			Power-50%	0.407	P-value		0.461	Power	---			Power-50%	---	P-value		0.305	Power	0.364			Power-50%	---	P-value		0.136

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Nucella lamellosa								Littorinidae								Mollusca							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	1	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.21	0.21	15	1.17	0.73	-	-	0.299	12	0.00	0.00	15	0.00	0.00	-	o	1.000
601C/601	1	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.09	0.09	-	-	0.336	12	0.00	0.00	14	0.00	0.00	-	o	1.000
598C/598	1	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.04	0.04		0.26	0.16		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.732	Power	0.007			Power-50%	---	P-value		0.318	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	---			Power-50%	---	P-value		0.500	Power	0.016			Power-50%	---	P-value		0.220	Power	---			Power-50%	---	P-value		0.500
4825C/1424	2	12	0.63	0.63	12	0.21	0.21	-	+	0.714	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	2	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000
601C/601	2	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.28	0.18	-	-	0.336	12	0.00	0.00	14	0.00	0.00	-	o	1.000
598C/598	2	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	0.00	0.00	13	0.00	0.00	-	o	1.000
1522C/1522	2	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.12	0.12		0.04	0.04		+			*0.00*	*0.00*		*0.04*	*0.04*		-			*0.00*	*0.00*		*0.00*	*0.00*		o	
Fisher's		Power	---			Power-50%	---	P-value		0.667	Power	---			Power-50%	---	P-value		0.521	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	---			Power-50%	---	P-value		0.480	Power	---			Power-50%	---	P-value		0.412	Power	---			Power-50%	---	P-value		0.500
4825C/1424	3	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	3	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.00	0.00	14	0.00	0.00	-	o	1.000
601C/601	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
598C/598	3	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.12	0.12	12	0.00	0.00	-	+	0.341	11	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	3	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.02	0.02		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.524	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.230	Power	---			Power-50%	---	P-value		0.500

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.12. Algal Percent Cover. Substrates. Prince William Sound. Sheltered Rocky. June 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Rock								Oiled Rock								Sand							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	56.88	7.49	12	71.15	9.96	-	-	0.280	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	1	12	37.92	10.73	15	86.17	5.24	-	-	0.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000
601C/601	1	12	77.42	6.48	14	85.45	6.10	-	-	0.283	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
598C/598	1	12	89.08	4.32	14	88.57	4.77	-	+	0.982	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
1522C/1522	1	12	48.25	10.21	15	67.51	9.21	-	-	0.104	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000
Habitat Means			61.92	7.84		79.80	7.06		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.004	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	12	34.48	8.04	12	31.16	8.34	-	-	0.744	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	2	12	21.37	6.98	15	66.59	7.67	-	-	0.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000
601C/601	2	12	49.18	7.19	14	58.84	7.14	-	-	0.403	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
598C/598	2	12	66.78	7.21	13	51.55	8.86	-	+	0.227	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	0.00	0.00	13	0.00	0.00	-	o	1.000
1522C/1522	2	12	31.27	8.61	14	29.74	7.90	-	-	0.910	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			40.64	7.60		47.58	7.98		.			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.052		Power-50%		0.977	P-value		0.594xy	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.004		Power-50%		0.891	P-value		0.865	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	10	11.26	4.56	12	3.86	1.14	-	+	0.247	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	3	11	3.65	1.43	14	52.24	10.99	-	-	0.000	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.00	0.00	14	0.00	0.00	-	o	1.000
601C/601	3	9	39.82	9.77	10	27.26	10.19	-	+	0.403	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
598C/598	3	11	30.93	9.00	12	28.76	8.32	-	+	0.829	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	3	10	20.51	8.90	12	4.38	2.23	-	-	0.030	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	1.00	1.00	12	0.00	0.00	-	+	0.343
Habitat Means			21.24	6.74		23.32	6.56		+			0.00	0.00		0.00	0.00		o			0.20	0.20		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.062xy	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.526
Stouffer's		Power	0.126		Power-50%		0.781	P-value		0.817	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.422

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Shell Fragments								Water								Zostera/Phyllospadix							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	1	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000
601C/601	1	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
598C/598	1	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	12	1.15	1.04	12	0.00	0.00	-	+	0.224	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	2	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	0.00	0.00	15	0.00	0.00	-	o	1.000
601C/601	2	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
598C/598	2	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	0.00	0.00	13	0.00	0.00	-	o	1.000
1522C/1522	2	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.24	0.20		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.447	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.433	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	10	5.00	5.00	12	0.00	0.00	-	+	0.343	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	3	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.00	0.00	14	0.00	0.00	-	o	1.000
601C/601	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
598C/598	3	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	3	10	8.00	8.00	12	0.00	0.00	-	+	0.343	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			2.60	2.60		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.342	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.371	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.12. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. June 1991. Undisturbed. (Continued.)

		Sand and Mud								Total Substrate															
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	56.88	7.49	12	71.15	9.96	-	-	0.280									
453C/453	1	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	37.92	10.73	15	86.17	5.24	-	-	0.000									
601C/601	1	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	77.42	6.48	14	85.45	6.10	-	-	0.283									
598C/598	1	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	89.08	4.32	14	88.57	4.77	-	+	0.982									
1522C/1522	1	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	48.25	10.21	15	67.51	9.21	-	-	0.104									
Habitat Means			0.00	0.00		0.00	0.00		o			61.92	7.84		79.80	7.06		-										
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.004	Power	---		Power-50%		---	P-value		
4825C/1424	2	12	1.15	1.04	12	0.00	0.00	-	+	0.224	12	35.63	8.18	12	31.16	8.34	-	+	0.687									
453C/453	2	12	0.00	0.00	15	0.00	0.00	-	o	1.000	12	21.37	6.98	15	66.59	7.67	-	-	0.000									
601C/601	2	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	49.18	7.19	14	58.84	7.14	-	-	0.403									
598C/598	2	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	66.78	7.21	13	51.55	8.86	-	+	0.227									
1522C/1522	2	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	31.27	8.61	14	29.74	7.90	-	+	0.910									
Habitat Means			0.24	0.20		0.00	0.00		-			40.86	7.64		47.58	7.98		+										
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.447	Power	0.053		Power-50%		0.968	P-value		0.579xy	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.433	Power	0.004		Power-50%		0.884	P-value		0.863	Power	---		Power-50%		---	P-value		
4825C/1424	3	10	5.00	5.00	12	0.00	0.00	-	+	0.343	10	16.26	6.87	12	3.86	1.14	-	+	0.187									
453C/453	3	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	3.65	1.43	14	52.24	10.99	-	-	0.000									
601C/601	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	39.82	9.77	10	27.26	10.19	-	+	0.403									
598C/598	3	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	30.93	9.00	12	28.76	8.32	-	+	0.829									
1522C/1522	3	10	9.00	7.95	12	0.00	0.00	-	+	0.233	10	29.51	10.12	12	4.38	2.23	-	+	0.004									
Habitat Means			2.80	2.60		0.00	0.00		+			24.04	7.44		23.32	6.56		+										
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.286	Power	---		Power-50%		---	P-value		0.014x	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.352	Power	0.225		Power-50%		0.835	P-value		0.768	Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.13. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. August 1992. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Algal Diversity Index (a)							Algal Taxa Richness (b)							Total Algae						
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.05	0.05	5	0.06	0.06	-	-	0.854	6	1.33	0.33	5	0.60	0.40	-	+	0.189	6	44.58	11.57	5	10.50	9.30	-	-	0.033
453C/453	1	6	0.04	0.04	6	0.00	0.00	-	+	0.363	6	1.17	0.17	6	0.67	0.21	-	+	0.092	6	50.42	12.85	6	13.75	6.18	-	-	0.027
601C/601	1	6	0.00	0.00	6	0.02	0.02	-	-	0.363	6	0.50	0.22	6	0.50	0.34	-	o	1.000	6	9.17	7.26	6	18.75	14.34	-	-	0.698
598C/598	1	6	0.05	0.05	6	0.00	0.00	-	+	0.363	6	0.33	0.33	6	0.17	0.17	-	+	0.664	6	0.83	0.83	6	0.42	0.42	-	-	0.814
1522C/1522	1	6	0.00	0.00	6	0.06	0.04	-	-	0.191	6	0.67	0.21	6	1.33	0.21	-	-	0.049	6	47.50	17.15	6	59.17	17.41	-	-	0.501
Habitat Means			0.03	0.03		0.03	0.03		-			0.80	0.25		0.65	0.27		+			30.50	9.96		20.54	9.52		+	
Fisher's		Power	0.022		Power-50%		---	P-value		0.388	Power	0.430		Power-50%		1.000	P-value		0.151x	Power	---		Power-50%		---	P-value		0.029
Stouffer's		Power	0.012		Power-50%		---	P-value		0.752	Power	0.116		Power-50%		0.998	P-value		0.158	Power	---		Power-50%		---	P-value		0.078
4825C/1424	2	6	0.03	0.02	5	0.00	0.00	-	+	0.175	6	1.33	0.21	5	0.60	0.24	-	+	0.048	6	50.42	16.63	5	27.50	15.23	-	+	0.268
453C/453	2	5	0.23	0.10	6	0.09	0.06	-	+	0.236	5	2.20	0.58	6	1.33	0.61	-	+	0.340	5	57.00	11.02	6	26.25	15.81	-	+	0.204
601C/601	2	6	0.05	0.05	6	0.03	0.03	-	+	0.702	6	1.00	0.26	6	0.67	0.33	-	+	0.448	6	40.00	15.63	6	29.17	17.72	-	+	0.509
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.50	0.22	6	0.50	0.22	-	o	1.000	6	5.42	2.92	6	36.67	18.79	-	-	0.200
1522C/1522	2	6	0.01	0.01	4	0.10	0.10	-	-	0.451	6	0.83	0.31	4	1.75	0.75	-	-	0.231	6	35.83	12.81	4	63.13	14.70	-	-	0.190
Habitat Means			0.07	0.04		0.04	0.04		+			1.17	0.32		0.97	0.43		+			37.72	11.78		36.56	16.44		+	
Fisher's		Power	0.189		Power-50%		0.439	P-value		0.216	Power	0.487		Power-50%		1.000	P-value		0.111	Power	0.221		Power-50%		0.892	P-value		0.303
Stouffer's		Power	0.147		Power-50%		0.518	P-value		0.227	Power	0.227		Power-50%		0.999	P-value		0.240	Power	0.082		Power-50%		0.899	P-value		0.612
4825C/1424	3	4	0.38	0.15	5	0.23	0.15	-	+	0.512	4	3.50	1.04	5	2.40	0.98	-	+	0.470	4	55.63	18.01	5	86.00	10.42	-	-	0.108
453C/453	3	2	0.19	0.19	4	0.14	0.10	-	+	0.795	2	2.50	1.50	4	1.50	0.65	-	+	0.495	2	51.25	3.75	4	33.75	12.60	-	+	0.441
601C/601	3	4	0.18	0.11	6	0.15	0.09	-	+	0.809	4	2.00	0.71	6	1.83	0.54	-	+	0.854	4	66.25	10.33	6	65.00	14.75	-	-	0.926
598C/598	3	6	0.22	0.07	6	0.16	0.04	-	+	0.509	6	2.00	0.37	6	2.00	0.26	-	o	1.000	6	51.25	11.08	6	49.58	18.63	-	+	0.998
1522C/1522	3	6	0.14	0.09	4	0.42	0.15	-	-	0.130	6	1.33	0.56	4	4.00	1.29	-	-	0.063	6	41.25	16.74	4	75.00	14.75	-	-	0.147
Habitat Means			0.22	0.12		0.22	0.11		+			2.27	0.83		2.35	0.74		+			53.16	11.98		61.88	14.24		+	
Fisher's		Power	0.151		Power-50%		0.874	P-value		0.508	Power	0.095		Power-50%		0.832	P-value		0.547xy	Power	0.093		Power-50%		0.704	P-value		0.797 y
Stouffer's		Power	0.073		Power-50%		0.897	P-value		0.315	Power	0.025		Power-50%		0.868	P-value		0.453	Power	0.054		Power-50%		0.758	P-value		0.537

(a) Modified Shannon Index.
(b) Taxa richness calculations are explained in the methods.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Invertebrates							Rock							Perennials (P)						
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	2.92	2.92	5	44.50	19.91	-	-	0.042	6	52.50	10.80	5	45.00	21.62	-	+	0.777	6	42.08	10.36	5	10.50	9.30	-	-	0.033
453C/453	1	6	1.67	0.83	6	0.83	0.83	-	+	0.368	6	47.92	13.17	6	85.42	6.66	-	-	0.029	6	50.42	12.85	6	13.75	6.18	-	-	0.027
601C/601	1	6	25.00	11.09	6	7.50	4.23	-	+	0.100	6	65.83	13.13	6	73.75	12.94	-	-	0.664	6	9.17	7.26	6	18.33	14.31	-	-	0.712
598C/598	1	6	12.92	6.14	6	18.75	3.08	-	-	0.245	6	86.25	6.94	6	80.83	3.00	-	-	0.282	6	0.83	0.83	6	0.42	0.42	-	-	0.814
1522C/1522	1	6	12.50	8.01	6	22.92	12.92	-	-	0.457	6	40.00	10.99	6	17.50	13.60	-	-	0.168	6	47.50	17.15	6	57.08	17.69	-	-	0.542
Habitat Means			11.00	5.78		18.90	8.18		-			58.50	11.00		60.50	11.56		-			30.00	9.72		20.02	9.58		-	
Fisher's		Power	0.220		Power-50%		0.863	P-value		0.118	Power	0.225		Power-50%		0.914	P-value		0.313xy	Power	---		Power-50%		---	P-value		0.028
Stouffer's		Power	0.043		Power-50%		0.928	P-value		0.315	Power	0.082		Power-50%		0.934	P-value		0.540	Power	---		Power-50%		---	P-value		0.075
4825C/1424	2	6	18.33	15.41	5	46.00	18.70	-	-	0.185	6	30.42	14.03	5	26.50	16.46	-	+	0.829	6	48.75	15.95	5	27.50	15.23	-	-	0.286
453C/453	2	5	10.50	5.61	6	11.25	3.15	-	-	0.663	5	32.50	10.81	6	62.50	14.11	-	-	0.234	5	51.50	10.91	6	22.50	12.38	-	+	0.086
601C/601	2	6	32.50	15.65	6	15.83	3.27	-	+	0.452	6	27.50	11.46	6	55.00	15.08	-	-	0.172	6	40.00	15.63	6	29.17	17.72	-	+	0.509
598C/598	2	6	27.92	6.10	6	22.50	8.66	-	+	0.410	6	66.67	6.54	6	40.83	13.60	-	+	0.116	6	5.42	2.92	6	36.67	18.79	-	-	0.200
1522C/1522	2	6	25.00	10.29	4	10.00	4.56	-	+	0.239	6	37.50	10.27	4	26.88	16.12	-	+	0.528	6	35.42	12.66	4	57.50	13.92	-	-	0.250
Habitat Means			22.84	10.62		21.12	7.70		+			38.92	10.62		42.34	15.08		+			36.22	11.62		34.68	15.60		+	
Fisher's		Power	0.072		Power-50%		0.634	P-value		0.327	Power	0.095		Power-50%		0.702	P-value		0.394 y	Power	0.230		Power-50%		0.886	P-value		0.203
Stouffer's		Power	0.045		Power-50%		0.695	P-value		0.260	Power	0.036		Power-50%		0.784	P-value		0.333	Power	0.089		Power-50%		0.912	P-value		0.509
4825C/1424	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	22.50	5.30	5	14.00	10.42	-	+	0.293	4	34.38	10.96	5	74.50	14.92	-	-	0.074
453C/453	3	2	23.75	23.75	4	20.63	9.09	-	+	0.819	2	25.00	20.00	4	45.63	14.59	-	-	0.407	2	31.25	16.25	4	30.00	12.03	-	+	0.828
601C/601	3	4	6.25	3.75	6	7.50	3.42	-	-	0.764	4	27.50	10.05	6	27.50	15.79	-	o	0.845	4	57.50	3.95	6	52.92	17.41	-	+	0.723
598C/598	3	6	11.67	4.27	6	9.17	6.35	-	+	0.490	6	37.08	9.67	6	41.25	16.67	-	-	0.963	6	35.42	4.72	6	31.25	15.66	-	+	0.701
1522C/1522	3	6	4.58	1.98	4	0.63	0.63	-	+	0.148	6	25.83	9.80	4	24.38	14.30	-	+	0.634	6	35.00	15.30	4	52.50	16.80	-	-	0.371
Habitat Means			9.28	6.78		7.58	3.90		+			27.58	10.98		30.56	14.36		+			38.72	10.26		48.24	15.36		+	
Fisher's		Power	0.198		Power-50%		0.503	P-value		0.275	Power	0.134		Power-50%		0.795	P-value		0.532 y	Power	0.118		Power-50%		0.786	P-value		0.782xy
Stouffer's		Power	0.217		Power-50%		0.633	P-value		0.187	Power	0.068		Power-50%		0.816	P-value		0.609	Power	0.078		Power-50%		0.828	P-value		0.476

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.13. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. August 1992. Undisturbed. (Continued.)

		Annuals (A)								Ephemerals (AE)																			
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	
4825C/1424	1	6	2.50	2.50	5	0.00	0.00	-	+	0.363	6	1.25	1.25	5	0.00	0.00	-	+	0.363										
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000										
601C/601	1	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000										
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000										
1522C/1522	1	6	0.00	0.00	6	2.08	2.08	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000										
Habitat Means			0.50	0.50		0.50	0.50		-			0.26	0.26		0.00	0.00		+											
Fisher's		Power	---		Power-50%		---	P-value		0.441 y	Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		0.392	Power	---		Power-50%		---	P-value		0.450	Power	---		Power-50%		---	P-value			
4825C/1424	2	6	1.67	1.05	5	0.00	0.00	-	+	0.175	6	1.67	1.05	5	0.00	0.00	-	+	0.175										
453C/453	2	5	5.50	3.57	6	3.75	3.75	-	+	0.596	5	0.00	0.00	6	0.00	0.00	-	o	1.000										
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000										
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000										
1522C/1522	2	6	0.42	0.42	4	5.62	5.63	-	-	0.374	6	0.00	0.00	4	1.88	1.88	-	-	0.391										
Habitat Means			1.52	1.02		1.88	1.88		+			0.34	0.22		0.38	0.38		·											
Fisher's		Power	0.036		Power-50%		0.171	P-value		0.399 y	Power	0.000		Power-50%		0.000	P-value		0.488 y	Power	---		Power-50%		---	P-value			
Stouffer's		Power	0.037		Power-50%		0.212	P-value		0.388	Power	0.000		Power-50%		0.000	P-value		0.496	Power	---		Power-50%		---	P-value			
4825C/1424	3	4	21.25	8.07	5	11.50	7.31	-	+	0.377	4	20.00	7.43	5	0.00	0.00	-	-	0.063										
453C/453	3	2	20.00	20.00	4	3.75	2.39	-	·	0.445	2	1.25	1.25	4	0.00	0.00	-	-	0.500										
601C/601	3	4	8.75	8.75	6	12.08	7.26	-	-	0.684	4	0.00	0.00	6	7.08	7.08	-	-	0.363										
598C/598	3	6	15.83	7.46	6	18.33	14.37	-	-	0.907	6	10.83	8.21	6	17.50	14.05	-	-	0.593										
1522C/1522	3	6	6.25	3.97	4	22.50	10.31	-	-	0.148	6	0.00	0.00	4	3.75	3.75	-	-	0.391										
Habitat Means			14.44	9.68		13.64	8.34		-			6.42	3.38		5.68	5.00		-											
Fisher's		Power	0.088		Power-50%		0.718	P-value		0.453 y	Power	0.007		Power-50%		0.199	P-value		0.463xy	Power	---		Power-50%		---	P-value			
Stouffer's		Power	0.046		Power-50%		0.767	P-value		0.517	Power	0.001		Power-50%		0.292	P-value		0.426	Power	---		Power-50%		---	P-value			

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.14. Algal Percent Cover. Chlorophyta. Prince William Sound. Sheltered Rocky. August 1992. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group: Bladed Greens								Bladed Greens (AE) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	1.25	1.25	5	0.00	0.00	-	-	0.363	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	2.08	2.08	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.26	0.26		0.42	0.42		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---		P-value	0.632 y	Power	---			Power-50%	---		P-value	0.732	Power	---			Power-50%	---		P-value	0.732
Stouffer's		Power	---			Power-50%	---		P-value	0.525	Power	---			Power-50%	---		P-value	0.500	Power	---			Power-50%	---		P-value	0.500
4825C/1424	2	6	0.83	0.83	5	0.00	0.00	-	+	0.363	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	2	5	3.00	3.00	6	3.75	3.75	-	-	0.981	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.42	0.42	4	0.63	0.63	-	-	0.779	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.84	0.84		0.88	0.88		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---		P-value	0.773	Power	---			Power-50%	---		P-value	0.732	Power	---			Power-50%	---		P-value	0.732
Stouffer's		Power	---			Power-50%	---		P-value	0.522	Power	---			Power-50%	---		P-value	0.500	Power	---			Power-50%	---		P-value	0.500
4825C/1424	3	4	20.00	7.43	5	5.50	3.57	-	+	0.163	4	0.63	0.63	5	0.00	0.00	-	-	0.391	4	0.63	0.63	5	0.00	0.00	-	+	0.391
453C/453	3	2	1.25	1.25	4	1.25	1.25	-	o	0.825	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	1.88	1.88	6	7.08	7.08	-	-	0.764	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	15.83	7.46	6	17.50	14.05	-	-	0.976	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	6.25	3.97	4	11.25	4.62	-	-	0.349	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			9.06	4.42		8.54	6.14		-			0.12	0.12		0.00	0.00		+			0.12	0.12		0.00	0.00		+	
Fisher's		Power	0.019			Power-50%	0.744	P-value		0.621 y	Power	---			Power-50%	---		P-value	0.550	Power	---			Power-50%	---		P-value	0.550
Stouffer's		Power	0.007			Power-50%	0.808	P-value		0.509	Power	---			Power-50%	---		P-value	0.453	Power	---			Power-50%	---		P-value	0.453

(a) Kornmannia, Monostroma, Ulva and Ulvaria.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Fine Filamentous Greens								Acrosiphonia sp. (A)								Chaetomorpha/Rhizoclonium (A) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	1.25	1.25	5	0.00	0.00	-	+	0.363	6	1.25	1.25	5	0.00	0.00	-	+	0.363	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	2.08	2.08	-	-	0.363	6	0.00	0.00	6	2.08	2.08	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.26	0.26		0.42	0.42		+			0.26	0.26		0.42	0.42		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---		P-value	0.632 y	Power	---			Power-50%	---		P-value	0.632 y	Power	---			Power-50%	---		P-value	0.732
Stouffer's		Power	---			Power-50%	---		P-value	0.525	Power	---			Power-50%	---		P-value	0.525	Power	---			Power-50%	---		P-value	0.500
4825C/1424	2	6	0.83	0.83	5	0.00	0.00	-	+	0.363	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	2	5	3.00	3.00	6	3.75	3.75	-	-	0.981	5	3.00	3.00	6	3.75	3.75	-	-	0.981	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.42	0.42	4	0.63	0.63	-	-	0.779	6	0.42	0.42	4	0.63	0.63	-	-	0.779	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.84	0.84		0.88	0.88		-			0.68	0.68		0.88	0.88		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---		P-value	0.773	Power	---			Power-50%	---		P-value	0.681	Power	---			Power-50%	---		P-value	0.732
Stouffer's		Power	---			Power-50%	---		P-value	0.522	Power	---			Power-50%	---		P-value	0.472	Power	---			Power-50%	---		P-value	0.500
4825C/1424	3	4	17.50	6.37	5	5.50	3.57	-	+	0.190	4	0.00	0.00	5	5.50	3.57	-	-	0.184	4	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	3	2	0.00	0.00	4	1.25	1.25	-	-	0.391	2	0.00	0.00	4	1.25	1.25	-	-	0.391	2	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	1.88	1.88	6	7.08	7.08	-	-	0.764	4	1.88	1.88	6	0.00	0.00	-	+	0.391	4	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	15.83	7.46	6	17.50	14.05	-	-	0.976	6	5.00	3.16	6	0.00	0.00	-	+	0.175	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	6.25	3.97	4	11.25	4.62	-	-	0.349	6	6.25	3.97	4	7.50	3.68	-	-	0.557	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			8.30	3.96		8.54	6.14		-			2.64	1.82		2.86	1.72		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.031			Power-50%	0.631	P-value		0.413	Power	0.045			Power-50%	0.212	P-value		0.341	Power	---			Power-50%	---		P-value	0.732
Stouffer's		Power	0.017			Power-50%	0.733	P-value		0.288	Power	0.014			Power-50%	0.339	P-value		0.688	Power	---			Power-50%	---		P-value	0.500

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.14. Algal Percent Cover. Chlorophyta. Prince William Sound. Sheltered Rocky. August 1992. Undisturbed. (Continued.)

		Cladophora sp. (AE)								Ulothrix sp. (AE)								Urospora sp. (AE)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	0.83	0.83	5	0.00	0.00	-	+	0.363	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.16	0.16		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.450	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	4	17.50	6.37	5	0.00	0.00	-	+	0.062	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	3	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	0.00	0.00	6	7.08	7.08	-	-	0.363	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	10.83	8.21	6	17.50	14.05	-	-	0.593	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.00	0.00	4	3.75	3.75	-	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			5.66	2.92		5.68	5.00		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.010		Power-50%		0.091	P-value		0.393x	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.001		Power-50%		0.092	P-value		0.293	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Tubular and Saccate Greens								Blidingia/Enteromorpha (AE) (a)															
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000									
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
4825C/1424	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000									
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
4825C/1424	3	4	1.88	1.88	5	0.00	0.00	-	+	0.391	4	1.88	1.88	5	0.00	0.00	-	+	0.391									
453C/453	3	2	1.25	1.25	4	0.00	0.00	-	+	0.500	2	1.25	1.25	4	0.00	0.00	-	+	0.500									
601C/601	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000									
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000									
Habitat Means			0.64	0.64		0.00	0.00		+			0.64	0.64		0.00	0.00		-										
Fisher's		Power	---		Power-50%		---	P-value		0.424	Power	---		Power-50%		---	P-value		0.424	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.317	Power	---		Power-50%		---	P-value		0.317	Power	---		Power-50%		---	P-value		

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.15. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. August 1992. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta							Morphological Group: Bladed Browns							Total Fucus gardneri (P)						
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	43.33	10.91	5	6.50	5.34	-	+	0.013	6	42.08	10.36	5	6.50	5.34	-	+	0.013	6	42.08	10.36	5	6.50	5.34	-	+	0.013
453C/453	1	6	48.33	12.87	6	13.75	6.18	-	+	0.033	6	48.33	12.87	6	13.75	6.18	-	+	0.033	6	48.33	12.87	6	13.75	6.18	-	+	0.033
601C/601	1	6	9.17	7.26	6	18.33	14.31	-	-	0.712	6	9.17	7.26	6	18.33	14.31	-	-	0.712	6	9.17	7.26	6	18.33	14.31	-	-	0.712
598C/598	1	6	0.42	0.42	6	0.42	0.42	-	o	1.000	6	0.42	0.42	6	0.42	0.42	-	o	1.000	6	0.42	0.42	6	0.42	0.42	-	o	1.000
1522C/1522	1	6	47.50	17.15	6	55.42	17.00	-	-	0.598	6	47.50	17.15	6	55.42	17.00	-	-	0.598	6	47.50	17.15	6	55.42	17.00	-	-	0.598
Habitat Means			29.74	9.74		18.88	8.64		+			29.50	9.64		18.88	8.64		+			29.50	9.64		18.88	8.64		-	
Fisher's		Power	---		Power-50%		---	P-value		0.020	Power	---		Power-50%		---	P-value		0.019	Power	---		Power-50%		---	P-value		0.019
Stouffer's		Power	0.301		Power-50%		0.791	P-value		0.100	Power	0.323		Power-50%		0.781	P-value		0.100	Power	0.308		Power-50%		0.780	P-value		0.100
4825C/1424	2	6	49.58	16.32	5	27.50	15.23	-	+	0.277	6	48.75	15.95	5	27.50	15.23	-	+	0.286	6	48.75	15.95	5	27.50	15.23	-	+	0.286
453C/453	2	5	46.00	12.21	6	20.42	11.11	-	+	0.104	5	43.50	12.66	6	20.42	11.11	-	+	0.130	5	43.50	12.66	6	20.42	11.11	-	+	0.130
601C/601	2	6	38.33	16.08	6	27.50	16.82	-	+	0.508	6	38.33	16.08	6	27.50	16.82	-	+	0.508	6	38.33	16.08	6	27.50	16.82	-	+	0.508
598C/598	2	6	5.42	2.92	6	36.67	18.79	-	-	0.200	6	5.42	2.92	6	36.67	18.79	-	-	0.200	6	5.42	2.92	6	36.67	18.79	-	-	0.200
1522C/1522	2	6	35.42	12.66	4	62.50	14.51	-	-	0.189	6	35.42	12.66	4	57.50	13.92	-	-	0.250	6	35.42	12.66	4	57.50	13.92	-	-	0.250
Habitat Means			34.94	12.04		34.92	15.28		-			34.28	12.08		33.92	15.16		+			34.28	12.08		33.92	15.16		+	
Fisher's		Power	0.188		Power-50%		0.869	P-value		0.223	Power	0.194		Power-50%		0.867	P-value		0.248	Power	0.199		Power-50%		0.859	P-value		0.248
Stouffer's		Power	0.081		Power-50%		0.899	P-value		0.540	Power	0.086		Power-50%		0.890	P-value		0.551	Power	0.091		Power-50%		0.900	P-value		0.551
4825C/1424	3	4	25.62	9.32	5	66.50	18.57	-	-	0.101	4	25.62	9.32	5	65.50	19.21	-	-	0.116	4	25.62	9.32	5	65.50	19.21	-	-	0.116
453C/453	3	2	23.75	23.75	4	28.13	12.56	-	-	0.786	2	23.75	23.75	4	25.63	13.63	-	-	0.876	2	23.75	23.75	4	25.63	13.63	-	-	0.876
601C/601	3	4	46.25	8.51	6	49.58	16.19	-	-	0.954	4	39.38	13.52	6	45.42	15.80	-	-	0.906	4	39.38	13.52	6	45.42	15.80	-	-	0.906
598C/598	3	6	32.92	3.73	6	31.25	15.66	-	+	0.796	6	32.92	3.73	6	31.25	15.66	-	+	0.796	6	32.92	3.73	6	31.25	15.66	-	+	0.796
1522C/1522	3	6	30.00	14.80	4	41.25	20.68	-	-	0.535	6	30.00	14.80	4	41.25	20.68	-	-	0.535	6	30.00	14.80	4	41.25	20.68	-	-	0.535
Habitat Means			31.72	12.02		43.36	16.76		-			30.34	13.02		41.82	17.00		-			30.34	13.02		41.82	17.00		-	
Fisher's		Power	0.073		Power-50%		0.728	P-value		0.225	Power	0.069		Power-50%		0.571	P-value		0.248	Power	0.076		Power-50%		0.565	P-value		0.248
Stouffer's		Power	0.043		Power-50%		0.774	P-value		0.377	Power	0.056		Power-50%		0.642	P-value		0.399	Power	0.064		Power-50%		0.649	P-value		0.399

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Adult Fucus gardneri (P) (> 2cm)							Juvenile Fucus gardneri (P) (<= 2cm)							Fucus Stipes (P) (a)						
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	30.83	11.41	5	5.00	4.40	-	+	0.109	6	11.25	10.26	5	1.50	1.00	-	+	0.460	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	1	6	45.42	13.94	6	13.75	6.18	-	+	0.090	6	2.92	1.64	6	0.00	0.00	-	+	0.093	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	8.75	7.35	6	18.33	14.31	-	-	0.636	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.42	0.42	6	0.42	0.42	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	46.67	17.24	6	55.42	17.00	-	-	0.581	6	0.83	0.83	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.42	0.42	-	-	0.363
Habitat Means			26.42	10.06		18.58	8.46		+			3.08	2.62		0.30	0.20		+			0.00	0.00		0.08	0.08		-	
Fisher's		Power	0.275		Power-50%		0.638	P-value		0.137	Power	---		Power-50%		---	P-value		0.068	Power	---		Power-50%		---	P-value		0.536
Stouffer's		Power	0.255		Power-50%		0.756	P-value		0.185	Power	---		Power-50%		---	P-value		0.082	Power	---		Power-50%		---	P-value		0.425
4825C/1424	2	6	31.67	15.62	5	27.50	15.23	-	+	0.757	6	17.08	11.80	5	0.00	0.00	-	+	0.095	6	0.83	0.83	5	0.00	0.00	-	+	0.363
453C/453	2	5	43.50	12.66	6	20.42	11.11	-	+	0.130	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	38.33	16.08	6	27.50	16.82	-	+	0.508	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	5.42	2.92	6	36.67	18.79	-	-	0.200	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	35.42	12.66	4	57.50	13.92	-	-	0.250	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	1.67	1.67	4	0.00	0.00	-	+	0.363
Habitat Means			30.86	12.00		33.92	15.16		-			3.42	2.36		0.00	0.00		+			0.50	0.50		0.00	0.00		+	
Fisher's		Power	0.133		Power-50%		0.766	P-value		0.387 y	Power	0.004		Power-50%		0.001	P-value		0.310	Power	---		Power-50%		---	P-value		0.359
Stouffer's		Power	0.052		Power-50%		0.826	P-value		0.592	Power	0.000		Power-50%		0.000	P-value		0.408	Power	---		Power-50%		---	P-value		0.376
4825C/1424	3	4	16.88	5.98	5	63.50	20.40	-	-	0.088	4	8.75	5.05	5	2.00	2.00	-	+	0.287	4	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	3	2	21.25	21.25	4	25.63	13.63	-	-	0.823	2	2.50	2.50	4	0.00	0.00	-	+	0.500	2	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	38.75	14.05	6	45.42	15.80	-	-	0.865	4	0.63	0.63	6	0.00	0.00	-	+	0.392	4	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	32.92	3.73	6	31.25	15.66	-	+	0.796	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	30.00	14.80	4	41.25	20.68	-	-	0.535	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	1.25	1.25	4	0.00	0.00	-	+	0.363
Habitat Means			27.98	11.98		41.42	17.24		-			2.38	1.64		0.40	0.40		-			0.26	0.26		0.00	0.00		+	
Fisher's		Power	0.091		Power-50%		0.541	P-value		0.205	Power	0.051		Power-50%		0.212	P-value		0.242	Power	---		Power-50%		---	P-value		0.536
Stouffer's		Power	0.078		Power-50%		0.617	P-value		0.373	Power	0.076		Power-50%		0.206	P-value		0.241	Power	---		Power-50%		---	P-value		0.425

(a) Dead Fucus plants or stipes without blades.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.15. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. August 1992. Undisturbed. (Continued.)

Site Pair	Mvd	Petalonia/Punctaria (AE) (b) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Coarse Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Dictyosiphon sp. (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
St f		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	3	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Fine Filamentous Browns (AE) (b) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	1.25	1.25	5	0.00	0.00	-	-	0.363	6	1.25	1.25	5	0.00	0.00	-	-	0.363
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.26	0.26		0.00	0.00		-			0.26	0.26		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.536
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.450	Power	---		Power-50%		---	P-value		0.450
4825C/1424	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.83	0.83	5	0.00	0.00	-	-	0.363	6	0.83	0.83	5	0.00	0.00	-	-	0.363
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	1.88	1.88	-	-	0.391	6	0.00	0.00	4	1.88	1.88	-	-	0.391
Habitat Means			0.00	0.00		0.00	0.00		o			0.16	0.16		0.38	0.38		+			0.16	0.16		0.38	0.38		+	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.628 y	Power	---		Power-50%		---	P-value		0.628 y
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.521	Power	---		Power-50%		---	P-value		0.521
4825C/1424	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	3	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

(a) Genera not separated.

(b) Elachista, Ectocarpus and Pilayella.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.15. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. August 1992. Undisturbed. (Continued.)

		Morphological Group: Saccate Browns								Leathesia/Colpomenia (A) (a)								Soranthera ulvoidea (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	2	5	2.50	1.94	6	0.00	0.00	-	+	0.209	5	2.50	1.94	6	0.00	0.00	-	+	0.209	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	4	3.13	3.13	-	-	0.391	6	0.00	0.00	4	3.13	3.13	-	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.50	0.38		0.62	0.62		+			0.50	0.38		0.62	0.62		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.001		Power-50%		0.001	P-value		0.522 y	Power	0.000		Power-50%		0.003	P-value		0.522 y	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.000		Power-50%		0.001	P-value		0.313	Power	0.000		Power-50%		0.000	P-value		0.313	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	4	0.00	0.00	5	1.00	1.00	-	-	0.374	4	0.00	0.00	5	1.00	1.00	-	-	0.374	4	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	3	2	0.00	0.00	4	2.50	2.50	-	-	0.391	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	2.50	2.50	-	-	0.391
601C/601	3	4	6.88	6.88	6	4.17	4.17	-	+	0.751	4	6.88	6.88	6	4.17	4.17	-	+	0.751	4	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			1.38	1.38		1.54	1.54		-			1.38	1.38		1.04	1.04		-			0.00	0.00		0.50	0.50		-	
Fisher's		Power	---		Power-50%		---	P-value		0.412	Power	---		Power-50%		---	P-value		0.585 y	Power	---		Power-50%		---	P-value		0.550
Stouffer's		Power	---		Power-50%		---	P-value		0.307	Power	---		Power-50%		---	P-value		0.480	Power	---		Power-50%		---	P-value		0.325

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Crustose Browns								Ralfsia/Petroderma (P) (a)															
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o									
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
4825C/1424	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000									
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o									
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
4825C/1424	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000									
453C/453	3	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000									
601C/601	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000									
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o									
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		

(a) Genera not separated.

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.16. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1992. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group: Bladed Reds								Bangia sp. (AE)							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
4825C/1424	1	6	0.00	0.00	5	4.00	4.00	-	-	0.374	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	1	6	2.08	2.08	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	1.67	1.67	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.50	0.50		1.22	1.22		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value	0.359		Power	---		Power-50%		---	P-value	0.732		Power	---		Power-50%		---	P-value	0.732	
Stouffer's		Power	---		Power-50%		---	P-value	0.747		Power	---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---	P-value	0.500	
4825C/1424	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	2	5	8.00	4.14	6	2.08	1.36	-	+	0.232	5	0.00	0.00	6	0.42	0.42	-	-	0.363	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	1.67	1.67	6	1.67	1.67	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			1.94	1.16		0.76	0.62		+			0.00	0.00		0.08	0.08		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.050		Power-50%		0.037	P-value	0.453		Power	---		Power-50%		---	P-value	0.536		Power	---		Power-50%		---	P-value	0.732	
Stouffer's		Power	0.029		Power-50%		0.021	P-value	0.263		Power	---		Power-50%		---	P-value	0.315		Power	---		Power-50%		---	P-value	0.500	
4825C/1424	3	4	10.00	5.30	5	14.00	11.14	-	-	0.935	4	6.25	3.31	5	2.00	2.00	-	+	0.210	4	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	3	2	26.25	26.25	4	4.37	4.37	-	+	0.372	2	18.75	18.75	4	0.00	0.00	-	+	0.500	2	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	18.13	12.97	6	8.33	6.54	-	+	0.508	4	0.00	0.00	6	1.67	1.67	-	-	0.363	4	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	2.50	1.71	6	0.83	0.53	-	+	0.585	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	5.00	4.08	4	22.50	12.99	-	-	0.261	6	0.00	0.00	4	2.50	1.77	-	-	0.204	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			12.38	10.08		10.00	7.10		+			5.02	4.42		1.24	1.10		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.115		Power-50%		0.552	P-value	0.432		Power	0.004		Power-50%		0.039	P-value	0.427 y		Power	---		Power-50%		---	P-value	0.732	
Stouffer's		Power	0.080		Power-50%		0.685	P-value	0.210		Power	0.003		Power-50%		0.034	P-value	0.523		Power	---		Power-50%		---	P-value	0.500	

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Gigartinaceae Group (P) (a)								Palmaria spp. (A)								Phycodrys riggii (A)							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
4825C/1424	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value	0.732		Power	---		Power-50%		---	P-value	0.732		Power	---		Power-50%		---	P-value	0.732	
Stouffer's		Power	---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---	P-value	0.500	
4825C/1424	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	2	5	0.00	0.00	6	0.42	0.42	-	-	0.363	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.08	0.08		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value	0.536		Power	---		Power-50%		---	P-value	0.732		Power	---		Power-50%		---	P-value	0.732	
Stouffer's		Power	---		Power-50%		---	P-value	0.315		Power	---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---	P-value	0.500	
4825C/1424	3	4	6.25	3.31	5	2.00	2.00	-	+	0.210	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	3	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	18.75	18.75	4	0.00	0.00	-	-	0.500	2	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	0.00	0.00	6	1.67	1.67	-	-	0.363	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.00	0.00	4	1.25	0.72	-	-	0.182	6	0.00	0.00	4	1.25	1.25	-	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			1.26	0.66		1.00	0.88		-			3.76	3.76		0.26	0.26		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.008		Power-50%		0.013	P-value	0.342 y		Power	---		Power-50%		---	P-value	0.629 y		Power	---		Power-50%		---	P-value	0.732	
Stouffer's		Power	0.008		Power-50%		0.002	P-value	0.377		Power	---		Power-50%		---	P-value	0.571		Power	---		Power-50%		---	P-value	0.500	

(a) Chondrus, Iridaea, Mastocarpus and Rhodoglossum.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.16. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1992. Undisturbed. (Continued.)

		Porphyra sp. (A)								Rhodymenia pertusa (A)								Tokidadendron kurilensis (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	3	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Coarse Filamentous Reds								Articulate Coralline Algae (A)								Cryptosiphonia woodii (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.08	0.08		0.08	0.08		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.632 y	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.690	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	2	5	6.00	4.37	6	1.67	1.05	-	+	0.470	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	1.67	1.67	6	1.67	1.67	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			1.54	1.22		0.68	0.56		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.010		Power-50%		0.004	P-value		0.586	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.006		Power-50%		0.004	P-value		0.351	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	4	2.50	2.50	5	7.00	7.00	-	-	0.781	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	3	2	1.25	1.25	4	4.37	4.37	-	-	0.874	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	18.13	12.97	6	5.83	4.17	-	+	0.397	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	2.50	1.71	6	0.00	0.00	-	+	0.183	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	5.00	4.08	4	11.25	8.26	-	-	0.504	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	1.25	1.25	-	-	0.391
Habitat Means			5.88	4.52		5.70	4.78		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.26	0.26		-	
Fisher's		Power	0.011		Power-50%		0.482	P-value		0.732 y	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.550
Stouffer's		Power	0.005		Power-50%		0.658	P-value		0.834	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.429

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.16. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1992. Undisturbed. (Continued.)

Site Pair	Myd	Endocladia muricata (P) N	C	SE	N	O	SE	CV	D	P	Gloiopeltis furcata (A) N	C	SE	N	O	SE	CV	D	P	Neorhodomela/Rhodomela (P) (a) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	5	0.00	0.00	~	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	~	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	~	o	1.000	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	~	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.42	0.42	6	0.00	0.00	-	.	0.363
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	~	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.08	0.08		-			0.08	0.08		0.00	0.00		+	
Fisher's		Power	---		Power-50%	---	P-value			0.732	Power	---		Power-50%	---	P-value			0.536	Power	---		Power-50%	---	P-value			0.536
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.417	Power	---		Power-50%	---	P-value			0.240
4825C/1424	2	6	0.00	0.00	5	0.00	0.00	~	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	2	5	0.00	0.00	6	0.00	0.00	~	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	6.00	4.37	6	1.67	1.05	-	+	0.470
601C/601	2	6	0.00	0.00	6	0.00	0.00	~	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.67	1.67	6	1.67	1.67	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	~	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	~	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			1.54	1.22		0.68	0.56		-	
Fisher's		Power	---		Power-50%	---	P-value			0.732	Power	---		Power-50%	---	P-value			0.732	Power	0.010		Power-50%	0.005	P-value			0.586
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	0.007		Power-50%	0.004	P-value			0.351
4825C/1424	3	4	0.00	0.00	5	0.00	0.00	~	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	2.50	2.50	5	7.00	7.00	-	-	0.781
453C/453	3	2	0.00	0.00	4	0.00	0.00	~	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	1.25	1.25	4	4.37	4.37	-	-	0.874
601C/601	3	4	0.00	0.00	6	0.00	0.00	~	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	18.13	12.97	6	5.83	4.17	-	+	0.397
598C/598	3	6	0.00	0.00	6	0.00	0.00	~	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	2.50	1.71	6	0.00	0.00	-	+	0.183
1522C/1522	3	6	0.00	0.00	4	0.00	0.00	~	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	5.00	4.08	4	10.00	7.07	-	-	0.538
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			5.88	4.52		5.44	4.54		-	
Fisher's		Power	---		Power-50%	---	P-value			0.732	Power	---		Power-50%	---	P-value			0.732	Power	0.013		Power-50%	0.493	P-value			0.745 y
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	0.004		Power-50%	0.658	P-value			0.837

(a) Genera not separated.
x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Myd	Odonthalia floccosa (P) N	C	SE	N	O	SE	CV	D	P	Ptilota/Neoptilota (P) (b) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Saccate Reds N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	5	0.00	0.00	~	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	~	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	~	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	~	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	~	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.732	Power	---		Power-50%	---	P-value			0.732	Power	---		Power-50%	---	P-value			0.732
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500
4825C/1424	2	6	0.00	0.00	5	0.00	0.00	~	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	2	5	0.00	0.00	6	0.00	0.00	~	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	~	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	*0.00*	*0.00*	6	*0.00*	*0.00*	~	o	*1.000*	6	*0.00*	*0.00*	6	*0.00*	*0.00*	-	o	*1.000*	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	~	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.732	Power	---		Power-50%	---	P-value			0.732	Power	---		Power-50%	---	P-value			0.732
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500
4825C/1424	3	4	0.00	0.00	5	0.00	0.00	~	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	1.25	1.25	5	2.50	2.50	-	-	0.873
453C/453	3	2	0.00	0.00	4	0.00	0.00	~	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	*0.00*	*0.00*	6	*0.00*	*0.00*	~	o	*1.000*	4	*0.00*	*0.00*	6	*0.00*	*0.00*	-	o	*1.000*	4	0.00	0.00	6	0.83	0.83	-	-	0.363
598C/598	3	6	0.00	0.00	6	0.00	0.00	~	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.00	0.00	4	0.00	0.00	~	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.63	0.63	-	-	0.391
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.26	0.26		0.78	0.78		-	
Fisher's		Power	---		Power-50%	---	P-value			0.732	Power	---		Power-50%	---	P-value			0.732	Power	---		Power-50%	---	P-value			0.349
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.341

(b) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.16. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1992. Undisturbed. (Continued.)

Site Pair	Mvd	Halosaccion glandiforme (A) N	C	SE	N	O	SE	CV	D	P	Halosaccion spp. (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	4	0.00	0.00	5	2.50	2.50	-	-	0.374	4	1.25	1.25	5	0.00	0.00	-	+	0.391	4	0.00	0.00	5	2.50	2.50			0.374
453C/453	3	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	0.00	0.00	6	0.83	0.83	-	-	0.363	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.83	0.53	-	-	0.175
1522C/1522	3	6	0.00	0.00	4	0.63	0.63	-	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	8.12	8.12	-	-	0.391
Habitat Means			0.00	0.00		0.78	0.78		-			0.26	0.26		0.00	0.00		+			0.00	0.00		2.28	2.22		-	
Fisher's		Power	---		Power-50%		---	P-value		0.235	Power	---		Power-50%		---	P-value		0.550	Power	0.071		Power-50%		---	P-value		0.161
Stouffer's		Power	---		Power-50%		---	P-value		0.304	Power	---		Power-50%		---	P-value		0.453	Power	---		Power-50%		---	P-value		0.088

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Crustose Reds N	C	SE	N	O	SE	CV	D	P	Crustose Coralline Algae (P) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	4.00	4.00	-	-	0.374	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	2.08	2.08	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	1.67	1.67	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.42	0.42		1.14	1.14		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.446	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.567	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	2.00	2.00	6	0.00	0.00	-	-	0.374	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.40	0.40		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.542	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.319	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	4	0.00	0.00	5	2.50	2.50	-	-	0.374	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	3	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	6.25	6.25	4	0.00	0.00	-	+	0.500	2	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	0.00	0.00	6	0.83	0.53	-	-	0.175	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.00	0.00	4	8.12	8.12	-	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		2.28	2.22		-			1.26	1.26		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.073		Power-50%		---	P-value		0.161	Power	---		Power-50%		---	P-value		0.598	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.088	Power	---		Power-50%		---	P-value		0.360	Power	---		Power-50%		---	P-value		0.500

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.16. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1992. Undisturbed. (Continued.)

		Hildenbrandia sp. (P)									Petrocelis (P)																
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	5	4.00	4.00	-	-	0.374	6	0.00	0.00	5	0.00	0.00	-	o	1.000									
453C/453	1	6	2.08	2.08	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	1	6	0.00	0.00	6	1.67	1.67	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.42	0.42		1.14	1.14		-			0.00	0.00		0.00	0.00		o									
Fisher's		Power	---		Power-50%		---	P-value		0.446	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.567	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
4825C/1424	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000									
453C/453	2	5	2.00	2.00	6	0.00	0.00	-	+	0.374	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000									
Habitat Means			0.40	0.40		0.00	0.00		-			0.00	0.00		0.00	0.00		o									
Fisher's		Power	---		Power-50%		---	P-value		0.542	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.319	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
4825C/1424	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000									
453C/453	3	2	6.25	6.25	4	0.00	0.00	-	+	0.500	2	0.00	0.00	4	0.00	0.00	-	o	1.000									
601C/601	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000									
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000									
Habitat Means			1.26	1.26		0.00	0.00		+			0.00	0.00		0.00	0.00		o									
Fisher's		Power	---		Power-50%		---	P-value		0.598	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.360	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.17. Algal Percent Cover. Invertebrates. Prince William Sound. Sheltered Rocky. August 1992. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Balanomorpha								Lottiidae								Mytilus							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	2.50	2.50	5	42.50	18.57	-	-	0.033	6	0.42	0.42	5	0.50	0.50	-	-	0.900	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	1	6	1.25	0.56	6	0.83	0.83	-	+	0.438	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.42	0.42	6	0.00	0.00	-	+	0.363
601C/601	1	6	20.83	11.63	6	3.33	1.54	-	+	0.110	6	0.83	0.53	6	0.00	0.00	-	+	0.175	6	1.67	1.67	6	2.92	2.92	-	-	0.842
598C/598	1	6	9.17	3.46	6	11.25	2.64	-	-	0.467	6	1.67	0.83	6	5.83	1.79	-	-	0.030	6	2.08	2.08	6	0.83	0.53	-	+	0.918
1522C/1522	1	6	9.58	6.07	6	21.67	12.51	-	-	0.388	6	2.08	2.08	6	0.83	0.53	-	+	0.918	6	0.83	0.83	6	0.42	0.42	-	+	0.814
Habitat Means			8.68	4.86		15.92	7.20		-			1.00	0.76		1.42	0.56		-			1.00	1.00		0.82	0.76		+	
Fisher's		Power	0.198			Power-50%	0.797	P-value		0.131	Power	0.278			Power-50%	0.400	P-value		0.237	Power	0.026			Power-50%	---	P-value		0.509
Stouffer's		Power	0.059			Power-50%	0.878	P-value		0.398	Power	---			Power-50%	---	P-value		0.086	Power	0.063			Power-50%	---	P-value		0.286
4825C/1424	2	6	15.83	15.34	5	45.50	18.93	-	-	0.130	6	1.67	1.67	5	0.50	0.50	-	+	0.747	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	2	5	9.00	4.58	6	6.67	2.79	-	+	0.948	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	1.50	1.50	6	4.58	1.98	-	-	0.201
601C/601	2	6	24.58	14.41	6	5.83	2.93	-	+	0.198	6	0.42	0.42	6	0.42	0.42	-	o	1.000	6	7.50	6.02	6	9.17	3.07	-	-	0.519
598C/598	2	6	17.92	5.53	6	12.92	5.34	-	+	0.516	6	0.83	0.83	6	2.08	1.00	-	-	0.309	6	9.17	3.33	6	7.50	3.76	-	+	0.532
1522C/1522	2	6	10.42	5.18	4	5.63	3.29	-	+	0.537	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	14.58	6.17	4	4.37	4.37	-	+	0.182
Habitat Means			15.54	9.00		15.30	6.64		+			0.58	0.58		0.60	0.38		-			6.56	3.40		5.14	2.66		+	
Fisher's		Power	0.124			Power-50%	0.420	P-value		0.313	Power	0.021			Power-50%	---	P-value		0.549	Power	0.038			Power-50%	0.200	P-value		0.472
Stouffer's		Power	0.059			Power-50%	0.551	P-value		0.225	Power	0.026			Power-50%	---	P-value		0.228	Power	0.013			Power-50%	0.355	P-value		0.526
4825C/1424	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	3	2	23.75	23.75	4	7.50	2.70	-	+	0.623	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	13.12	11.52	-	-	0.263
601C/601	3	4	0.63	0.63	6	1.25	1.25	-	-	0.923	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	5.63	3.59	6	6.25	3.46	-	-	0.852
598C/598	3	6	5.42	2.62	6	7.50	6.55	-	-	0.807	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	5.83	3.91	6	1.67	1.24	-	+	0.516
1522C/1522	3	6	1.25	0.85	4	0.00	0.00	-	+	0.183	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	3.33	1.54	4	0.63	0.63	-	+	0.290
Habitat Means			6.22	5.58		3.26	2.12		+			0.08	0.08		0.00	0.00		+			2.94	1.80		4.34	3.36		-	
Fisher's		Power	0.136			Power-50%	0.360	P-value		0.375	Power	---			Power-50%	---	P-value		0.536	Power	0.010			Power-50%	0.324	P-value		0.623
Stouffer's		Power	0.159			Power-50%	0.490	P-value		0.372	Power	---			Power-50%	---	P-value		0.240	Power	0.007			Power-50%	0.491	P-value		0.535

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Nucella lamellosa								Littorinidae								Mollusca							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	5	1.50	1.50	-	-	0.374	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.67	0.83	6	1.25	0.56	-	+	0.843	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.83	0.83	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.30	0.30		-			0.34	0.16		0.42	0.28		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.542	Power	0.002			Power-50%	0.010	P-value		0.564	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	---			Power-50%	---	P-value		0.451	Power	0.002			Power-50%	0.004	P-value		0.255	Power	---			Power-50%	---	P-value		0.500
4825C/1424	2	6	0.83	0.53	5	0.00	0.00	-	+	0.175	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.16	0.10		0.00	0.00		+			0.00	0.00		0.08	0.08		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000			Power-50%	0.000	P-value		0.404	Power	---			Power-50%	---	P-value		0.536	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	0.000			Power-50%	0.000	P-value		0.425	Power	---			Power-50%	---	P-value		0.417	Power	---			Power-50%	---	P-value		0.500
4825C/1424	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	3	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.18. Algal Percent Cover. Substrates. Prince William Sound. Sheltered Rocky. August 1992. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Rock								Oiled Rock								Sand							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	52.50	10.80	5	45.00	21.62	-	+	0.777	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	1	6	47.92	13.17	6	85.42	6.66	-	-	0.029	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	65.83	13.13	6	73.75	12.94	-	-	0.664	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	86.25	6.94	6	80.83	3.00	-	+	0.282	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	40.00	10.99	6	17.50	13.60	-	+	0.168	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			58.50	11.00		60.50	11.56		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.221			Power-50%	0.919	P-value		0.313 xy	Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	0.098			Power-50%	0.954	P-value		0.540	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500
4825C/1424	2	6	30.42	14.03	5	26.50	16.46	-	+	0.829	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	2	5	32.50	10.81	6	62.50	14.11	-	-	0.234	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	27.50	11.46	6	54.17	14.88	-	-	0.180	6	0.00	0.00	6	0.83	0.83	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	66.67	6.54	6	40.83	13.60	-	+	0.116	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	37.50	10.27	4	26.88	16.12	-	+	0.528	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			38.92	10.62		42.18	15.04		+			0.00	0.00		0.16	0.16		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.091			Power-50%	0.700	P-value		0.393 y	Power	---			Power-50%	---	P-value		0.536	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	0.042			Power-50%	0.800	P-value		0.331	Power	---			Power-50%	---	P-value		0.417	Power	---			Power-50%	---	P-value		0.500
4825C/1424	3	4	22.50	5.30	5	14.00	10.42	-	+	0.293	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	21.88	21.88	5	0.00	0.00	-	+	0.391
453C/453	3	2	25.00	20.00	4	45.63	14.59	-	-	0.407	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	27.50	10.05	6	27.50	15.79	-	o	0.845	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	37.08	9.67	6	41.25	16.67	-	-	0.963	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	25.83	9.80	4	24.38	14.30	-	+	0.634	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	27.08	17.13	4	0.00	0.00	-	+	0.175
Habitat Means			27.58	10.98		30.56	14.36		+			0.00	0.00		0.00	0.00		o			9.80	7.80		0.00	0.00		+	
Fisher's		Power	0.139			Power-50%	0.813	P-value		0.532 y	Power	---			Power-50%	---	P-value		0.732	Power	0.020			Power-50%	0.027	P-value		0.266
Stouffer's		Power	0.097			Power-50%	0.846	P-value		0.609	Power	---			Power-50%	---	P-value		0.500	Power	0.020			Power-50%	0.027	P-value		0.344

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Shell Fragments								Water								Zostera/Phyllospadix							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500
4825C/1424	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500
4825C/1424	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	3	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.18. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. August 1992. Undisturbed. (Continued.)

		Sand and Mud								Total Substrate																
SWt Pa	Wvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV D P
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	47.92	13.17	6	85.42	6.66	-	-	0.029							
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	65.83	13.13	6	73.75	12.94	-	-	0.664							
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	86.25	6.94	6	80.83	3.00	-	-	0.282							
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	40.00	10.99	6	17.50	13.60	-	-	0.168							
Habitat Means			0.00	0.00		0.00	0.00		o			58.50	11.00		60.50	11.56		-								
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	0.229		Power-50%		0.937	P-value		0.313xy	Power	---		Power-50%		---	P-value	
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.108		Power-50%		0.954	P-value		0.540	Power	---		Power-50%		---	P-value	
4825C/1424	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	30.42	14.03	5	26.50	16.46	-	+	0.829							
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	32.50	10.81	6	62.50	14.11	-	-	0.234							
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	27.50	11.46	6	55.00	15.08	-	-	0.172							
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	66.67	6.54	6	40.83	13.60	-	-	0.116							
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	37.50	10.27	4	26.88	16.12	-	+	0.528							
Habitat Means			0.00	0.00		0.00	0.00		o			38.92	10.62		42.34	15.08		+								
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	0.091		Power-50%		0.697	P-value		0.394 y	Power	---		Power-50%		---	P-value	
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.043		Power-50%		0.773	P-value		0.333	Power	---		Power-50%		---	P-value	
4825C/1424	3	4	21.88	21.88	5	0.00	0.00	-	+	0.391	4	44.38	18.01	5	14.00	10.42	-	+	0.108							
453C/453	3	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	25.00	20.00	4	45.63	14.59	-	-	0.407							
601C/601	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	27.50	10.05	6	27.50	15.79	-	o	0.845							
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	37.08	9.67	6	41.25	16.67	-	-	0.963							
1522C/1522	3	6	27.08	17.13	4	0.00	0.00	-	+	0.175	6	52.92	15.64	4	24.38	14.30	-	+	0.183							
Habitat Means			9.80	7.80		0.00	0.00		+			37.38	14.68		30.56	14.36		+								
Fisher's		Power	0.019		Power-50%		0.030	P-value		0.266	Power	0.267		Power-50%		0.762	P-value		0.198	Power	---		Power-50%		---	P-value	
Stouffer's		Power	0.019		Power-50%		0.028	P-value		0.344	Power	0.186		Power-50%		0.810	P-value		0.508	Power	---		Power-50%		---	P-value	

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.19. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. August 1993. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Algal Diversity Index (a)								Algal Taxa Richness (b)								Total Algae							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	18	0.01	0.01	15	0.04	0.02	-	-	0.206	18	0.89	0.11	15	0.53	0.22	-	+	0.134	18	33.33	7.67	15	14.33	7.44	-	+	0.030
453C/453	1	18	0.07	0.03	20	0.02	0.02	-	+	0.134	18	1.28	0.18	20	0.60	0.17	-	+	0.009	18	42.08	7.54	20	23.75	7.41	-	+	0.055
601C/601	1	18	0.02	0.02	21	0.00	0.00	-	+	0.234	18	0.67	0.16	21	0.29	0.10	-	-	0.047	18	12.78	5.05	21	13.33	6.09	-	-	0.730
598C/598	1	18	0.02	0.02	21	0.00	0.00	-	+	0.331	18	0.17	0.12	21	0.14	0.08	-	-	0.866	18	0.42	0.30	21	1.79	1.23	-	-	0.404
1522C/1522	1	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.61	0.12	20	0.75	0.10	-	-	0.371	18	32.78	8.26	20	39.88	9.32	-	-	0.505
Habitat Means			0.02	0.01		0.01	0.01		+			0.72	0.14		0.46	0.13		-			24.28	5.78		18.62	6.28		-	
Fisher's		Power	0.243			Power-50%	0.413	P-value		0.136	Power	---			Power-50%	---	P-value		0.004	Power	0.003			Power-50%	0.963	P-value		0.624xy
Stouffer's		Power	---			Power-50%	---	P-value		0.050	Power	---			Power-50%	---	P-value		0.023	Power	0.002			Power-50%	0.972	P-value		0.675
4825C/1424	2	17	0.02	0.01	15	0.08	0.03	-	-	0.089	17	1.24	0.16	15	1.40	0.31	-	-	0.625	17	54.71	9.31	15	44.00	10.67	-	-	0.345
453C/453	2	14	0.18	0.05	20	0.09	0.03	-	+	0.107	14	1.93	0.32	20	1.15	0.22	-	+	0.047	14	66.96	7.22	20	16.75	3.99	-	.	0.000
601C/601	2	18	0.03	0.02	17	0.00	0.00	-	+	0.190	18	1.17	0.15	17	0.53	0.12	-	+	0.002	18	37.92	8.10	17	34.56	10.46	-	.	0.436
598C/598	2	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.41	0.12	20	0.50	0.11	-	-	0.604	17	11.32	5.52	20	35.00	9.63	-	-	0.069
1522C/1522	2	18	0.04	0.02	14	0.07	0.03	-	-	0.429	18	1.00	0.18	14	1.29	0.22	-	-	0.320	18	48.06	8.48	14	56.79	12.39	-	-	0.420
Habitat Means			0.05	0.02		0.05	0.02		-			1.15	0.19		0.97	0.20		-			43.80	7.72		37.44	9.44		+	
Fisher's		Power	0.054			Power-50%	0.817	P-value		0.358 y	Power	0.088			Power-50%	1.000	P-value		0.586xy	Power	---			Power-50%	---	P-value		0.003x
Stouffer's		Power	0.002			Power-50%	0.855	P-value		0.776	Power	0.002			Power-50%	1.000	P-value		0.860	Power	0.245			Power-50%	0.992	P-value		0.213
4825C/1424	3	11	0.09	0.04	12	0.28	0.07	-	-	0.042	11	1.64	0.24	12	3.25	0.57	-	-	0.019	11	88.64	6.99	12	75.83	8.29	-	.	0.162
453C/453	3	11	0.18	0.05	15	0.13	0.04	-	+	0.388	11	2.18	0.23	15	1.53	0.29	-	+	0.111	11	81.59	7.49	15	26.17	7.76	-	-	0.000
601C/601	3	15	0.18	0.04	11	0.05	0.03	-	+	0.022	15	2.20	0.30	11	1.27	0.27	-	+	0.036	15	68.00	8.10	11	60.68	12.79	-	+	0.467
598C/598	3	14	0.17	0.05	19	0.04	0.02	-	+	0.026	14	2.14	0.33	19	1.16	0.14	-	+	0.013	14	57.50	10.58	19	62.50	9.26	-	-	0.918
1522C/1522	3	17	0.00	0.00	9	0.25	0.06	-	-	0.002	17	1.00	0.09	9	2.89	0.42	-	-	0.002	17	62.50	8.61	9	91.11	2.89	-	-	0.012
Habitat Means			0.13	0.04		0.15	0.05		+			1.83	0.24		2.02	0.34		+			71.64	8.36		63.26	8.22		+	
Fisher's		Power	---			Power-50%	---	P-value		0.020xy	Power	---			Power-50%	---	P-value		0.008xy	Power	---			Power-50%	---	P-value		0.001x
Stouffer's		Power	---			Power-50%	---	P-value		0.035	Power	---			Power-50%	---	P-value		0.011	Power	---			Power-50%	---	P-value		0.034

(a) Modified Shannon Index.
(b) Taxa richness calculations are explained in the methods.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Invertebrates								Rock								Perennials (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	18	2.08	0.65	15	29.67	9.48	-	-	0.012	18	64.58	7.89	15	56.00	9.70	-	+	0.723	18	33.33	7.67	15	14.33	7.44	-	-	0.030
453C/453	1	18	4.17	1.83	20	4.75	1.89	-	-	0.718	18	53.75	7.26	20	71.50	7.14	-	-	0.086	18	41.81	7.60	20	23.50	7.38	-	-	0.058
601C/601	1	18	5.69	2.13	21	3.21	1.04	-	+	0.147	18	81.53	5.44	21	83.45	5.84	-	-	0.631	18	12.78	5.05	21	13.33	6.09	-	-	0.730
598C/598	1	18	8.19	2.48	21	4.17	1.17	-	+	0.089	18	91.39	2.60	21	94.05	1.47	-	-	0.356	18	0.28	0.19	21	1.79	1.23	-	-	0.328
1522C/1522	1	18	13.89	4.81	20	5.38	1.26	-	+	0.231	18	53.33	6.90	20	54.75	8.81	-	-	0.876	18	32.78	8.26	20	39.88	9.32	-	-	0.505
Habitat Means			6.82	2.38		9.46	2.98		+			68.92	6.02		71.98	6.58		-			24.20	5.78		18.56	6.28		-	
Fisher's		Power	---			Power-50%	---	P-value		0.082xy	Power	0.046			Power-50%	1.000	P-value		0.147	Power	0.004			Power-50%	0.974	P-value		0.583xy
Stouffer's		Power	---			Power-50%	---	P-value		0.086	Power	---			Power-50%	---	P-value		0.043	Power	0.002			Power-50%	0.978	P-value		0.629
4825C/1424	2	17	6.03	4.54	15	11.00	2.67	-	-	0.081	17	39.26	8.68	15	45.00	9.12	-	-	0.620	17	53.82	9.39	15	43.33	10.46	-	-	0.396
453C/453	2	14	4.11	1.10	20	18.88	3.17	-	-	0.001	14	28.93	6.88	20	64.38	4.62	-	-	0.000	14	65.54	7.21	20	13.13	3.40	-	-	0.000
601C/601	2	18	12.92	4.96	17	8.24	1.85	-	+	0.878	18	49.03	7.24	17	56.91	9.64	-	-	0.493	18	37.64	8.12	17	34.56	10.46	-	.	0.446
598C/598	2	17	15.29	3.80	20	12.88	3.01	-	.	0.388	17	69.12	7.04	20	52.12	8.08	-	+	0.115	17	11.32	5.52	20	35.00	9.63	-	-	0.069
1522C/1522	2	18	21.67	6.48	14	5.18	2.41	-	+	0.017	18	30.28	5.87	14	38.04	11.23	-	-	0.739	18	47.50	8.50	14	55.89	12.43	-	-	0.444
Habitat Means			12.00	4.18		11.24	2.64		+			43.32	7.14		51.28	8.52		-			43.14	7.74		36.38	9.28		+	
Fisher's		Power	0.153			Power-50%	0.964	P-value		0.149x	Power	---			Power-50%	---	P-value		0.004	Power	---			Power-50%	---	P-value		0.003x
Stouffer's		Power	0.002			Power-50%	0.975	P-value		0.812	Power	0.053			Power-50%	0.986	P-value		0.148	Power	0.332			Power-50%	0.992	P-value		0.215
4825C/1424	3	11	0.23	0.23	12	0.42	0.42	-	-	0.858	11	5.68	2.96	12	23.75	8.37	-	-	0.052	11	77.27	9.96	12	68.54	9.73	-	+	0.376
453C/453	3	11	2.05	1.61	15	11.67	4.80	-	-	0.076	11	16.36	7.32	15	62.17	9.49	-	-	0.001	11	72.95	10.64	15	22.17	7.92	-	+	0.001
601C/601	3	15	5.83	3.04	11	0.45	0.45	-	+	0.057	15	26.17	7.60	11	19.32	9.83	-	+	0.713	15	57.17	8.86	11	57.27	12.41	-	-	0.883
598C/598	3	14	5.54	2.78	19	3.68	1.94	-	+	0.651	14	26.79	8.24	19	21.71	6.76	-	+	0.649	14	40.18	7.66	19	54.87	9.57	-	-	0.296
1522C/1522	3	17	3.38	1.42	9	0.00	0.00	-	+	0.003	17	23.68	6.27	9	8.89	2.89	-	+	0.168	17	62.50	8.61	9	88.06	2.63	-	-	0.032
Habitat Means			3.40	1.80		3.26	1.52		+			19.76	6.48		27.18	7.48		+			62.04	9.16		58.20	8.44		-	
Fisher's		Power	---			Power-50%	---	P-value		0.010x	Power	0.077			Power-50%	0.877	P-value		0.502xy	Power	0.154			Power-50%	0.968	P-value		0.166xy
Stouffer's		Power	0.336			Power-50%	0.903	P-value		0.332	Power	0.005			Power-50%	0.913	P-value		0.897	Power	0.014			Power-50%	0.977	P-value		0.743

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.19. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. August 1993. Undisturbed. (Continued.)

		Annuals (A)								Ephemerals (AE)																			
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	18	0.00	0.00	15	0.00	0.00	-	o	1.000	18	0.00	0.00	15	0.00	0.00	-	o	1.000									
453C/453	1	18	0.28	0.19	20	0.25	0.25	-	+	0.702	18	0.00	0.00	20	0.00	0.00	-	o	1.000									
601C/601	1	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000									
598C/598	1	18	0.14	0.14	21	0.00	0.00	-	+	0.331	18	0.00	0.00	21	0.00	0.00	-	o	1.000									
1522C/1522	1	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000									
Habitat Means			0.08	0.06		0.06	0.06		+			0.00	0.00		0.00	0.00		o										
Fisher's		Power	0.006		Power-50%		0.003	P-value		0.454	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.006		Power-50%		0.006	P-value		0.169	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
4825C/1424	2	17	0.88	0.43	15	0.67	0.45	-	+	0.609	17	0.88	0.43	15	0.17	0.17	-	+	0.151									
453C/453	2	14	1.43	0.86	20	3.63	2.17	-	-	0.626	14	0.00	0.00	20	3.38	2.12	-	-	0.071									
601C/601	2	18	0.28	0.28	17	0.00	0.00	-	+	0.331	18	0.28	0.28	17	0.00	0.00	-	+	0.331									
598C/598	2	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000									
1522C/1522	2	18	0.56	0.43	14	0.89	0.62	-	-	0.692	18	0.14	0.14	14	0.00	0.00	-	+	0.331									
Habitat Means			0.64	0.40		1.04	0.66		+			0.26	0.16		0.72	0.46		+										
Fisher's		Power	0.020		Power-50%		0.478	P-value		0.536 y	Power	0.029		Power-50%		0.095	P-value		0.181xy	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.027		Power-50%		0.576	P-value		0.518	Power	0.005		Power-50%		0.148	P-value		0.630	Power	---		Power-50%		---	P-value		
4825C/1424	3	11	11.36	7.17	12	7.29	2.93	-	+	0.953	11	11.14	6.96	12	0.21	0.21	-	-	0.104									
453C/453	3	11	8.64	6.98	15	4.00	1.79	-	+	0.705	11	0.00	0.00	15	3.50	1.50	-	-	0.014									
601C/601	3	15	10.83	4.42	11	3.41	2.94	-	+	0.125	15	10.33	4.39	11	3.41	2.94	-	-	0.165									
598C/598	3	14	17.32	6.62	19	7.63	5.40	-	+	0.123	14	17.14	6.58	19	7.63	5.40	-	+	0.125									
1522C/1522	3	17	0.00	0.00	9	3.06	1.16	-	-	0.018	17	0.00	0.00	9	0.28	0.28	-	-	0.347									
Habitat Means			9.62	5.04		5.08	2.84		+			7.70	3.60		3.00	2.06		-										
Fisher's		Power	0.221		Power-50%		0.728	P-value		0.143x	Power	---		Power-50%		---	P-value		0.078x	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.070		Power-50%		0.807	P-value		0.102	Power	0.059		Power-50%		0.645	P-value		0.404	Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.20. Algal Percent Cover. Chlorophyta. Prince William Sound. Sheltered Rocky. August 1993. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group: Bladed Greens								Bladed Greens (AE) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	18	0.00	0.00	15	0.00	0.00	-	o	1.000	18	0.00	0.00	15	0.00	0.00	-	o	1.000	18	0.00	0.00	15	0.00	0.00	-	o	1.000
453C/453	1	18	0.14	0.14	20	0.00	0.00	-	+	0.331	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000
601C/601	1	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000
598C/598	1	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000
1522C/1522	1	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000
Habitat Means			0.02	0.02		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.519	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.303	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	17	0.88	0.43	15	0.67	0.45	-	+	0.609	17	0.00	0.00	15	0.17	0.17	-	-	0.334	17	0.00	0.00	15	0.17	0.17	-	-	0.334
453C/453	2	14	0.18	0.18	20	3.38	2.12	-	-	0.129	14	0.00	0.00	20	0.00	0.00	-	o	1.000	14	0.00	0.00	20	0.00	0.00	-	o	1.000
601C/601	2	18	0.28	0.28	17	0.00	0.00	-	+	0.331	18	0.00	0.00	17	0.00	0.00	-	o	1.000	18	0.00	0.00	17	0.00	0.00	-	o	1.000
598C/598	2	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000
1522C/1522	2	18	0.56	0.43	14	0.54	0.54	-	+	0.868	18	0.00	0.00	14	0.00	0.00	-	o	1.000	18	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.40	0.26		0.92	0.62		+			0.00	0.00		0.04	0.04		-			0.00	0.00		0.04	0.04		-	
Fisher's		Power	0.015		Power-50%		0.207	P-value		0.517 y	Power	---		Power-50%		---	P-value		0.521	Power	---		Power-50%		---	P-value		0.521
Stouffer's		Power	0.007		Power-50%		0.311	P-value		0.682	Power	---		Power-50%		---	P-value		0.447	Power	---		Power-50%		---	P-value		0.447
4825C/1424	3	11	11.14	6.96	12	1.25	0.84	-	-	0.202	11	0.00	0.00	12	0.21	0.21	-	-	0.339	11	0.00	0.00	12	0.21	0.21	-	-	0.339
453C/453	3	11	1.14	1.14	15	3.50	1.50	-	-	0.155	11	0.00	0.00	15	0.17	0.17	-	-	0.334	11	0.00	0.00	15	0.17	0.17	-	-	0.334
601C/601	3	15	10.33	4.39	11	3.41	2.94	-	+	0.165	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	0.00	0.00	11	0.00	0.00	-	o	1.000
598C/598	3	14	16.96	6.58	19	7.63	5.40	-	+	0.129	14	0.00	0.00	19	0.00	0.00	-	o	1.000	14	0.00	0.00	19	0.00	0.00	-	o	1.000
1522C/1522	3	17	0.00	0.00	9	0.56	0.37	-	-	0.169	17	0.00	0.00	9	0.28	0.28	-	-	0.347	17	0.00	0.00	9	0.28	0.28	-	-	0.347
Habitat Means			7.90	3.82		3.28	2.20		+			0.00	0.00		0.14	0.14		-			0.00	0.00		0.14	0.14		-	
Fisher's		Power	0.312		Power-50%		0.612	P-value		0.119	Power	---		Power-50%		---	P-value		0.202	Power	---		Power-50%		---	P-value		0.202
Stouffer's		Power	0.120		Power-50%		0.683	P-value		0.262	Power	---		Power-50%		---	P-value		0.200	Power	---		Power-50%		---	P-value		0.200

(a) Kornmannia, Monostroma, Ulva and Ulvaria.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Fine Filamentous Greens								Acrosiphonia sp. (A)								Chaetomorpha/Rhizoclonium (A) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	18	0.00	0.00	15	0.00	0.00	-	o	1.000	18	0.00	0.00	15	0.00	0.00	-	o	1.000	18	0.00	0.00	15	0.00	0.00	-	o	1.000
453C/453	1	18	0.14	0.14	20	0.00	0.00	-	+	0.331	18	0.14	0.14	20	0.00	0.00	-	+	0.331	18	0.00	0.00	20	0.00	0.00	-	o	1.000
601C/601	1	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000
598C/598	1	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000
1522C/1522	1	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000
Habitat Means			0.02	0.02		0.00	0.00		+			0.02	0.02		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.519	Power	---		Power-50%		---	P-value		0.519	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.303	Power	---		Power-50%		---	P-value		0.303	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	17	0.88	0.43	15	0.50	0.36	-	+	0.485	17	0.00	0.00	15	0.50	0.36	-	-	0.171	17	0.00	0.00	15	0.00	0.00	-	o	1.000
453C/453	2	14	0.18	0.18	20	3.38	2.12	-	-	0.129	14	0.18	0.18	20	0.00	0.00	-	+	0.336	14	0.00	0.00	20	0.00	0.00	-	o	1.000
601C/601	2	18	0.28	0.28	17	0.00	0.00	-	+	0.331	18	0.00	0.00	17	0.00	0.00	-	o	1.000	18	0.00	0.00	17	0.00	0.00	-	o	1.000
598C/598	2	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000
1522C/1522	2	18	0.56	0.43	14	0.54	0.54	-	+	0.868	18	0.42	0.42	14	0.54	0.54	-	-	0.860	18	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.40	0.26		0.88	0.60		+			0.12	0.12		0.20	0.18		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.018		Power-50%		0.244	P-value		0.475 y	Power	0.002		Power-50%		---	P-value		0.463	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.009		Power-50%		0.330	P-value		0.673	Power	0.001		Power-50%		---	P-value		0.612	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	11	11.14	6.96	12	1.04	0.84	-	+	0.165	11	0.00	0.00	12	1.04	0.84	-	-	0.192	11	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	3	11	1.14	1.14	15	3.33	1.50	-	-	0.173	11	1.14	1.14	15	0.00	0.00	-	+	0.341	11	0.00	0.00	15	0.00	0.00	-	o	1.000
601C/601	3	15	10.33	4.39	11	3.41	2.94	-	+	0.165	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	0.00	0.00	11	0.00	0.00	-	o	1.000
598C/598	3	14	16.96	6.58	19	7.63	5.40	-	+	0.129	14	0.00	0.00	19	0.00	0.00	-	o	1.000	14	0.00	0.00	19	0.00	0.00	-	o	1.000
1522C/1522	3	17	0.00	0.00	9	0.28	0.28	-	-	0.347	17	0.00	0.00	9	0.28	0.28	-	-	0.347	17	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			7.90	3.82		3.12	2.18		+			0.22	0.22		0.26	0.22		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.099	Power	0.000		Power-50%		---	P-value		0.332	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.169		Power-50%		0.687	P-value		0.220	Power	0.000		Power-50%		---	P-value		0.551	Power	---		Power-50%		---	P-value		0.500

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.20. Algal Percent Cover. Chlorophyta. Prince William Sound. Sheltered Rocky. August 1993. Undisturbed. (Continued.)

Site Pair	Mvd	Cladophora sp. (AE) N	C	SE	N	O	SE	CV	D	P	Ulothrix sp. (AE) N	C	SE	N	O	SE	CV	D	P	Urospora sp. (AE) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	18	0.00	0.00	15	0.00	0.00	-	o	1.000	18	0.00	0.00	15	0.00	0.00	-	o	1.000	18	0.00	0.00	15	0.00	0.00	-	o	1.000
453C/453	1	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000
601C/601	1	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000
598C/598	1	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000
1522C/1522	1	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50% ---			P-value		0.732	Power ---			Power-50% ---			P-value		0.732	Power ---			Power-50% ---			P-value		0.732
Stouffer's		Power ---			Power-50% ---			P-value		0.500	Power ---			Power-50% ---			P-value		0.500	Power ---			Power-50% ---			P-value		0.500
4825C/1424	2	17	0.88	0.43	15	0.00	0.00	-	+	0.045	17	0.00	0.00	15	0.00	0.00	-	o	1.000	17	0.00	0.00	15	0.00	0.00	-	o	1.000
453C/453	2	14	0.00	0.00	20	3.38	2.12	-	-	0.071	14	0.00	0.00	20	0.00	0.00	-	o	1.000	14	0.00	0.00	20	0.00	0.00	-	o	1.000
601C/601	2	18	0.28	0.28	17	0.00	0.00	-	+	0.331	18	0.00	0.00	17	0.00	0.00	-	o	1.000	18	0.00	0.00	17	0.00	0.00	-	o	1.000
598C/598	2	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000
1522C/1522	2	18	0.14	0.14	14	0.00	0.00	-	+	0.331	18	0.00	0.00	14	0.00	0.00	-	o	1.000	18	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.26	0.16		0.68	0.42		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50% ---			P-value		0.093xy	Power ---			Power-50% ---			P-value		0.732	Power ---			Power-50% ---			P-value		0.732
Stouffer's		Power 0.011			Power-50% 0.152			P-value		0.600	Power ---			Power-50% ---			P-value		0.500	Power ---			Power-50% ---			P-value		0.500
4825C/1424	3	11	11.14	6.96	12	0.00	0.00	-	+	0.083	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	3	11	0.00	0.00	15	3.33	1.50	-	-	0.016	11	0.00	0.00	15	0.00	0.00	-	o	1.000	11	0.00	0.00	15	0.00	0.00	-	o	1.000
601C/601	3	15	10.33	4.39	11	3.41	2.94	-	+	0.165	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	0.00	0.00	11	0.00	0.00	-	o	1.000
598C/598	3	14	16.96	6.58	19	7.63	5.40	-	+	0.129	14	0.00	0.00	19	0.00	0.00	-	o	1.000	14	0.00	0.00	19	0.00	0.00	-	o	1.000
1522C/1522	3	17	0.00	0.00	9	0.00	0.00	-	o	1.000	17	0.00	0.00	9	0.00	0.00	-	o	1.000	17	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			7.68	3.60		2.86	1.96		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50% ---			P-value		0.051x	Power ---			Power-50% ---			P-value		0.732	Power ---			Power-50% ---			P-value		0.732
Stouffer's		Power 0.117			Power-50% 0.642			P-value		0.321	Power ---			Power-50% ---			P-value		0.500	Power ---			Power-50% ---			P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Morphological Group: Tubular and Saccate Greens

Site Pair	Mvd	Blidingia/Enteromorpha (AE) (a) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	18	0.00	0.00	15	0.00	0.00	-	o	1.000	18	0.00	0.00	15	0.00	0.00	-	o	1.000									
453C/453	1	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000									
601C/601	1	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000									
598C/598	1	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000									
1522C/1522	1	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power ---			Power-50% ---			P-value		0.732	Power ---			Power-50% ---			P-value		0.732	Power ---			Power-50% ---			P-value		
Stouffer's		Power ---			Power-50% ---			P-value		0.500	Power ---			Power-50% ---			P-value		0.500	Power ---			Power-50% ---			P-value		
4825C/1424	2	17	0.00	0.00	15	0.00	0.00	-	o	1.000	17	0.00	0.00	15	0.00	0.00	-	o	1.000									
453C/453	2	14	0.00	0.00	20	0.00	0.00	-	o	1.000	14	0.00	0.00	20	0.00	0.00	-	o	1.000									
601C/601	2	18	0.00	0.00	17	0.00	0.00	-	o	1.000	18	0.00	0.00	17	0.00	0.00	-	o	1.000									
598C/598	2	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000									
1522C/1522	2	18	0.00	0.00	14	0.00	0.00	-	o	1.000	18	0.00	0.00	14	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power ---			Power-50% ---			P-value		0.732	Power ---			Power-50% ---			P-value		0.732	Power ---			Power-50% ---			P-value		
Stouffer's		Power ---			Power-50% ---			P-value		0.500	Power ---			Power-50% ---			P-value		0.500	Power ---			Power-50% ---			P-value		
4825C/1424	3	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000									
453C/453	3	11	0.00	0.00	15	0.00	0.00	-	o	1.000	11	0.00	0.00	15	0.00	0.00	-	o	1.000									
601C/601	3	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	0.00	0.00	11	0.00	0.00	-	o	1.000									
598C/598	3	14	0.00	0.00	19	0.00	0.00	-	o	1.000	14	0.00	0.00	19	0.00	0.00	-	o	1.000									
1522C/1522	3	17	0.00	0.00	9	0.00	0.00	-	o	1.000	17	0.00	0.00	9	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power ---			Power-50% ---			P-value		0.732	Power ---			Power-50% ---			P-value		0.732	Power ---			Power-50% ---			P-value		
Stouffer's		Power ---			Power-50% ---			P-value		0.500	Power ---			Power-50% ---			P-value		0.500	Power ---			Power-50% ---			P-value		

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.21. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. August 1993. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta							Morphological Group: Bladed Browns							Total Fucus gardneri (P)						
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	18	33.06	7.61	15	3.00	1.57	-	+	0.000	18	33.06	7.61	15	3.00	1.57	-	+	0.000	18	33.06	7.61	15	3.00	1.57	-	-	0.000
453C/453	1	18	38.75	7.34	20	23.13	7.34	-	+	0.105	18	38.75	7.34	20	22.87	7.33	-	+	0.101	18	38.75	7.34	20	22.87	7.33	-	-	0.101
601C/601	1	18	10.56	5.06	21	13.21	6.10	-	-	0.979	18	10.56	5.06	21	13.21	6.10	-	-	0.979	18	10.56	5.06	21	13.21	6.10	-	-	0.979
598C/598	1	18	0.28	0.19	21	1.79	1.23	-	-	0.328	18	0.28	0.19	21	1.79	1.23	-	-	0.328	18	0.28	0.19	21	1.79	1.23	-	-	0.328
1522C/1522	1	18	32.78	8.26	20	39.75	9.35	-	-	0.539	18	32.78	8.26	20	39.75	9.35	-	-	0.539	18	32.78	8.26	20	39.75	9.35	-	-	0.539
Habitat Means			23.12	5.70		16.18	5.12		-			23.12	5.70		16.14	5.12		-			23.12	5.70		16.14	5.12		-	
Fisher's		Power	0.011			Power-50%	0.976	P-value		0.651xy	Power	0.011			Power-50%	0.976	P-value		0.651xy	Power	0.013			Power-50%	0.958	P-value		0.651xy
Stouffer's		Power	0.000			Power-50%	0.980	P-value		0.677	Power	0.000			Power-50%	0.977	P-value		0.681	Power	0.000			Power-50%	0.967	P-value		0.681
4825C/1424	2	17	53.53	9.35	15	35.83	9.36	-	+	0.148	17	53.53	9.35	15	35.83	9.36	-	+	0.148	17	53.53	9.35	15	35.83	9.36	-	-	0.148
453C/453	2	14	48.57	7.93	20	12.13	3.28	-	+	0.000	14	47.32	8.07	20	11.88	3.30	-	+	0.000	14	47.32	8.07	20	11.88	3.30	-	-	0.000
601C/601	2	18	36.39	8.23	17	34.56	10.46	-	+	0.531	18	36.39	8.23	17	34.56	10.46	-	+	0.531	18	36.39	8.23	17	34.56	10.46	-	+	0.531
598C/598	2	17	11.32	5.52	20	35.00	9.63	-	-	0.069	17	11.32	5.52	20	35.00	9.63	-	-	0.069	17	11.32	5.52	20	35.00	9.63	-	-	0.069
1522C/1522	2	18	46.53	8.43	14	53.21	12.09	-	-	0.538	18	46.53	8.43	14	52.86	12.19	-	-	0.563	18	46.53	8.43	14	52.86	12.19	-	-	0.563
Habitat Means			39.26	7.88		34.14	8.98		+			39.00	7.92		34.04	9.00		+			39.00	7.92		34.04	9.00		-	
Fisher's		Power	---			Power-50%	---	P-value		0.002x	Power	---			Power-50%	---	P-value		0.002x	Power	---			Power-50%	---	P-value		0.002x
Stouffer's		Power	0.279			Power-50%	0.989	P-value		0.192	Power	0.294			Power-50%	0.990	P-value		0.190	Power	0.306			Power-50%	0.985	P-value		0.190
4825C/1424	3	11	67.50	11.69	12	59.58	10.21	-	+	0.531	11	67.50	11.69	12	59.58	10.21	-	+	0.531	11	67.50	11.69	12	59.58	10.21	-	+	0.531
453C/453	3	11	56.82	11.27	15	22.00	7.89	-	+	0.018	11	56.36	11.45	15	21.50	7.95	-	+	0.019	11	56.36	11.45	15	21.50	7.95	-	-	0.019
601C/601	3	15	48.17	9.37	11	56.59	12.28	-	-	0.685	15	48.00	9.43	11	56.59	12.28	-	-	0.653	15	48.00	9.43	11	56.59	12.28	-	-	0.653
598C/598	3	14	37.50	7.55	19	54.08	9.40	-	-	0.249	14	37.32	7.51	19	54.08	9.40	-	-	0.244	14	37.32	7.51	19	54.08	9.40	-	-	0.244
1522C/1522	3	17	62.35	8.60	9	63.06	8.72	-	-	0.936	17	62.35	8.60	9	61.94	9.24	-	-	0.864	17	62.35	8.60	9	61.94	9.24	-	+	0.864
Habitat Means			54.48	9.72		51.08	9.70		-			54.32	9.74		50.74	9.82		+			54.32	9.74		50.74	9.82		+	
Fisher's		Power	0.090			Power-50%	0.942	P-value		0.584xy	Power	0.297			Power-50%	0.942	P-value		0.142	Power	0.279			Power-50%	0.931	P-value		0.142
Stouffer's		Power	0.012			Power-50%	0.961	P-value		0.630	Power	0.106			Power-50%	0.961	P-value		0.358	Power	0.105			Power-50%	0.962	P-value		0.358

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Adult Fucus gardneri (P) (> 2cm)							Juvenile Fucus gardneri (P) (<= 2cm)							Fucus Stipes (P) (a)						
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	18	29.03	7.09	15	3.00	1.57	-	+	0.001	18	4.03	3.88	15	0.00	0.00	-	+	0.264	18	0.00	0.00	15	0.00	0.00	-	o	1.000
453C/453	1	18	38.75	7.34	20	22.87	7.33	-	+	0.101	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000
601C/601	1	18	10.28	5.05	21	13.21	6.10	-	-	0.910	18	0.28	0.19	21	0.00	0.00	-	+	0.163	18	0.00	0.00	21	0.00	0.00	-	o	1.000
598C/598	1	18	0.14	0.14	21	1.79	1.23	-	-	0.198	18	0.14	0.14	21	0.00	0.00	-	+	0.331	18	0.00	0.00	21	0.00	0.00	-	o	1.000
1522C/1522	1	18	32.78	8.26	20	39.63	9.37	-	-	0.552	18	0.00	0.00	20	0.13	0.12	-	-	0.330	18	0.00	0.00	20	0.00	0.00	-	o	1.000
Habitat Means			22.20	5.58		16.10	5.12		-			0.88	0.84		0.02	0.02		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.009			Power-50%	0.963	P-value		0.544xy	Power	0.008			Power-50%	0.006	P-value		0.155	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	0.000			Power-50%	0.960	P-value		0.579	Power	0.045			Power-50%	0.039	P-value		0.152	Power	---			Power-50%	---	P-value		0.500
4825C/1424	2	17	52.94	9.54	15	35.83	9.36	-	+	0.188	17	0.59	0.59	15	0.00	0.00	-	+	0.332	17	0.00	0.00	15	0.00	0.00	-	o	1.000
453C/453	2	14	46.96	8.07	20	9.63	3.02	-	+	0.000	14	0.36	0.36	20	2.25	1.26	-	-	0.140	14	0.00	0.00	20	0.00	0.00	-	o	1.000
601C/601	2	18	36.11	8.26	17	34.56	10.46	-	+	0.544	18	0.28	0.28	17	0.00	0.00	-	+	0.331	18	0.14	0.14	17	0.00	0.00	-	+	0.331
598C/598	2	17	11.03	5.55	20	34.88	9.65	-	-	0.068	17	0.29	0.29	20	0.13	0.12	-	+	0.724	17	0.00	0.00	20	0.00	0.00	-	o	1.000
1522C/1522	2	18	46.39	8.41	14	52.86	12.19	-	-	0.557	18	0.14	0.14	14	0.00	0.00	-	+	0.331	18	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			38.68	7.98		33.56	8.96		+			0.34	0.34		0.48	0.28		+			0.02	0.02		0.00	0.00		+	
Fisher's		Power	---			Power-50%	---	P-value		0.002x	Power	0.029			Power-50%	---	P-value		0.226 y	Power	---			Power-50%	---	P-value		0.519
Stouffer's		Power	0.346			Power-50%	0.994	P-value		0.199	Power	0.060			Power-50%	---	P-value		0.479	Power	---			Power-50%	---	P-value		0.411
4825C/1424	3	11	66.14	11.63	12	59.58	10.21	-	+	0.581	11	1.36	0.97	12	0.00	0.00	-	+	0.174	11	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	3	11	56.36	11.45	15	18.83	7.94	-	+	0.010	11	0.00	0.00	15	2.67	1.26	-	-	0.026	11	0.00	0.00	15	0.00	0.00	-	o	1.000
601C/601	3	15	48.00	9.43	11	56.59	12.28	-	-	0.653	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	0.00	0.00	11	0.00	0.00	-	o	1.000
598C/598	3	14	37.32	7.51	19	54.08	9.40	-	-	0.244	14	0.00	0.00	19	0.00	0.00	-	o	1.000	14	0.00	0.00	19	0.00	0.00	-	o	1.000
1522C/1522	3	17	62.35	8.60	9	61.94	9.24	-	+	0.864	17	0.00	0.00	9	0.00	0.00	-	o	1.000	17	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			54.04	9.72		50.20	9.80		+			0.28	0.20		0.54	0.26		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.340			Power-50%	0.948	P-value		0.105	Power	0.017			Power-50%	0.000	P-value		0.221	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	0.121			Power-50%	0.961	P-value		0.319	Power	0.000			Power-50%	0.000	P-value		0.160	Power	---			Power-50%	---	P-value		0.500

(a) Dead Fucus plants or stipes without blades.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.21. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. August 1993. Undisturbed. (Continued.)

Site Pair	Mvd	Petalonia/Punctaria (AE) (b) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Coarse Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Dictyosiphon sp. (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	18	0.00	0.00	15	0.00	0.00	-	o	1.000	18	0.00	0.00	15	0.00	0.00	-	o	1.000	18	0.00	0.00	15	0.00	0.00	-	o	1.000
453C/453	1	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000
601C/601	1	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000
598C/598	1	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000
1522C/1522	1	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50%	---		P-value		0.732	Power ---			Power-50%	---		P-value		0.732	Power ---			Power-50%	---		P-value		0.732
Stouffer's		Power ---			Power-50%	---		P-value		0.500	Power ---			Power-50%	---		P-value		0.500	Power ---			Power-50%	---		P-value		0.500
4825C/1424	2	17	0.00	0.00	15	0.00	0.00	-	o	1.000	17	0.00	0.00	15	0.00	0.00	-	o	1.000	17	0.00	0.00	15	0.00	0.00	-	o	1.000
453C/453	2	14	0.00	0.00	20	0.00	0.00	-	o	1.000	14	0.00	0.00	20	0.00	0.00	-	o	1.000	14	0.00	0.00	20	0.00	0.00	-	o	1.000
601C/601	2	18	0.00	0.00	17	0.00	0.00	-	o	1.000	18	0.00	0.00	17	0.00	0.00	-	o	1.000	18	0.00	0.00	17	0.00	0.00	-	o	1.000
598C/598	2	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000
1522C/1522	2	18	0.00	0.00	14	0.00	0.00	-	o	1.000	18	0.00	0.00	14	0.00	0.00	-	o	1.000	18	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50%	---		P-value		0.732	Power ---			Power-50%	---		P-value		0.732	Power ---			Power-50%	---		P-value		0.732
Stouffer's		Power ---			Power-50%	---		P-value		0.500	Power ---			Power-50%	---		P-value		0.500	Power ---			Power-50%	---		P-value		0.500
4825C/1424	3	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	3	11	0.00	0.00	15	0.00	0.00	-	o	1.000	11	0.00	0.00	15	0.00	0.00	-	o	1.000	11	0.00	0.00	15	0.00	0.00	-	o	1.000
601C/601	3	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	0.00	0.00	11	0.00	0.00	-	o	1.000
598C/598	3	14	0.00	0.00	19	0.00	0.00	-	o	1.000	14	0.00	0.00	19	0.00	0.00	-	o	1.000	14	0.00	0.00	19	0.00	0.00	-	o	1.000
1522C/1522	3	17	0.00	0.00	9	0.00	0.00	-	o	1.000	17	0.00	0.00	9	0.00	0.00	-	o	1.000	17	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50%	---		P-value		0.732	Power ---			Power-50%	---		P-value		0.732	Power ---			Power-50%	---		P-value		0.732
Stouffer's		Power ---			Power-50%	---		P-value		0.500	Power ---			Power-50%	---		P-value		0.500	Power ---			Power-50%	---		P-value		0.500

(b) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Fine Filamentous Browns (AE) (b) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	18	0.00	0.00	15	0.00	0.00	-	o	1.000	18	0.00	0.00	15	0.00	0.00	-	o	1.000	18	0.00	0.00	15	0.00	0.00	-	o	1.000
453C/453	1	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000
601C/601	1	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000
598C/598	1	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000
1522C/1522	1	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50%	---		P-value		0.732	Power ---			Power-50%	---		P-value		0.732	Power ---			Power-50%	---		P-value		0.732
Stouffer's		Power ---			Power-50%	---		P-value		0.500	Power ---			Power-50%	---		P-value		0.500	Power ---			Power-50%	---		P-value		0.500
4825C/1424	2	17	0.00	0.00	15	0.00	0.00	-	o	1.000	17	0.00	0.00	15	0.00	0.00	-	o	1.000	17	0.00	0.00	15	0.00	0.00	-	o	1.000
453C/453	2	14	0.00	0.00	20	0.00	0.00	-	o	1.000	14	0.00	0.00	20	0.00	0.00	-	o	1.000	14	0.00	0.00	20	0.00	0.00	-	o	1.000
601C/601	2	18	0.00	0.00	17	0.00	0.00	-	o	1.000	18	0.00	0.00	17	0.00	0.00	-	o	1.000	18	0.00	0.00	17	0.00	0.00	-	o	1.000
598C/598	2	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000
1522C/1522	2	18	0.00	0.00	14	0.00	0.00	-	o	1.000	18	0.00	0.00	14	0.00	0.00	-	o	1.000	18	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50%	---		P-value		0.732	Power ---			Power-50%	---		P-value		0.732	Power ---			Power-50%	---		P-value		0.732
Stouffer's		Power ---			Power-50%	---		P-value		0.500	Power ---			Power-50%	---		P-value		0.500	Power ---			Power-50%	---		P-value		0.500
4825C/1424	3	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	3	11	0.00	0.00	15	0.00	0.00	-	o	1.000	11	0.00	0.00	15	0.00	0.00	-	o	1.000	11	0.00	0.00	15	0.00	0.00	-	o	1.000
601C/601	3	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	0.00	0.00	11	0.00	0.00	-	o	1.000
598C/598	3	14	0.00	0.00	19	0.00	0.00	-	o	1.000	14	0.18	0.18	19	0.00	0.00	-	+	0.336	14	0.18	0.18	19	0.00	0.00	-	-	0.336
1522C/1522	3	17	0.00	0.00	9	0.00	0.00	-	o	1.000	17	0.00	0.00	9	0.00	0.00	-	o	1.000	17	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.04	0.04		0.00	0.00		+			0.04	0.04		0.00	0.00		+	
Fisher's		Power ---			Power-50%	---		P-value		0.732	Power ---			Power-50%	---		P-value		0.521	Power ---			Power-50%	---		P-value		0.521
Stouffer's		Power ---			Power-50%	---		P-value		0.500	Power ---			Power-50%	---		P-value		0.227	Power ---			Power-50%	---		P-value		0.227

(a) Genera not separated.

(b) Blachista, Ectocarpus and Pilayella.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.21. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. August 1993. Undisturbed. (Continued.)

Site Pair	Mvd	Morphological Group: Saccate Browns								Leathesia/Colpomenia (A) (a)								Soranthera ulvoidea (A)							
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	18	0.00	0.00	15	0.00	0.00	-	o	1.000	18	0.00	0.00	15	0.00	0.00	-	o	1.000	18	0.00	0.00	15	0.00	0.00	-	o	1.000
453C/453	1	18	0.00	0.00	20	0.25	0.25	-	-	0.330	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.25	0.25	-	-	0.330
601C/601	1	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000
598C/598	1	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000
1522C/1522	1	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.06	0.06		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.06	0.06		-	
Fisher's	Power		---		Power-50%		---	P-value		0.518	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.518
Stouffer's	Power		---		Power-50%		---	P-value		0.303	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.303
4825C/1424	2	17	0.00	0.00	15	0.00	0.00	-	o	1.000	17	0.00	0.00	15	0.00	0.00	-	o	1.000	17	0.00	0.00	15	0.00	0.00	-	o	1.000
453C/453	2	14	1.25	0.78	20	0.25	0.25	-	+	0.213	14	1.25	0.78	20	0.25	0.25	-	+	0.213	14	0.00	0.00	20	0.00	0.00	-	o	1.000
601C/601	2	18	0.00	0.00	17	0.00	0.00	-	o	1.000	18	0.00	0.00	17	0.00	0.00	-	o	1.000	18	0.00	0.00	17	0.00	0.00	-	o	1.000
598C/598	2	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000
1522C/1522	2	18	0.00	0.00	14	0.36	0.36	-	-	0.336	18	0.00	0.00	14	0.36	0.36	-	-	0.336	18	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.26	0.16		0.14	0.14		+			0.26	0.16		0.14	0.14		+			0.00	0.00		0.00	0.00		o	
Fisher's	Power		0.002		Power-50%		0.006	P-value		0.532	Power	0.003		Power-50%		0.007	P-value		0.532	Power	---		Power-50%		---	P-value		0.732
Stouffer's	Power		0.000		Power-50%		0.000	P-value		0.323	Power	0.000		Power-50%		0.001	P-value		0.323	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	3	11	0.45	0.30	15	0.50	0.36	-	-	0.904	11	0.23	0.23	15	0.50	0.36	-	-	0.648	11	0.23	0.23	15	0.00	0.00	-	-	0.341
601C/601	3	15	0.17	0.17	11	0.00	0.00	-	+	0.334	15	0.17	0.17	11	0.00	0.00	-	+	0.334	15	0.00	0.00	11	0.00	0.00	-	o	1.000
598C/598	3	14	0.00	0.00	19	0.00	0.00	-	o	1.000	14	0.00	0.00	19	0.00	0.00	-	o	1.000	14	0.00	0.00	19	0.00	0.00	-	o	1.000
1522C/1522	3	17	0.00	0.00	9	1.11	0.84	-	-	0.187	17	0.00	0.00	9	0.28	0.28	-	-	0.347	17	0.00	0.00	9	0.83	0.83	-	-	0.347
Habitat Means			0.14	0.10		0.32	0.24		-			0.08	0.08		0.16	0.14		-			0.04	0.04		0.16	0.16		+	
Fisher's	Power		0.002		Power-50%		0.017	P-value		0.488	Power	0.001		Power-50%		---	P-value		0.542	Power	---		Power-50%		---	P-value		0.621 y
Stouffer's	Power		0.001		Power-50%		0.018	P-value		0.454	Power	0.001		Power-50%		---	P-value		0.415	Power	---		Power-50%		---	P-value		0.378

(a) Genera not separated.

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Morphological Group: Crustose Browns								Ralfsia/Petroderma (P) (a)																	
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	18	0.00	0.00	15	0.00	0.00	-	o	1.000	18	0.00	0.00	15	0.00	0.00	-	o	1.000									
453C/453	1	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000									
601C/601	1	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000									
598C/598	1	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000									
1522C/1522	1	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's	Power		---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
4825C/1424	2	17	0.00	0.00	15	0.00	0.00	-	o	1.000	17	0.00	0.00	15	0.00	0.00	-	o	1.000									
453C/453	2	14	0.00	0.00	20	0.00	0.00	-	o	1.000	14	0.00	0.00	20	0.00	0.00	-	o	1.000									
601C/601	2	18	0.00	0.00	17	0.00	0.00	-	o	1.000	18	0.00	0.00	17	0.00	0.00	-	o	1.000									
598C/598	2	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000									
1522C/1522	2	18	0.00	0.00	14	0.00	0.00	-	o	1.000	18	0.00	0.00	14	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's	Power		---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
4825C/1424	3	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000									
453C/453	3	11	0.00	0.00	15	0.00	0.00	-	o	1.000	11	0.00	0.00	15	0.00	0.00	-	o	1.000									
601C/601	3	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	0.00	0.00	11	0.00	0.00	-	o	1.000									
598C/598	3	14	0.00	0.00	19	0.00	0.00	-	o	1.000	14	0.00	0.00	19	0.00	0.00	-	o	1.000									
1522C/1522	3	17	0.00	0.00	9	0.00	0.00	-	o	1.000	17	0.00	0.00	9	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's	Power		---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.22. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group: Bladed Reds								Bangia sp. (AE)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	18	0.28	0.28	15	11.33	6.54	-	-	0.119	18	0.00	0.00	15	0.00	0.00	-	o	1.000	18	0.00	0.00	15	0.00	0.00	-	o	1.000
453C/453	1	18	3.19	1.63	20	0.63	0.62	-	+	0.079	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000
601C/601	1	18	2.22	1.24	21	0.12	0.12	-	+	0.096	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000
598C/598	1	18	0.14	0.14	21	0.00	0.00	-	+	0.331	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000
1522C/1522	1	18	0.00	0.00	20	0.13	0.12	-	-	0.330	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000
Habitat Means			1.16	0.64		2.42	1.46		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.083 y	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.049	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	17	0.29	0.20	15	7.50	3.87	-	-	0.040	17	0.15	0.15	15	0.17	0.17	-	-	0.930	17	0.00	0.00	15	0.00	0.00	-	o	1.000
453C/453	2	14	18.21	5.66	20	1.25	0.56	-	+	0.010	14	1.07	1.07	20	0.00	0.00	-	+	0.336	14	0.00	0.00	20	0.00	0.00	-	o	1.000
601C/601	2	18	1.25	0.84	17	0.00	0.00	-	+	0.069	18	0.00	0.00	17	0.00	0.00	-	o	1.000	18	0.00	0.00	17	0.00	0.00	-	o	1.000
598C/598	2	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000
1522C/1522	2	18	0.97	0.73	14	3.04	2.15	-	-	0.286	18	0.00	0.00	14	0.18	0.18	-	-	0.336	18	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			4.16	1.48		2.36	1.34		+			0.26	0.26		0.08	0.08		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.040x	Power	---		Power-50%		---	P-value		0.605 y	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.061		Power-50%		0.804	P-value		0.101	Power	---		Power-50%		---	P-value		0.617	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	11	10.00	9.03	12	15.00	4.56	-	-	0.366	11	0.45	0.45	12	5.83	3.45	-	-	0.040	11	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	3	11	23.64	8.79	15	0.67	0.52	-	+	0.005	11	8.64	7.02	15	0.00	0.00	-	+	0.169	11	0.00	0.00	15	0.00	0.00	-	o	1.000
601C/601	3	15	9.50	4.91	11	0.68	0.35	-	+	0.074	15	0.17	0.17	11	0.23	0.23	-	-	0.827	15	0.00	0.00	11	0.00	0.00	-	o	1.000
598C/598	3	14	3.04	1.46	19	0.79	0.66	-	+	0.094	14	0.18	0.18	19	0.00	0.00	-	+	0.336	14	0.00	0.00	19	0.00	0.00	-	o	1.000
1522C/1522	3	17	0.15	0.15	9	27.50	8.96	-	-	0.006	17	0.00	0.00	9	1.67	1.38	-	-	0.204	17	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			9.26	4.88		8.94	3.04		+			1.90	1.58		1.54	1.02		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.005x	Power	0.060		Power-50%		0.045	P-value		0.143 y	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.006	Power	0.010		Power-50%		0.144	P-value		0.810	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Gigartinaceae Group (P) (a)								Palmaria spp. (A)								Phycodrys riggii (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	18	0.00	0.00	15	0.00	0.00	-	o	1.000	18	0.00	0.00	15	0.00	0.00	-	o	1.000	18	0.00	0.00	15	0.00	0.00	-	o	1.000
453C/453	1	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000
601C/601	1	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000
598C/598	1	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000
1522C/1522	1	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	17	0.15	0.15	15	0.17	0.17	-	-	0.930	17	0.00	0.00	15	0.00	0.00	-	o	1.000	17	0.00	0.00	15	0.00	0.00	-	o	1.000
453C/453	2	14	1.07	1.07	20	0.00	0.00	-	+	0.336	14	0.00	0.00	20	0.00	0.00	-	o	1.000	14	0.00	0.00	20	0.00	0.00	-	o	1.000
601C/601	2	18	0.00	0.00	17	0.00	0.00	-	o	1.000	18	0.00	0.00	17	0.00	0.00	-	o	1.000	18	0.00	0.00	17	0.00	0.00	-	o	1.000
598C/598	2	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000
1522C/1522	2	18	0.00	0.00	14	0.18	0.18	-	-	0.336	18	0.00	0.00	14	0.00	0.00	-	o	1.000	18	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.26	0.26		0.08	0.08		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.605 y	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.617	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	11	0.45	0.45	12	4.17	2.92	-	-	0.176	11	0.00	0.00	12	0.83	0.47	-	-	0.087	11	0.00	0.00	12	0.21	0.21	-	-	0.339
453C/453	3	11	1.59	1.36	15	0.00	0.00	-	+	0.208	11	7.05	7.05	15	0.00	0.00	-	+	0.341	11	0.00	0.00	15	0.00	0.00	-	o	1.000
601C/601	3	15	0.17	0.17	11	0.23	0.23	-	-	0.827	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	0.00	0.00	11	0.00	0.00	-	o	1.000
598C/598	3	14	0.18	0.18	19	0.00	0.00	-	+	0.336	14	0.00	0.00	19	0.00	0.00	-	o	1.000	14	0.00	0.00	19	0.00	0.00	-	o	1.000
1522C/1522	3	17	0.00	0.00	9	1.11	0.84	-	-	0.187	17	0.00	0.00	9	0.00	0.00	-	o	1.000	17	0.00	0.00	9	0.56	0.56	-	-	0.347
Habitat Means			0.50	0.46		1.10	0.78		-			1.42	1.42		0.16	0.10		-			0.00	0.00		0.16	0.16		-	
Fisher's		Power	0.020		Power-50%		0.035	P-value		0.288	Power	0.002		Power-50%		---	P-value		0.374 y	Power	---		Power-50%		---	P-value		0.341
Stouffer's		Power	0.010		Power-50%		0.120	P-value		0.817	Power	0.000		Power-50%		---	P-value		0.606	Power	---		Power-50%		---	P-value		0.371

(a) Chondrus, Iridaea, Mastocarpus and Rhodoglossum.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.22. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. Undisturbed. (Continued.)

		Porphyra sp. (A)								Rhodymenia pertusa (A)								Tokidadendron kurilensis (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	18	0.00	0.00	15	0.00	0.00	-	o	1.000	18	0.00	0.00	15	0.00	0.00	-	o	1.000	18	0.00	0.00	15	0.00	0.00	-	o	1.000
453C/453	1	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000
601C/601	1	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000
598C/598	1	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000
1522C/1522	1	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	17	0.00	0.00	15	0.00	0.00	-	o	1.000	17	0.00	0.00	15	0.00	0.00	-	o	1.000	17	0.00	0.00	15	0.00	0.00	-	o	1.000
453C/453	2	14	0.00	0.00	20	0.00	0.00	-	o	1.000	14	0.00	0.00	20	0.00	0.00	-	o	1.000	14	0.00	0.00	20	0.00	0.00	-	o	1.000
601C/601	2	18	0.00	0.00	17	0.00	0.00	-	o	1.000	18	0.00	0.00	17	0.00	0.00	-	o	1.000	18	0.00	0.00	17	0.00	0.00	-	o	1.000
598C/598	2	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000
1522C/1522	2	18	0.00	0.00	14	0.00	0.00	-	o	1.000	18	0.00	0.00	14	0.00	0.00	-	o	1.000	18	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.42	0.42	-	-	0.339
453C/453	3	11	0.00	0.00	15	0.00	0.00	-	o	1.000	11	0.00	0.00	15	0.00	0.00	-	o	1.000	11	0.00	0.00	15	0.00	0.00	-	o	1.000
601C/601	3	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	0.00	0.00	11	0.00	0.00	-	o	1.000
598C/598	3	14	0.00	0.00	19	0.00	0.00	-	o	1.000	14	0.00	0.00	19	0.00	0.00	-	o	1.000	14	0.00	0.00	19	0.00	0.00	-	o	1.000
1522C/1522	3	17	0.00	0.00	9	0.00	0.00	-	o	1.000	17	0.00	0.00	9	0.00	0.00	-	o	1.000	17	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.08	0.08		-	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.523
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.447

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Coarse Filamentous Reds								Articulate Coralline Algae (A)								Cryptosiphonia woodii (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	18	0.00	0.00	15	0.00	0.00	-	o	1.000	18	0.00	0.00	15	0.00	0.00	-	o	1.000	18	0.00	0.00	15	0.00	0.00	-	o	1.000
453C/453	1	18	0.56	0.32	20	0.63	0.62	-	-	0.628	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000
601C/601	1	18	0.00	0.00	21	0.12	0.12	-	-	0.329	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000
598C/598	1	18	0.14	0.14	21	0.00	0.00	-	-	0.331	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000
1522C/1522	1	18	0.00	0.00	20	0.13	0.12	-	-	0.330	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000
Habitat Means			0.14	0.08		0.16	0.16		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.003		Power-50%		0.026	P-value		0.336	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.010		Power-50%		0.025	P-value		0.528	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	17	0.15	0.15	15	1.50	0.84	-	-	0.162	17	0.00	0.00	15	0.00	0.00	-	o	1.000	17	0.00	0.00	15	0.00	0.00	-	o	1.000
453C/453	2	14	16.96	5.62	20	1.25	0.56	-	+	0.013	14	0.00	0.00	20	0.00	0.00	-	o	1.000	14	0.00	0.00	20	0.00	0.00	-	o	1.000
601C/601	2	18	1.11	0.84	17	0.00	0.00	-	+	0.120	18	0.00	0.00	17	0.00	0.00	-	o	1.000	18	0.00	0.00	17	0.00	0.00	-	o	1.000
598C/598	2	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000
1522C/1522	2	18	0.97	0.73	14	2.86	2.16	-	-	0.404	18	0.00	0.00	14	0.00	0.00	-	o	1.000	18	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			3.86	1.46		1.14	0.72		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.060	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.095	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	11	9.32	9.07	12	4.79	1.88	-	+	0.982	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	3	11	14.32	7.21	15	0.67	0.52	-	+	0.045	11	0.00	0.00	15	0.00	0.00	-	o	1.000	11	0.00	0.00	15	0.00	0.00	-	o	1.000
601C/601	3	15	9.00	4.60	11	0.45	0.30	-	+	0.049	15	0.17	0.17	11	0.00	0.00	-	+	0.334	15	0.00	0.00	11	0.00	0.00	-	o	1.000
598C/598	3	14	2.68	1.32	19	0.79	0.66	-	+	0.116	14	0.00	0.00	19	0.00	0.00	-	o	1.000	14	0.00	0.00	19	0.00	0.00	-	o	1.000
1522C/1522	3	17	0.15	0.15	9	23.89	8.65	-	-	0.007	17	0.00	0.00	9	0.56	0.56	-	-	0.347	17	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			7.10	4.48		6.14	2.42		+			0.04	0.04		0.12	0.12		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.015x	Power	---		Power-50%		---	P-value		0.617 y	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.015	Power	---		Power-50%		---	P-value		0.489	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.22. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. Undisturbed. (Continued.)

		Endocladia muricata (P)								Gloiopeltis furcata (A)								Neorhodomela/Rhodomela (P) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	18	0.00	0.00	15	0.00	0.00	-	o	1.000	18	0.00	0.00	15	0.00	0.00	-	o	1.000	18	0.00	0.00	15	0.00	0.00	-	o	1.000
453C/453	1	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.14	0.14	20	0.00	0.00	-	+	0.331	18	0.42	0.30	20	0.63	0.62	-	-	0.891
601C/601	1	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.12	0.12	-	-	0.329
598C/598	1	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.14	0.14	21	0.00	0.00	-	+	0.331	18	0.00	0.00	21	0.00	0.00	-	o	1.000
1522C/1522	1	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.13	0.12	-	-	0.330
Habitat Means			0.00	0.00		0.00	0.00		o			0.04	0.04		0.00	0.00		+			0.08	0.06		0.16	0.16		-	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.331	Power	0.004		Power-50%		0.000	P-value		0.313
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.102	Power	0.029		Power-50%		0.000	P-value		0.308
4825C/1424	2	17	0.00	0.00	15	0.00	0.00	-	o	1.000	17	0.00	0.00	15	0.00	0.00	-	o	1.000	17	0.15	0.15	15	1.50	0.84	-	-	0.162
453C/453	2	14	0.00	0.00	20	0.00	0.00	-	o	1.000	14	0.00	0.00	20	0.00	0.00	-	o	1.000	14	16.96	5.62	20	1.25	0.56	-	+	0.013
601C/601	2	18	0.00	0.00	17	0.00	0.00	-	o	1.000	18	0.00	0.00	17	0.00	0.00	-	o	1.000	18	1.11	0.84	17	0.00	0.00	-	+	0.120
598C/598	2	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000
1522C/1522	2	18	0.00	0.00	14	0.00	0.00	-	o	1.000	18	0.00	0.00	14	0.00	0.00	-	o	1.000	18	0.97	0.73	14	2.86	2.16	-	-	0.404
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			3.86	1.46		1.14	0.72		+	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.060
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.095
4825C/1424	3	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	9.32	9.07	12	4.79	1.88	-	-	0.982
453C/453	3	11	0.00	0.00	15	0.00	0.00	-	o	1.000	11	0.00	0.00	15	0.00	0.00	-	o	1.000	11	14.32	7.21	15	0.67	0.52	-	-	0.045
601C/601	3	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	8.83	4.47	11	0.45	0.30	-	-	0.048
598C/598	3	14	0.00	0.00	19	0.00	0.00	-	o	1.000	14	0.00	0.00	19	0.00	0.00	-	o	1.000	14	2.68	1.32	19	0.79	0.66	-	-	0.116
1522C/1522	3	17	0.00	0.00	9	0.00	0.00	-	o	1.000	17	0.00	0.00	9	0.00	0.00	-	o	1.000	17	0.15	0.15	9	23.33	8.70	-	-	0.008
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			7.06	4.46		6.02	2.42		-	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.014x
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.014

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Odonthalia floccosa (P)								Ptilota/Neoptilota (P) (b)								Morphological Group: Saccate Reds							
Site Pair	Mvd	N	C	E	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	18	0.00	0.00	15	0.00	0.00	-	o	1.000	18	0.00	0.00	15	0.00	0.00	-	o	1.000	18	0.00	0.00	15	0.00	0.00	-	o	1.000
453C/453	1	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000
601C/601	1	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000
598C/598	1	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000
1522C/1522	1	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	17	0.00	0.00	15	0.00	0.00	-	o	1.000	17	0.00	0.00	15	0.00	0.00	-	o	1.000	17	0.00	0.00	15	0.00	0.00	-	o	1.000
453C/453	2	14	0.00	0.00	20	0.00	0.00	-	o	1.000	14	0.00	0.00	20	0.00	0.00	-	o	1.000	14	0.00	0.00	20	0.00	0.00	-	o	1.000
601C/601	2	18	0.00	0.00	17	0.00	0.00	-	o	1.000	18	0.00	0.00	17	0.00	0.00	-	o	1.000	18	0.00	0.00	17	0.00	0.00	-	o	1.000
598C/598	2	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000
1522C/1522	2	18	0.00	0.00	14	0.00	0.00	-	o	1.000	18	0.00	0.00	14	0.00	0.00	-	o	1.000	18	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.23	0.23	12	1.88	1.16	-	-	0.210
453C/453	3	11	0.00	0.00	15	0.00	0.00	-	o	1.000	11	0.00	0.00	15	0.00	0.00	-	o	1.000	11	0.00	0.00	15	0.00	0.00	-	o	1.000
601C/601	3	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	0.00	0.00	11	0.00	0.00	-	o	1.000
598C/598	3	14	0.00	0.00	19	0.00	0.00	-	o	1.000	14	0.00	0.00	19	0.00	0.00	-	o	1.000	14	0.18	0.18	19	0.00	0.00	-	+	0.336
1522C/1522	3	17	0.00	0.00	9	0.00	0.00	-	o	1.000	17	0.00	0.00	9	0.00	0.00	-	o	1.000	17	0.00	0.00	9	0.28	0.28	-	-	0.347
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.08	0.08		0.44	0.30		-	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	0.002		Power-50%		---	P-value		0.346
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	0.002		Power-50%		---	P-value		0.647

(b) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.22. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. Undisturbed. (Continued.)

		Halosaccion glandiforme (A)								Halosaccion spp. (A)								Morphological Group: Fine Filamentous Reds							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	18	0.00	0.00	15	0.00	0.00	-	o	1.000	18	0.00	0.00	15	0.00	0.00	-	o	1.000	18	0.00	0.00	15	0.00	0.00	-	o	1.000
453C/453	1	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000
601C/601	1	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000
598C/598	1	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000
1522C/1522	1	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	17	0.00	0.00	15	0.00	0.00	-	o	1.000	17	0.00	0.00	15	0.00	0.00	-	o	1.000	17	0.00	0.00	15	0.00	0.00	-	o	1.000
453C/453	2	14	0.00	0.00	20	0.00	0.00	-	o	1.000	14	0.00	0.00	20	0.00	0.00	-	o	1.000	14	0.00	0.00	20	0.00	0.00	-	o	1.000
601C/601	2	18	0.00	0.00	17	0.00	0.00	-	o	1.000	18	0.00	0.00	17	0.00	0.00	-	o	1.000	18	0.00	0.00	17	0.00	0.00	-	o	1.000
598C/598	2	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000
1522C/1522	2	18	0.00	0.00	14	0.00	0.00	-	o	1.000	18	0.00	0.00	14	0.00	0.00	-	o	1.000	18	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	11	0.00	0.00	12	1.88	1.16	-	-	0.099	11	0.23	0.23	12	0.00	0.00	-	-	0.341	11	0.00	0.00	12	2.50	1.38	-	-	0.058
453C/453	3	11	0.00	0.00	15	0.00	0.00	-	o	1.000	11	0.00	0.00	15	0.00	0.00	-	o	1.000	11	0.00	0.00	15	0.00	0.00	-	o	1.000
601C/601	3	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	0.17	0.17	11	0.00	0.00	-	-	0.334
598C/598	3	14	0.00	0.00	19	0.00	0.00	-	o	1.000	14	0.18	0.18	19	0.00	0.00	-	·	0.336	14	0.00	0.00	19	0.00	0.00	-	o	1.000
1522C/1522	3	17	0.00	0.00	9	0.28	0.28	-	-	0.347	17	0.00	0.00	9	0.00	0.00	-	o	1.000	17	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.44	0.30		-			0.08	0.08		0.00	0.00		+			0.04	0.04		0.50	0.28		-	
Fisher's		Power	0.007		Power-50%		---	P-value		0.188	Power	---		Power-50%		---	P-value		0.337	Power	0.000		Power-50%		---	P-value		0.312
Stouffer's		Power	0.007		Power-50%		---	P-value		0.336	Power	---		Power-50%		---	P-value		0.190	Power	0.000		Power-50%		---	P-value		0.484

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Polysiphonia/Pterosiphonia (A) (a)								Morphological Group: Crustose Reds								Crustose Coralline Algae (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	18	0.00	0.00	15	0.00	0.00	-	o	1.000	18	0.28	0.28	15	11.33	6.54	-	-	0.119	18	0.00	0.00	15	0.00	0.00	-	o	1.000
453C/453	1	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	2.64	1.57	20	0.00	0.00	-	·	0.065	18	0.00	0.00	20	0.00	0.00	-	o	1.000
601C/601	1	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	2.22	1.24	21	0.00	0.00	-	+	0.059	18	0.00	0.00	21	0.00	0.00	-	o	1.000
598C/598	1	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000
1522C/1522	1	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			1.02	0.62		2.26	1.30		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.079 y	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.031		Power-50%		0.327	P-value		0.115	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	17	0.00	0.00	15	0.00	0.00	-	o	1.000	17	0.00	0.00	15	5.83	3.93	-	-	0.109	17	0.00	0.00	15	0.00	0.00	-	o	1.000
453C/453	2	14	0.00	0.00	20	0.00	0.00	-	o	1.000	14	0.18	0.18	20	0.00	0.00	-	+	0.336	14	0.18	0.18	20	0.00	0.00	-	-	0.336
601C/601	2	18	0.00	0.00	17	0.00	0.00	-	o	1.000	18	0.14	0.14	17	0.00	0.00	-	+	0.331	18	0.00	0.00	17	0.00	0.00	-	o	1.000
598C/598	2	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000
1522C/1522	2	18	0.00	0.00	14	0.00	0.00	-	o	1.000	18	0.00	0.00	14	0.00	0.00	-	o	1.000	18	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.06	0.06		1.16	0.78		+			0.04	0.04		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	0.000		Power-50%		---	P-value		0.436 y	Power	---		Power-50%		---	P-value		0.521
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		---	P-value		0.304	Power	---		Power-50%		---	P-value		0.305
4825C/1424	3	11	0.00	0.00	12	2.50	1.38	-	-	0.058	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	3	11	0.00	0.00	15	0.00	0.00	-	o	1.000	11	0.68	0.49	15	0.00	0.00	-	+	0.174	11	0.68	0.49	15	0.00	0.00	-	+	0.174
601C/601	3	15	0.17	0.17	11	0.00	0.00	-	+	0.334	15	0.17	0.17	11	0.00	0.00	-	+	0.334	15	0.17	0.17	11	0.00	0.00	-	+	0.334
598C/598	3	14	0.00	0.00	19	0.00	0.00	-	o	1.000	14	0.00	0.00	19	0.00	0.00	-	o	1.000	14	0.00	0.00	19	0.00	0.00	-	o	1.000
1522C/1522	3	17	0.00	0.00	9	0.00	0.00	-	o	1.000	17	0.00	0.00	9	1.67	1.67	-	-	0.347	17	0.00	0.00	9	1.67	1.67	-	-	0.347
Habitat Means			0.04	0.04		0.50	0.28		-			0.18	0.14		0.34	0.34		+			0.18	0.14		0.34	0.34		+	
Fisher's		Power	0.000		Power-50%		---	P-value		0.312	Power	0.004		Power-50%		0.003	P-value		0.312 y	Power	0.005		Power-50%		0.006	P-value		0.312 y
Stouffer's		Power	0.000		Power-50%		---	P-value		0.484	Power	0.002		Power-50%		0.003	P-value		0.227	Power	0.004		Power-50%		0.006	P-value		0.227

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.22. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. Undisturbed. (Continued.)

		Hildenbrandia sp. (P)								Petrocelis (P)																			
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	
4825C/1424	1	18	0.28	0.28	15	11.33	6.54	-	-	0.119	18	0.00	0.00	15	0.00	0.00	-	o	1.000										
453C/453	1	18	2.64	1.57	20	0.00	0.00	-	+	0.065	18	0.00	0.00	20	0.00	0.00	-	o	1.000										
601C/601	1	18	2.22	1.24	21	0.00	0.00	-	+	0.059	18	0.00	0.00	21	0.00	0.00	-	o	1.000										
598C/598	1	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000										
1522C/1522	1	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000										
Habitat Means			1.02	0.62		2.26	1.30		+			0.00	0.00		0.00	0.00		o											
Fisher's		Power	---		Power-50%		---	P-value		0.079 y	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value			
Stouffer's		Power	0.029		Power-50%		0.319	P-value		0.115	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			
4825C/1424	2	17	0.00	0.00	15	5.83	3.93	-	-	0.109	17	0.00	0.00	15	0.00	0.00	-	o	1.000										
453C/453	2	14	0.00	0.00	20	0.00	0.00	-	o	1.000	14	0.00	0.00	20	0.00	0.00	-	o	1.000										
601C/601	2	18	0.14	0.14	17	0.00	0.00	-	+	0.331	18	0.00	0.00	17	0.00	0.00	-	o	1.000										
598C/598	2	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000										
1522C/1522	2	18	0.00	0.00	14	0.00	0.00	-	o	1.000	18	0.00	0.00	14	0.00	0.00	-	o	1.000										
Habitat Means			0.02	0.02		1.16	0.78		-			0.00	0.00		0.00	0.00		o											
Fisher's		Power	0.000		Power-50%		---	P-value		0.411	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value			
Stouffer's		Power	0.000		Power-50%		---	P-value		0.501	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			
4825C/1424	3	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000										
453C/453	3	11	0.00	0.00	15	0.00	0.00	-	o	1.000	11	0.00	0.00	15	0.00	0.00	-	o	1.000										
601C/601	3	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	0.00	0.00	11	0.00	0.00	-	o	1.000										
598C/598	3	14	0.00	0.00	19	0.00	0.00	-	o	1.000	14	0.00	0.00	19	0.00	0.00	-	o	1.000										
1522C/1522	3	17	0.00	0.00	9	0.00	0.00	-	o	1.000	17	0.00	0.00	9	0.00	0.00	-	o	1.000										
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o											
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.23. Algal Percent Cover. Invertebrates. Prince William Sound. Sheltered Rocky. August 1993. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Balanomorpha								Lottiidae								Mytilus							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	18	1.67	0.57	15	27.83	9.07	-	-	0.013	18	0.00	0.00	15	0.00	0.00	-	o	1.000	18	0.14	0.14	15	0.00	0.00	-	+	0.331
453C/453	1	18	3.06	1.15	20	3.38	1.64	-	-	0.857	18	0.00	0.00	20	0.13	0.12	-	-	0.330	18	0.83	0.70	20	0.38	0.27	-	+	0.698
601C/601	1	18	5.00	2.14	21	1.43	0.74	-	+	0.014	18	0.28	0.19	21	0.00	0.00	-	+	0.163	18	0.42	0.23	21	1.43	0.61	-	+	0.283
598C/598	1	18	6.53	2.08	21	3.10	0.89	-	-	0.103	18	0.14	0.14	21	0.48	0.28	-	-	0.339	18	1.11	0.68	21	0.60	0.34	-	+	0.644
1522C/1522	1	18	12.64	4.59	20	4.50	1.20	-	+	0.229	18	0.14	0.14	20	0.13	0.12	-	-	0.941	18	1.11	0.50	20	0.50	0.34	-	+	0.239
Habitat Means			5.78	2.12		8.04	2.70		+			0.10	0.08		0.14	0.10		+			0.70	0.44		0.58	0.30		+	
Fisher's		Power	---		Power-50%		---	P-value		0.019xy	Power	0.002		Power-50%	0.032		P-value		0.567 y	Power	0.151		Power-50%	0.782		P-value		0.252
Stouffer's		Power	---		Power-50%		---	P-value		0.050	Power	0.003		Power-50%	0.067		P-value		0.821	Power	0.112		Power-50%	0.784		P-value		0.244
4825C/1424	2	17	5.88	4.53	15	10.33	2.59	-	-	0.092	17	0.15	0.15	15	0.17	0.17	-	-	0.930	17	0.00	0.00	15	0.00	0.00	-	o	1.000
453C/453	2	14	2.86	1.01	20	12.25	2.89	-	-	0.009	14	0.18	0.18	20	0.13	0.12	-	+	0.801	14	1.07	0.57	20	6.50	2.13	-	-	0.027
601C/601	2	18	9.58	4.78	17	3.97	1.31	-	+	0.447	18	0.00	0.00	17	0.00	0.00	-	o	1.000	18	3.33	1.41	17	4.26	1.00	-	-	0.239
598C/598	2	17	9.85	3.21	20	6.88	2.28	-	+	0.382	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	5.44	1.38	20	6.00	2.11	-	-	0.680
1522C/1522	2	18	14.44	5.50	14	4.64	2.43	-	+	0.094	18	0.14	0.14	14	0.00	0.00	-	+	0.331	18	7.08	2.86	14	0.54	0.54	-	+	0.018
Habitat Means			8.54	3.80		7.62	2.30		+			0.10	0.10		0.06	0.06		+			3.38	1.26		3.46	1.14		-	
Fisher's		Power	0.145		Power-50%		0.980	P-value		0.252x	Power	---		Power-50%	---		P-value		0.490	Power	---		Power-50%	---		P-value		0.087x
Stouffer's		Power	0.012		Power-50%		0.990	P-value		0.659	Power	---		Power-50%	---		P-value		0.373	Power	0.030		Power-50%	0.986		P-value		0.101
4825C/1424	3	11	0.23	0.23	12	0.42	0.42	-	-	0.858	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	3	11	2.05	1.61	15	4.17	2.98	-	-	0.601	11	0.00	0.00	15	0.00	0.00	-	o	1.000	11	0.00	0.00	15	7.50	3.87	-	-	0.026
601C/601	3	15	4.83	2.71	11	0.23	0.23	-	+	0.075	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	0.83	0.40	11	0.23	0.23	-	-	0.254
598C/598	3	14	3.75	1.96	19	1.58	1.10	-	+	0.317	14	0.00	0.00	19	0.00	0.00	-	o	1.000	14	1.79	1.21	19	1.97	0.91	-	-	0.671
1522C/1522	3	17	2.21	1.13	9	0.00	0.00	-	+	0.021	17	0.00	0.00	9	0.00	0.00	-	o	1.000	17	1.18	0.65	9	0.00	0.00	-	-	0.053
Habitat Means			2.62	1.52		1.28	0.94		+			0.00	0.00		0.00	0.00		o			0.76	0.46		1.94	1.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.020	Power	---		Power-50%	---		P-value		0.732	Power	0.105		Power-50%	0.544		P-value		0.247x
Stouffer's		Power	---		Power-50%		---	P-value		0.086	Power	---		Power-50%	---		P-value		0.500	Power	0.005		Power-50%	0.656		P-value		0.199

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Nucella lamellosa								Littorinidae								Mollusca							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	18	0.28	0.19	15	1.83	0.79	-	-	0.087	18	0.00	0.00	15	0.00	0.00	-	o	1.000	18	0.00	0.00	15	0.00	0.00	-	o	1.000
453C/453	1	18	0.00	0.00	20	0.13	0.12	-	-	0.330	18	0.00	0.00	20	0.75	0.52	-	-	0.104	18	0.28	0.28	20	0.00	0.00	-	+	0.331
601C/601	1	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.36	0.20	-	-	0.083	18	0.00	0.00	21	0.00	0.00	-	o	1.000
598C/598	1	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.42	0.30	21	0.00	0.00	-	-	0.170	18	0.00	0.00	21	0.00	0.00	-	o	1.000
1522C/1522	1	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.25	0.25	-	-	0.330	18	0.00	0.00	20	0.00	0.00	-	o	1.000
Habitat Means			0.06	0.04		0.38	0.18		-			0.08	0.06		0.30	0.20		-			0.06	0.06		0.00	0.00		+	
Fisher's		Power	0.180		Power-50%		0.000	P-value		0.172	Power	---		Power-50%	---		P-value		0.065	Power	---		Power-50%	---		P-value		0.519
Stouffer's		Power	0.147		Power-50%		0.000	P-value		0.225	Power	0.156		Power-50%	0.000		P-value		0.345	Power	---		Power-50%	---		P-value		0.303
4825C/1424	2	17	0.00	0.00	15	0.50	0.36	-	-	0.171	17	0.00	0.00	15	0.00	0.00	-	o	1.000	17	0.00	0.00	15	0.00	0.00	-	o	1.000
453C/453	2	14	0.00	0.00	20	0.00	0.00	-	o	1.000	14	0.00	0.00	20	0.00	0.00	-	o	1.000	14	0.00	0.00	20	0.00	0.00	-	o	1.000
601C/601	2	18	0.00	0.00	17	0.00	0.00	-	o	1.000	18	0.00	0.00	17	0.00	0.00	-	o	1.000	18	0.00	0.00	17	0.00	0.00	-	o	1.000
598C/598	2	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000
1522C/1522	2	18	0.00	0.00	14	0.00	0.00	-	o	1.000	18	0.00	0.00	14	0.00	0.00	-	o	1.000	18	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.10	0.08		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		---	P-value		0.401	Power	---		Power-50%	---		P-value		0.732	Power	---		Power-50%	---		P-value		0.732
Stouffer's		Power	0.000		Power-50%		---	P-value		0.425	Power	---		Power-50%	---		P-value		0.500	Power	---		Power-50%	---		P-value		0.500
4825C/1424	3	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	3	11	0.00	0.00	15	0.00	0.00	-	o	1.000	11	0.00	0.00	15	0.00	0.00	-	o	1.000	11	0.00	0.00	15	0.00	0.00	-	o	1.000
601C/601	3	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	0.17	0.17	11	0.00	0.00	-	+	0.334	15	0.00	0.00	11	0.00	0.00	-	o	1.000
598C/598	3	14	0.00	0.00	19	0.13	0.13	-	-	0.331	14	0.00	0.00	19	0.00	0.00	-	o	1.000	14	0.00	0.00	19	0.00	0.00	-	o	1.000
1522C/1522	3	17	0.00	0.00	9	0.00	0.00	-	o	1.000	17	0.00	0.00	9	0.00	0.00	-	o	1.000	17	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.02	0.02		-			0.04	0.04		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.518	Power	---		Power-50%	---		P-value		0.521	Power	---		Power-50%	---		P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.225	Power	---		Power-50%	---		P-value		0.412	Power	---		Power-50%	---		P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.24. Algal Percent Cover. Substrates. Prince William Sound. Sheltered Rocky. August 1993. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Rock								Oiled Rock								Sand							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	18	64.58	7.89	15	56.00	9.70	-	+	0.723	18	0.00	0.00	15	0.00	0.00	-	o	1.000	18	0.00	0.00	15	0.00	0.00	-	o	1.000
453C/453	1	18	53.75	7.26	20	71.50	7.14	-	-	0.086	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000
601C/601	1	18	81.53	5.44	21	83.45	5.84	-	-	0.631	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000
598C/598	1	18	91.39	2.60	21	94.05	1.47	-	-	0.356	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000
1522C/1522	1	18	53.33	6.90	20	54.75	8.81	-	-	0.876	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000
Habitat Means			68.92	6.02		71.98	6.58		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.043			Power-50%	1.000	P-value		0.147	Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	---			Power-50%	---	P-value		0.043	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500
4825C/1424	2	17	39.26	8.68	15	45.00	9.12	-	-	0.620	17	0.00	0.00	15	0.00	0.00	-	o	1.000	17	0.00	0.00	15	0.00	0.00	-	o	1.000
453C/453	2	14	28.93	6.88	20	64.38	4.62	-	-	0.000	14	0.00	0.00	20	0.00	0.00	-	o	1.000	14	0.00	0.00	20	0.00	0.00	-	o	1.000
601C/601	2	18	49.03	7.24	17	56.91	9.64	-	-	0.493	18	0.00	0.00	17	0.00	0.00	-	o	1.000	18	0.00	0.00	17	0.29	0.29	-	-	0.332
598C/598	2	17	69.12	7.04	20	52.12	8.08	-	-	0.115	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	4.26	4.26	20	0.00	0.00	-	+	0.332
1522C/1522	2	18	30.28	5.87	14	38.04	11.23	-	-	0.739	18	0.00	0.00	14	0.00	0.00	-	o	1.000	18	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			43.32	7.14		51.28	8.52		-			0.00	0.00		0.00	0.00		o			0.86	0.86		0.06	0.06		-	
Fisher's		Power	---			Power-50%	---	P-value		0.004	Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.618 y
Stouffer's		Power	0.045			Power-50%	0.981	P-value		0.148	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.701
4825C/1424	3	11	5.68	2.96	12	23.75	8.37	-	-	0.052	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	5.45	5.45	12	0.00	0.00	-	+	0.341
453C/453	3	11	16.36	7.32	15	62.17	9.49	-	-	0.001	11	0.00	0.00	15	0.00	0.00	-	o	1.000	11	0.00	0.00	15	0.00	0.00	-	o	1.000
601C/601	3	15	26.17	7.60	11	19.32	9.83	-	+	0.713	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	0.00	0.00	11	19.55	11.34	-	-	0.102
598C/598	3	14	26.79	8.24	19	21.71	6.76	-	+	0.649	14	0.00	0.00	19	0.00	0.00	-	o	1.000	14	10.18	6.95	19	12.11	6.74	-	-	0.760
1522C/1522	3	17	23.68	6.27	9	8.89	2.89	-	+	0.168	17	0.00	0.00	9	0.00	0.00	-	o	1.000	17	9.56	5.52	9	0.00	0.00	-	+	0.092
Habitat Means			19.76	6.48		27.18	7.48		+			0.00	0.00		0.00	0.00		o			5.06	3.60		6.34	3.60		+	
Fisher's		Power	0.085			Power-50%	0.896	P-value		0.502xy	Power	---			Power-50%	---	P-value		0.732	Power	0.033			Power-50%	0.152	P-value		0.275 y
Stouffer's		Power	0.007			Power-50%	0.929	P-value		0.897	Power	---			Power-50%	---	P-value		0.500	Power	0.009			Power-50%	0.238	P-value		0.553

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Shell Fragments								Water								Zostera/Phyllospadix							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	18	0.00	0.00	15	0.00	0.00	~	o	1.000	18	0.00	0.00	15	0.00	0.00	-	o	1.000	18	0.00	0.00	15	0.00	0.00	-	o	1.000
453C/453	1	18	0.00	0.00	20	0.00	0.00	~	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000
601C/601	1	18	0.00	0.00	21	0.00	0.00	~	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000
598C/598	1	18	0.00	0.00	21	0.00	0.00	~	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000
1522C/1522	1	18	0.00	0.00	20	0.00	0.00	~	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500
4825C/1424	2	17	0.00	0.00	15	0.00	0.00	~	o	1.000	17	0.00	0.00	15	0.00	0.00	-	o	1.000	17	0.00	0.00	15	0.00	0.00	-	o	1.000
453C/453	2	14	0.00	0.00	20	0.00	0.00	~	o	1.000	14	0.00	0.00	20	0.00	0.00	-	o	1.000	14	0.00	0.00	20	0.00	0.00	-	o	1.000
601C/601	2	18	0.00	0.00	17	0.00	0.00	~	o	1.000	18	0.00	0.00	17	0.00	0.00	-	o	1.000	18	0.00	0.00	17	0.00	0.00	-	o	1.000
598C/598	2	17	0.00	0.00	20	0.00	0.00	~	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000
1522C/1522	2	18	0.00	0.00	14	0.00	0.00	~	o	1.000	18	0.00	0.00	14	0.00	0.00	-	o	1.000	18	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500
4825C/1424	3	11	0.00	0.00	12	0.00	0.00	~	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
453C/453	3	11	0.00	0.00	15	0.00	0.00	~	o	1.000	11	0.00	0.00	15	0.00	0.00	-	o	1.000	11	0.00	0.00	15	0.00	0.00	-	o	1.000
601C/601	3	15	0.00	0.00	11	0.00	0.00	~	o	1.000	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	0.00	0.00	11	0.00	0.00	-	o	1.000
598C/598	3	14	0.00	0.00	19	0.00	0.00	~	o	1.000	14	0.00	0.00	19	0.00	0.00	-	o	1.000	14	0.00	0.00	19	0.00	0.00	-	o	1.000
1522C/1522	3	17	0.88	0.88	9	0.00	0.00	~	+	0.332	17	0.00	0.00	9	0.00	0.00	-	o	1.000	17	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			0.18	0.18		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.519	Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	---			Power-50%	---	P-value		0.420	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.24. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. August 1993. Undisturbed. (Continued.)

		Sand and Mud								Total Substrate																			
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	
4825C/1424	1	18	0.00	0.00	15	0.00	0.00	-	o	1.000	18	64.58	7.89	15	56.00	9.70	-	-	0.723										
453C/453	1	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	53.75	7.26	20	71.50	7.14	-	-	0.086										
601C/601	1	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	81.53	5.44	21	83.45	5.84	-	-	0.631										
598C/598	1	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	91.39	2.60	21	94.05	1.47	-	-	0.356										
1522C/1522	1	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	53.33	6.90	20	54.75	8.81	-	-	0.876										
Habitat Means			0.00	0.00		0.00	0.00		o			68.92	6.02		71.98	6.58		-										
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	0.045		Power-50%		1.000	P-value		0.147	Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.043	Power	---		Power-50%		---	P-value			
4825C/1424	2	17	0.00	0.00	15	0.00	0.00	-	o	1.000	17	39.26	8.68	15	45.00	9.12	-	-	0.620										
453C/453	2	14	0.00	0.00	20	0.00	0.00	-	o	1.000	14	28.93	6.88	20	64.38	4.62	-	-	0.000										
601C/601	2	18	0.00	0.00	17	0.29	0.29	-	-	0.332	18	49.03	7.24	17	57.21	9.68	-	-	0.480										
598C/598	2	17	4.26	4.26	20	0.00	0.00	-	+	0.332	17	73.38	6.45	20	52.12	8.08	-	+	0.050										
1522C/1522	2	18	0.00	0.00	14	0.00	0.00	-	o	1.000	18	30.28	5.87	14	38.04	11.23	-	-	0.739										
Habitat Means			0.86	0.86		0.06	0.06		-			44.18	7.04		51.34	8.54		-										
Fisher's		Power	---		Power-50%		---	P-value		0.618 y	Power	---		Power-50%		---	P-value		0.004x	Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		0.701	Power	0.037		Power-50%		0.994	P-value		0.225	Power	---		Power-50%		---	P-value			
4825C/1424	3	11	5.45	5.45	12	0.00	0.00	-	+	0.341	11	11.14	6.78	12	23.75	8.37	-	-	0.176										
453C/453	3	11	0.00	0.00	15	0.00	0.00	-	o	1.000	11	16.36	7.32	15	62.17	9.49	-	-	0.001										
601C/601	3	15	0.00	0.00	11	19.55	11.34	-	-	0.102	15	26.17	7.60	11	38.86	12.58	-	-	0.287										
598C/598	3	14	10.18	6.95	19	12.11	6.74	-	-	0.760	14	36.96	9.27	19	33.82	8.50	-	+	0.911										
1522C/1522	3	17	10.44	6.04	9	0.00	0.00	-	+	0.093	17	34.12	8.77	9	8.89	2.89	-	+	0.031										
Habitat Means			5.22	3.70		6.34	3.60		+			24.96	7.96		33.52	8.38		-										
Fisher's		Power	0.031		Power-50%		0.182	P-value		0.276 y	Power	---		Power-50%		---	P-value		0.006x	Power	---		Power-50%		---	P-value			
Stouffer's		Power	0.006		Power-50%		0.264	P-value		0.553	Power	---		Power-50%		---	P-value		0.053	Power	---		Power-50%		---	P-value			

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.25. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. August 1994. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Algal Diversity Index (a)								Algal Taxa Richness (b)								Total Algae							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.03	0.02	10	0.05	0.03	-	-	0.620	12	0.83	0.21	10	0.40	0.27	-	-	0.207	12	22.92	8.83	10	5.00	3.65	-	+	0.062
453C/453	1	12	0.02	0.02	12	0.03	0.03	-	-	0.720	12	0.92	0.15	12	0.75	0.25	-	-	0.572	12	33.33	8.73	12	23.33	10.32	-	+	0.363
601C/601	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.17	0.11	12	0.17	0.11	-	o	1.000	12	5.63	5.19	12	8.75	6.10	-	-	0.740
598C/598	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.00	0.00	11	0.07	0.05	-	-	0.137	12	0.50	0.15	11	1.27	0.38	-	-	0.083	12	17.71	7.08	11	29.09	10.02	-	-	0.297
Habitat Means			0.01	0.01		0.03	0.02		-			0.48	0.12		0.52	0.20		+			15.90	5.96		13.24	6.02		+	
Fisher's		Power	0.090			Power-50%	0.008	P-value		0.252	Power	0.209			Power-50%	0.996	P-value		0.450xy	Power	0.133			Power-50%	0.412	P-value		0.223
Stouffer's		Power	0.144			Power-50%	0.007	P-value		0.285	Power	0.054			Power-50%	0.996	P-value		0.455	Power	0.098			Power-50%	0.563	P-value		0.327
4825C/1424	2	11	0.06	0.03	10	0.11	0.04	-	+	0.373	11	1.27	0.20	10	1.60	0.45	-	-	0.500	11	53.86	11.44	10	34.25	10.06	-	+	0.195
453C/453	2	12	0.21	0.07	12	0.09	0.04	-	+	0.184	12	2.17	0.49	12	1.50	0.29	-	+	0.254	12	42.50	8.04	12	42.29	9.43	-	+	0.973
601C/601	2	12	0.08	0.04	12	0.04	0.03	-	+	0.494	12	1.17	0.27	12	1.00	0.25	-	+	0.653	12	24.17	8.07	12	44.79	11.60	-	-	0.199
598C/598	2	11	0.03	0.02	12	0.02	0.02	-	+	0.793	11	0.73	0.30	12	0.67	0.19	-	+	0.865	11	13.64	7.37	12	13.96	6.57	-	-	0.797
1522C/1522	2	12	0.12	0.04	10	0.19	0.06	-	-	0.382	12	1.42	0.26	10	2.20	0.42	-	-	0.114	12	35.42	9.06	10	61.50	10.90	-	-	0.109
Habitat Means			0.10	0.04		0.09	0.04		+			1.35	0.30		1.39	0.32		+			33.92	8.80		39.38	9.72		-	
Fisher's		Power	0.118			Power-50%	0.994	P-value		0.419	Power	0.071			Power-50%	0.999	P-value		0.557 y	Power	0.315			Power-50%	0.799	P-value		0.181
Stouffer's		Power	0.078			Power-50%	0.996	P-value		0.223	Power	0.029			Power-50%	1.000	P-value		0.337	Power	0.282			Power-50%	0.853	P-value		0.264
4825C/1424	3	10	0.21	0.06	8	0.51	0.08	-	-	0.009	10	2.30	0.37	8	5.75	0.73	-		0.000	10	96.25	1.36	8	85.31	4.66	-	+	0.068
453C/453	3	11	0.36	0.02	10	0.12	0.05	-	-	0.001	11	3.18	0.23	10	1.70	0.40	-	+	0.004	11	74.09	7.07	10	47.25	11.86	-	+	0.097
601C/601	3	11	0.31	0.04	10	0.36	0.03	-	-	0.341	11	2.82	0.23	10	3.00	0.15	-	-	0.519	11	69.55	8.36	10	78.50	8.61	-	-	0.367
598C/598	3	8	0.10	0.05	10	0.21	0.04	-	-	0.120	8	1.38	0.38	10	2.10	0.23	-	-	0.107	8	44.06	15.17	10	71.25	8.93	-	-	0.157
1522C/1522	3	11	0.12	0.04	7	0.32	0.10	-	-	0.036	11	1.91	0.28	7	3.43	0.72	-	-	0.037	11	62.05	8.67	7	87.86	6.01	-	-	0.065
Habitat Means			0.22	0.04		0.30	0.06		-			2.32	0.30		3.20	0.44		-			69.24	8.16		74.06	8.02		-	
Fisher's		Power	---			Power-50%	---	P-value		0.002x	Power	---			Power-50%	---	P-value		0.000x	Power	0.386			Power-50%	0.997	P-value		0.115x
Stouffer's		Power	0.640			Power-50%	0.998	P-value		0.353	Power	0.675			Power-50%	1.000	P-value		0.218	Power	0.085			Power-50%	0.999	P-value		0.289

(a) Modified Shannon Index.
(b) Taxa richness calculations are explained in the methods.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Invertebrates								Rock								Perennials (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.83	0.64	10	15.75	6.29	-	-	0.029	12	76.25	8.84	10	79.25	6.11	-	-	0.893	12	22.92	8.83	10	5.00	3.65	-	+	0.062
453C/453	1	12	2.29	1.25	12	0.63	0.33	-	+	0.334	12	64.38	8.60	12	76.04	10.31	-	-	0.299	12	33.33	8.73	12	22.08	10.30	-	+	0.322
601C/601	1	12	2.08	1.26	12	4.58	1.94	-	-	0.255	12	92.29	5.14	12	86.67	6.01	-	+	0.398	12	5.63	5.19	12	8.75	6.10	-	-	0.740
598C/598	1	12	2.92	1.30	12	7.08	3.04	-	-	0.360	12	97.08	1.30	12	92.92	3.04	-	+	0.360	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	1	12	18.75	7.43	11	12.27	3.68	-	+	0.766	12	63.54	7.91	11	58.64	11.59	-	-	0.697	12	17.71	7.08	11	26.82	8.93	-	-	0.372
Habitat Means			5.38	2.38		8.08	3.04		-			78.72	6.34		78.70	7.40		·			15.90	5.96		12.54	5.80		+	
Fisher's		Power	---			Power-50%	---	P-value		0.067	Power	0.074			Power-50%	1.000	P-value		0.417	Power	0.155			Power-50%	0.431	P-value		0.205
Stouffer's		Power	0.362			Power-50%	0.966	P-value		0.241	Power	0.066			Power-50%	1.000	P-value		0.338	Power	0.114			Power-50%	0.564	P-value		0.301
4825C/1424	2	11	0.68	0.49	10	10.00	5.49	-	-	0.126	11	45.45	11.44	10	55.75	9.18	-	-	0.448	11	51.14	10.88	10	33.75	9.81	-	+	0.264
453C/453	2	12	5.42	2.38	12	3.54	1.39	-	+	0.522	12	52.08	7.27	12	54.17	9.17	-	-	0.927	12	30.42	7.02	12	39.79	9.62	-	-	0.455
601C/601	2	12	4.37	2.07	12	10.21	3.11	-	-	0.095	12	71.46	7.20	12	43.13	9.04	-	+	0.018	12	19.58	7.27	12	43.12	11.35	-	-	0.131
598C/598	2	11	10.45	4.06	12	14.58	4.67	-	-	0.418	11	75.91	7.89	12	71.46	6.35	-	+	0.499	11	12.73	6.83	12	13.96	6.57	-	-	0.740
1522C/1522	2	12	19.17	5.97	10	7.75	3.90	-	+	0.066	12	45.21	6.51	10	30.75	8.15	-	+	0.196	12	32.92	9.28	10	53.50	10.23	-	-	0.187
Habitat Means			8.04	3.02		9.22	3.72		-			58.04	8.06		51.08	8.40		+			29.34	8.26		36.84	9.52		-	
Fisher's		Power	0.270			Power-50%	0.911	P-value		0.117x	Power	---			Power-50%	---	P-value		0.045	Power	0.405			Power-50%	0.908	P-value		0.117
Stouffer's		Power	0.122			Power-50%	0.930	P-value		0.307	Power	0.259			Power-50%	0.994	P-value		0.117	Power	0.314			Power-50%	0.937	P-value		0.131
4825C/1424	3	10	0.00	0.00	8	0.00	0.00	-	o	1.000	10	3.25	1.24	8	14.69	4.66	-	-	0.045	10	72.00	9.17	8	67.50	7.12	-	+	0.508
453C/453	3	11	2.27	1.09	10	3.00	2.03	-	-	0.878	11	23.64	6.79	10	49.50	12.20	-	-	0.104	11	65.91	8.22	10	32.25	9.88	-	+	0.019
601C/601	3	11	0.68	0.49	10	3.75	2.45	-	-	0.193	11	29.77	8.29	10	9.50	4.91	-	+	0.025	11	42.95	9.01	10	30.50	9.25	-	+	0.316
598C/598	3	8	6.56	3.66	10	2.75	2.25	-	+	0.288	8	45.31	13.15	10	25.75	7.99	-	+	0.286	8	14.06	6.27	10	46.50	7.87	-	-	0.010
1522C/1522	3	11	3.41	2.46	7	0.36	0.36	-	+	0.277	11	32.73	7.74	7	11.79	5.82	-	+	0.093	11	57.05	8.26	7	80.00	6.52	-	-	0.053
Habitat Means			2.60	1.56		2.00	1.44		-			26.94	7.44		22.26	7.12		+			50.42	8.20		51.36	8.14		-	
Fisher's		Power	0.010			Power-50%	0.744	P-value		0.598 y	Power	---			Power-50%	---	P-value		0.041x	Power	0.245			Power-50%	0.931	P-value		0.104xy
Stouffer's		Power	0.006			Power-50%	0.846	P-value		0.748	Power	0.129			Power-50%	0.978	P-value		0.290	Power	0.021			Power-50%	0.948	P-value		0.800

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.25. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. August 1994. Undisturbed. (Continued.)

		Annuals (A)								Ephemerals (AE)																
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000									
453C/453	1	12	0.00	0.00	12	1.25	1.25	-	-	0.339	12	0.00	0.00	12	1.25	1.25	-	-	0.339									
601C/601	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000									
598C/598	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000									
1522C/1522	1	12	0.00	0.00	11	2.27	1.41	-	-	0.096	12	0.00	0.00	11	0.45	0.45	-	-	0.341									
Habitat Means			0.00	0.00		0.72	0.54		-			0.00	0.00		0.36	0.36		-										
Fisher's		Power	0.015		Power-50%		---	P-value		0.183	Power	---		Power-50%		---	P-value		0.339	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.016		Power-50%		---	P-value		0.197	Power	---		Power-50%		---	P-value		0.240	Power	---		Power-50%		---	P-value		
4825C/1424	2	11	2.73	1.49	10	0.50	0.33	-	+	0.228	11	2.73	1.49	10	0.00	0.00	-	+	0.057									
453C/453	2	12	12.08	5.02	12	2.50	1.27	-	+	0.062	12	0.00	0.00	12	2.29	1.29	-	-	0.054									
601C/601	2	12	4.58	2.55	12	1.67	1.17	-	+	0.334	12	4.58	2.55	12	1.46	1.09	-	+	0.296									
598C/598	2	11	0.91	0.61	12	0.00	0.00	-	+	0.167	11	0.91	0.61	12	0.00	0.00	-	-	0.167									
1522C/1522	2	12	2.50	1.31	10	8.00	2.91	-	-	0.066	12	2.50	1.31	10	5.75	2.71	-	-	0.300									
Habitat Means			4.56	2.20		2.54	1.14		+			2.14	1.20		1.92	1.02		+										
Fisher's		Power	---		Power-50%		---	P-value		0.030x	Power	---		Power-50%		---	P-value		0.092x	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.019	Power	0.047		Power-50%		0.973	P-value		0.366	Power	---		Power-50%		---	P-value		
4825C/1424	3	10	24.25	8.86	8	17.81	3.29	-	+	0.991	10	24.25	8.86	8	1.56	1.05	-	+	0.019									
453C/453	3	11	8.18	3.79	10	15.00	10.05	-	-	0.748	11	1.14	0.52	10	13.75	10.19	-	-	0.317									
601C/601	3	11	26.59	5.92	10	48.00	8.50	-	-	0.060	11	26.59	5.92	10	47.50	8.70	-	-	0.098									
598C/598	3	8	30.00	15.56	10	24.75	7.09	-	+	0.842	8	30.00	15.56	10	24.75	7.09	-	+	0.842									
1522C/1522	3	11	5.00	1.91	7	7.86	3.80	-	-	0.599	11	5.00	1.91	7	2.50	1.44	-	+	0.458									
Habitat Means			18.82	7.22		22.70	6.56		-			17.40	6.56		18.04	5.70		+										
Fisher's		Power	0.281		Power-50%		0.668	P-value		0.179	Power	0.071		Power-50%		0.777	P-value		0.156xy	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.300		Power-50%		0.750	P-value		0.288	Power	0.020		Power-50%		0.854	P-value		0.611	Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.26. Algal Percent Cover. Chlorophyta. Prince William Sound. Sheltered Rocky. August 1994. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group: Bladed Greens								Bladed Greens (AE) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
453C/453	1	12	0.00	0.00	12	1.25	1.25	-	-	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.00	0.00	11	1.14	0.62	-	-	0.086	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.48	0.38		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.037		Power-50%		---	P-value		0.173	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.036		Power-50%		---	P-value		0.194	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	11	1.36	1.14	10	0.00	0.00	-	+	0.201	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
453C/453	2	12	0.42	0.28	12	2.29	1.29	-	-	0.193	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	2	12	2.92	1.53	12	1.46	1.09	-	+	0.398	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	2	11	0.68	0.49	12	0.00	0.00	-	+	0.174	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	2	12	1.88	0.82	10	3.50	1.50	-	-	0.405	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			1.46	0.84		1.46	0.78		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.130		Power-50%		0.959	P-value		0.204 y	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.077		Power-50%		0.964	P-value		0.286	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	10	13.25	4.12	8	0.94	0.66	-	+	0.024	10	0.00	0.00	8	0.63	0.63	-	-	0.351	10	0.00	0.00	8	0.63	0.63	-	-	0.351
453C/453	3	11	4.77	3.81	10	14.50	10.02	-	-	0.362	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
601C/601	3	11	16.14	4.01	10	19.50	4.86	-	-	0.605	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
598C/598	3	8	27.81	15.62	10	13.50	5.34	-	+	0.430	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000
1522C/1522	3	11	3.86	1.80	7	1.79	1.18	-	+	0.463	11	0.00	0.00	7	0.00	0.00	-	o	1.000	11	0.00	0.00	7	0.00	0.00	-	o	1.000
Habitat Means			13.18	5.86		10.04	4.42		+			0.00	0.00		0.12	0.12		-			0.00	0.00		0.12	0.12		-	
Fisher's		Power	0.162		Power-50%		0.821	P-value		0.100	Power	---		Power-50%		---	P-value		0.530	Power	---		Power-50%		---	P-value		0.530
Stouffer's		Power	0.091		Power-50%		0.888	P-value		0.317	Power	---		Power-50%		---	P-value		0.448	Power	---		Power-50%		---	P-value		0.448

(A) Kornmannia, Monostroma, Ulva and Ulvaria.
x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Fine Filamentous Greens								Acrosiphonia sp. (A)								Chaetomorpha/Rhizoclonium (A) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
453C/453	1	12	0.00	0.00	12	1.25	1.25	-	-	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.00	0.00	11	1.14	0.62	-	-	0.086	12	0.00	0.00	11	0.68	0.49	-	-	0.174	12	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.48	0.38		-			0.00	0.00		0.14	0.10		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.039		Power-50%		---	P-value		0.173	Power	0.000		Power-50%		---	P-value		0.404	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.039		Power-50%		---	P-value		0.194	Power	0.000		Power-50%		---	P-value		0.389	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	11	1.36	1.14	10	0.00	0.00	-	+	0.201	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
453C/453	2	12	0.42	0.28	12	2.29	1.29	-	-	0.193	12	0.42	0.28	12	0.00	0.00	-	+	0.166	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	2	12	2.92	1.53	12	1.46	1.09	-	+	0.398	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	2	11	0.68	0.49	12	0.00	0.00	-	+	0.174	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	2	12	1.88	0.82	10	3.50	1.50	-	-	0.405	12	0.00	0.00	10	1.50	1.25	-	-	0.202	12	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			1.46	0.84		1.46	0.78		+			0.08	0.06		0.30	0.26		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.123		Power-50%		0.944	P-value		0.204 y	Power	0.000		Power-50%		0.002	P-value		0.499 y	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.068		Power-50%		0.952	P-value		0.286	Power	0.000		Power-50%		0.000	P-value		0.319	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	10	13.00	4.10	8	0.00	0.00	-	+	0.007	10	0.00	0.00	8	0.00	0.00	-	o	1.000	10	0.00	0.00	8	0.00	0.00	-	o	1.000
453C/453	3	11	4.77	3.81	10	14.50	10.02	-	-	0.362	11	3.86	3.86	10	1.25	0.85	-	+	0.851	11	0.00	0.00	10	0.00	0.00	-	o	1.000
601C/601	3	11	16.14	4.01	10	19.50	4.86	-	-	0.605	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
598C/598	3	8	27.81	15.62	10	13.50	5.34	-	+	0.430	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000
1522C/1522	3	11	2.50	1.43	7	1.79	1.18	-	+	0.780	11	0.00	0.00	7	1.07	1.07	-	-	0.356	11	0.00	0.00	7	0.00	0.00	-	o	1.000
Habitat Means			12.84	5.78		9.86	4.28		+			0.78	0.78		0.48	0.40		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.065	Power	0.004		Power-50%		---	P-value		0.559 y	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.082		Power-50%		0.896	P-value		0.328	Power	0.005		Power-50%		---	P-value		0.463	Power	---		Power-50%		---	P-value		0.500

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.26. Algal Percent Cover. Chlorophyta. Prince William Sound. Sheltered Rocky. August 1994. Undisturbed. (Continued.)

Site Pair	Mvd	Cladophora sp. (AE) N	C	SE	N	O	SE	CV	D	P	Ulothrix sp. (AE) N	C	SE	N	O	SE	CV	D	P	Urospora sp. (AE) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
453C/453	1	12	0.00	0.00	12	1.25	1.25	-	-	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.00	0.00	11	0.45	0.45	-	-	0.341	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.36	0.36		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50%		---	P-value		0.339	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power ---			Power-50%		---	P-value		0.240	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	11	1.36	1.14	10	0.00	0.00	-	+	0.201	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
453C/453	2	12	0.00	0.00	12	2.29	1.29	-	-	0.054	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	2	12	2.92	1.53	12	1.46	1.09	-	+	0.398	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	2	11	0.68	0.49	12	0.00	0.00	-	+	0.174	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	2	12	1.88	0.82	10	2.00	1.17	-	-	0.945	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			1.38	0.78		1.16	0.72		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power 0.184			Power-50%		0.865	P-value		0.171x	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power 0.083			Power-50%		0.904	P-value		0.347	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	10	13.00	4.10	8	0.00	0.00	-	+	0.007	10	0.00	0.00	8	0.00	0.00	-	o	1.000	10	0.00	0.00	8	0.00	0.00	-	o	1.000
453C/453	3	11	0.91	0.51	10	13.25	10.17	-	-	0.330	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
601C/601	3	11	16.14	4.01	10	19.50	4.86	-	-	0.605	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
598C/598	3	8	27.81	15.62	10	13.50	5.34	-	-	0.430	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000
1522C/1522	3	11	2.50	1.43	7	0.71	0.71	-	-	0.341	11	0.00	0.00	7	0.00	0.00	-	o	1.000	11	0.00	0.00	7	0.00	0.00	-	o	1.000
Habitat Means			12.06	5.12		9.40	4.22		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50%		---	P-value		0.039	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power 0.155			Power-50%		0.920	P-value		0.291	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Morphological Group: Tubular and Saccate Greens N	C	SE	N	O	SE	CV	D	P	Blidingia/Enteromorpha (AE) (a) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	10	0.00	0.00		o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000									
453C/453	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000									
601C/601	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000									
598C/598	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000									
1522C/1522	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power ---			Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		
Stouffer's		Power ---			Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
4825C/1424	2	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000									
453C/453	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000									
601C/601	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000									
598C/598	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000									
1522C/1522	2	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power ---			Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		
Stouffer's		Power ---			Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
4825C/1424	3	10	0.25	0.25	8	0.31	0.31	-	-	0.876	10	0.25	0.25	8	0.31	0.31	-	-	0.876									
453C/453	3	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000									
601C/601	3	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000									
598C/598	3	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000									
1522C/1522	3	11	1.36	1.36	7	0.00	0.00	-	+	0.341	11	1.36	1.36	7	0.00	0.00	-	-	0.341									
Habitat Means			0.34	0.34		0.06	0.06		+			0.34	0.34		0.06	0.06		-										
Fisher's		Power ---			Power-50%		---	P-value		0.546	Power	---		Power-50%		---	P-value		0.546	Power	---		Power-50%		---	P-value		
Stouffer's		Power ---			Power-50%		---	P-value		0.430	Power	---		Power-50%		---	P-value		0.430	Power	---		Power-50%		---	P-value		

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.27. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. August 1994. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group: Bladed Browns								Total Fucus gardneri (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	21.87	8.48	10	1.00	0.67	-	+	0.016	12	21.87	8.48	10	1.00	0.67	-	+	0.016	12	21.87	8.48	10	1.00	0.67	-	+	0.016
453C/453	1	12	32.50	8.67	12	21.88	10.31	-	+	0.335	12	32.50	8.67	12	21.88	10.31	-	+	0.335	12	32.50	8.67	12	21.88	10.31	-	+	0.335
601C/601	1	12	5.63	5.19	12	8.75	6.10	-	-	0.740	12	5.63	5.19	12	8.75	6.10	-	-	0.740	12	5.63	5.19	12	8.75	6.10	-	-	0.740
598C/598	1	12	0.00	0.00	12	0.00	0.00	o	o	1.000	12	0.00	0.00	12	0.00	0.00	o	o	1.000	12	0.00	0.00	12	0.00	0.00	o	o	1.000
1522C/1522	1	12	17.71	7.08	11	20.23	7.33	-	-	0.670	12	17.71	7.08	11	19.09	7.03	-	-	0.785	12	17.71	7.08	11	19.09	7.03	-	-	0.785
Habitat Means			15.54	5.90		10.38	4.88		+			15.54	5.90		10.16	4.82		+			15.54	5.90		10.16	4.82		+	
Fisher's		Power	---		Power-50%		---	P-value		0.091	Power	---		Power-50%		---	P-value		0.086	Power	---		Power-50%		---	P-value		0.086
Stouffer's		Power	0.246		Power-50%		0.562	P-value		0.248	Power	0.254		Power-50%		0.550	P-value		0.238	Power	0.252		Power-50%		0.533	P-value		0.238
4825C/1424	2	11	51.36	11.54	10	27.75	9.46	-	+	0.133	11	50.00	11.18	10	27.75	9.46	-	+	0.148	11	50.00	11.18	10	27.75	9.46	-	+	0.148
453C/453	2	12	28.96	6.81	12	37.92	9.69	-	-	0.554	12	24.17	7.10	12	37.92	9.69	-	-	0.335	12	24.17	7.10	12	37.92	9.69	-	-	0.335
601C/601	2	12	20.83	7.76	12	43.33	11.31	-	-	0.135	12	19.17	7.36	12	43.12	11.35	-	-	0.113	12	19.17	7.36	12	43.12	11.35	-	-	0.113
598C/598	2	11	12.95	6.91	12	13.75	6.59	-	-	0.773	11	12.73	6.83	12	13.75	6.59	-	-	0.759	11	12.73	6.83	12	13.75	6.59	-	-	0.759
1522C/1522	2	12	32.50	9.01	10	52.75	10.43	-	-	0.196	12	31.87	9.02	10	48.25	10.42	-	-	0.293	12	31.87	9.02	10	48.25	10.42	-	-	0.293
Habitat Means			29.34	8.40		35.12	9.50		-			27.60	8.30		34.18	9.52		-			27.60	8.30		34.18	9.52		-	
Fisher's		Power	0.375		Power-50%		0.857	P-value		0.146	Power	0.420		Power-50%		0.838	P-value		0.123	Power	0.423		Power-50%		0.846	P-value		0.123
Stouffer's		Power	0.269		Power-50%		0.910	P-value		0.173	Power	0.331		Power-50%		0.887	P-value		0.128	Power	0.336		Power-50%		0.898	P-value		0.128
4825C/1424	3	10	78.00	7.18	8	54.06	6.85	-	+	0.026	10	67.00	11.30	8	50.94	7.79	-	+	0.240	10	67.00	11.30	8	50.94	7.79	-	+	0.240
453C/453	3	11	46.36	6.54	10	31.00	9.72	-	+	0.164	11	43.86	6.40	10	30.50	9.68	-	+	0.216	11	43.86	6.40	10	30.50	9.68	-	+	0.216
601C/601	3	11	51.59	9.18	10	58.00	9.43	-	-	0.600	11	41.14	8.50	10	30.00	8.88	-	+	0.341	11	41.14	8.50	10	30.00	8.88	-	+	0.341
598C/598	3	8	16.25	7.86	10	57.75	8.49	-	+	0.002	8	14.06	6.27	10	46.50	7.87	-	+	0.010	8	14.06	6.27	10	46.50	7.87	-	+	0.010
1522C/1522	3	11	57.05	8.72	7	61.79	8.50	-	-	0.705	11	55.91	8.43	7	60.00	9.27	-	-	0.724	11	55.91	8.43	7	60.00	9.27	-	-	0.724
Habitat Means			49.88	7.90		52.54	8.60		-			44.40	8.18		43.58	8.72		+			44.40	8.18		43.58	8.72		-	
Fisher's		Power	---		Power-50%		---	P-value		0.043x	Power	0.133		Power-50%		0.891	P-value		0.216x	Power	0.142		Power-50%		0.904	P-value		0.216x
Stouffer's		Power	---		Power-50%		---	P-value		0.056	Power	0.026		Power-50%		0.914	P-value		0.852	Power	0.031		Power-50%		0.930	P-value		0.852

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Adult Fucus gardneri (P) (> 2cm)								Juvenile Fucus gardneri (P) (<= 2cm)								Fucus Stipes (P) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	21.87	8.48	10	1.00	0.67	-	+	0.016	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
453C/453	1	12	32.50	8.67	12	21.67	10.34	-	+	0.322	12	0.00	0.00	12	0.21	0.21	-	-	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	1	12	5.63	5.19	12	8.75	6.10	-	-	0.740	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	1	12	17.50	7.12	11	19.09	7.03	-	-	0.723	12	0.21	0.21	11	0.00	0.00	-	+	0.339	12	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			15.50	5.90		10.12	4.82		+			0.04	0.04		0.04	0.04		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.087	Power	---		Power-50%		---	P-value		0.621 y	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.331		Power-50%		0.644	P-value		0.239	Power	---		Power-50%		---	P-value		0.379	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	11	50.00	11.18	10	27.25	9.46	-	+	0.141	11	0.00	0.00	10	0.50	0.50	-	-	0.343	11	0.00	0.00	10	0.00	0.00	-	o	1.000
453C/453	2	12	24.17	7.10	12	37.92	9.69	-	-	0.335	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	2	12	19.17	7.36	12	43.12	11.35	-	-	0.113	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	2	11	12.73	6.83	12	13.75	6.59	-	-	0.759	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	2	12	31.87	9.02	10	48.25	10.42	-	-	0.293	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			27.60	8.30		34.08	9.52		-			0.00	0.00		0.10	0.10		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.422		Power-50%		0.856	P-value		0.123	Power	---		Power-50%		---	P-value		0.526	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.334		Power-50%		0.898	P-value		0.129	Power	---		Power-50%		---	P-value		0.448	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	10	67.00	11.30	8	50.94	7.79	-	+	0.240	10	0.00	0.00	8	0.00	0.00	-	o	1.000	10	0.00	0.00	8	0.00	0.00	-	o	1.000
453C/453	3	11	43.86	6.40	10	30.50	9.68	-	+	0.216	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.25	0.25	-	-	0.343
601C/601	3	11	41.14	8.50	10	30.00	8.88	-	+	0.341	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
598C/598	3	8	14.06	6.27	10	46.50	7.87	-	+	0.010	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000
1522C/1522	3	11	55.91	8.43	7	60.00	9.27	-	-	0.724	11	0.00	0.00	7	0.00	0.00	-	o	1.000	11	0.00	0.00	7	0.00	0.00	-	o	1.000
Habitat Means			44.40	8.18		43.58	8.72		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.06	0.06		-	
Fisher's		Power	0.135		Power-50%		0.910	P-value		0.216x	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.526
Stouffer's		Power	0.029		Power-50%		0.937	P-value		0.852	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.308

(a) Dead Fucus plants or stipes without blades.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.27. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. August 1994. Undisturbed. (Continued.)

Site Pair	Mvd	Petalonia/Punctaria (AE) (b) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Coarse Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Dictyosiphon sp. (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
453C/453	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
453C/453	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	2	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	10	0.00	0.00	8	0.00	0.00	-	o	1.000	10	0.00	0.00	8	2.19	1.60	-	-	0.184	10	0.00	0.00	8	0.00	0.00	-	o	1.000
453C/453	3	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
601C/601	3	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
598C/598	3	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000
1522C/1522	3	11	0.00	0.00	7	0.00	0.00	-	o	1.000	11	0.00	0.00	7	0.71	0.71	-	-	0.356	11	0.00	0.00	7	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.58	0.46		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	0.004		Power-50%		---	P-value		0.260	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.004		Power-50%		---	P-value		0.353	Power	---		Power-50%		---	P-value		0.500

(b) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Fine Filamentous Browns (AE) (b) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
453C/453	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	1.36	1.14	10	0.00	0.00	-	+	0.201	11	1.36	1.14	10	0.00	0.00	-	+	0.201
453C/453	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	1.67	1.67	12	0.00	0.00	-	+	0.339	12	1.67	1.67	12	0.00	0.00	-	+	0.339
598C/598	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.23	0.23	12	0.00	0.00	-	-	0.341	11	0.23	0.23	12	0.00	0.00	-	+	0.341
1522C/1522	2	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.63	0.63	10	3.75	2.74	-	-	0.214	12	0.63	0.63	10	3.75	2.74	-	-	0.214
Habitat Means			0.00	0.00		0.00	0.00		o			0.78	0.72		0.76	0.54		+			0.78	0.72		0.76	0.54		+	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	0.011		Power-50%		0.025	P-value		0.207	Power	0.013		Power-50%		0.030	P-value		0.207
Stouffer's		Power	---		Power-50%		---	P-value		*0.500*	Power	*0.050*		Power-50%		0.127	P-value		0.189	Power	0.056		Power-50%		0.138	P-value		0.189
4825C/1424	3	10	0.00	0.00	8	2.19	1.60	-	-	0.184	10	11.00	6.63	8	0.63	0.62	-	+	0.126	10	11.00	6.63	8	0.63	0.62	-	+	0.126
453C/453	3	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.23	0.23	10	0.50	0.33	-	-	0.500	11	0.23	0.23	10	0.50	0.33	-	-	0.500
601C/601	3	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	10.45	4.25	10	28.00	7.57	-	-	0.040	11	10.45	4.25	10	28.00	7.57	-	-	0.040
598C/598	3	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	2.19	2.19	10	11.25	5.69	-	-	0.151	8	2.19	2.19	10	11.25	5.69	-	-	0.151
1522C/1522	3	11	0.00	0.00	7	0.00	0.00	-	o	1.000	11	1.14	0.91	7	1.07	0.74	-	-	0.821	11	1.14	0.91	7	1.07	0.74	-	+	0.821
Habitat Means			0.00	0.00		0.44	0.32		-			5.00	2.84		8.30	2.98		-			5.00	2.84		8.30	2.98		-	
Fisher's		Power	0.000		Power-50%		---	P-value		0.413	Power	---		Power-50%		---	P-value		0.076	Power	---		Power-50%		---	P-value		0.076
Stouffer's		Power	0.000		Power-50%		---	P-value		0.427	Power	---		Power-50%		---	P-value		0.046	Power	---		Power-50%		---	P-value		0.046

Table C-5.27. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. August 1994. Undisturbed. (Continued.)

Site Pair	Mvd	Morphological Group: Saccate Browns N	C	SE	N	O	SE	CV	D	P	Leathesia/Colpomenia (A) (a) N	C	SE	N	O	SE	CV	D	P	Soranthera ulvoidea (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
453C/453	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.00	0.00	11	1.14	0.91	-	-	0.193	12	0.00	0.00	11	1.14	0.91	-	-	0.193	12	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.22	0.18		-			0.00	0.00		0.22	0.18		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		---		P-value	0.421	Power	0.000		Power-50%		---		P-value	0.421	Power	---		Power-50%		---		P-value	0.732
Stouffer's		Power	0.000		Power-50%		---		P-value	0.393	Power	0.000		Power-50%		---		P-value	0.393	Power	---		Power-50%		---		P-value	0.500
4825C/1424	2	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
453C/453	2	12	4.79	1.86	12	0.00	0.00	-	+	0.020	12	4.79	1.86	12	0.00	0.00	-	+	0.020	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	2	12	0.00	0.00	12	0.21	0.21	-	-	0.339	12	0.00	0.00	12	0.21	0.21	-	-	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	2	12	0.00	0.00	10	0.75	0.75	-	-	0.343	12	0.00	0.00	10	0.75	0.75	-	-	0.343	12	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.96	0.38		0.20	0.20		-			0.96	0.38		0.20	0.20		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		0.058		P-value	0.452xy	Power	0.000		Power-50%		0.055		P-value	0.452xy	Power	---		Power-50%		---		P-value	0.732
Stouffer's		Power	0.000		Power-50%		0.005		P-value	0.793	Power	0.000		Power-50%		0.003		P-value	0.793	Power	---		Power-50%		---		P-value	0.500
4825C/1424	3	10	0.00	0.00	8	0.31	0.31	-	-	0.351	10	0.00	0.00	8	0.31	0.31	-	-	0.351	10	0.00	0.00	8	0.00	0.00	-	o	1.000
453C/453	3	11	2.27	1.45	10	0.00	0.00	-	+	0.104	11	2.27	1.45	10	0.00	0.00	-	+	0.104	11	0.00	0.00	10	0.00	0.00	-	o	1.000
601C/601	3	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
598C/598	3	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000
1522C/1522	3	11	0.00	0.00	7	0.00	0.00	-	o	1.000	11	0.00	0.00	7	0.00	0.00	-	o	1.000	11	0.00	0.00	7	0.00	0.00	-	o	1.000
Habitat Means			0.46	0.30		0.06	0.06		+			0.46	0.30		0.06	0.06		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		0.401		P-value	0.401	Power	0.000		Power-50%		0.001		P-value	0.401	Power	---		Power-50%		---		P-value	0.732
Stouffer's		Power	0.000		Power-50%		0.000		P-value	0.232	Power	0.000		Power-50%		0.000		P-value	0.232	Power	---		Power-50%		---		P-value	0.500

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Morphological Group: Crustose Browns N	C	SE	N	O	SE	CV	D	P	Ralfsia/Petroderma (P) (a) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000									
453C/453	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000									
601C/601	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000									
598C/598	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000									
1522C/1522	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---		P-value	0.732	Power	---		Power-50%		---		P-value	0.732	Power	---		Power-50%		---		P-value	
Stouffer's		Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	
4825C/1424	2	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000									
453C/453	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000									
601C/601	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000									
598C/598	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000									
1522C/1522	2	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---		P-value	0.732	Power	---		Power-50%		---		P-value	0.732	Power	---		Power-50%		---		P-value	
Stouffer's		Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	
4825C/1424	3	10	0.00	0.00	8	0.00	0.00	-	o	1.000	10	0.00	0.00	8	0.00	0.00	-	o	1.000									
453C/453	3	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000									
601C/601	3	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000									
598C/598	3	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000									
1522C/1522	3	11	0.00	0.00	7	0.00	0.00	-	o	1.000	11	0.00	0.00	7	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---		P-value	0.732	Power	---		Power-50%		---		P-value	0.732	Power	---		Power-50%		---		P-value	
Stouffer's		Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.28. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1994. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group: Bladed Reds								Bangia sp. (AE)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	1.04	0.84	10	4.00	3.06	-	-	0.453	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
453C/453	1	12	0.83	0.83	12	0.21	0.21	-	+	0.654	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.00	0.00	11	7.73	5.18	-	-	0.167	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			0.36	0.32		2.38	1.70		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.035			Power-50%	0.000	P-value		0.320	Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	0.087			Power-50%	0.000	P-value		0.439	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500
4825C/1424	2	11	1.14	1.14	10	6.50	2.36	-	-	0.023	11	0.00	0.00	10	1.25	0.56	-	-	0.040	11	0.00	0.00	10	0.00	0.00	-	o	1.000
453C/453	2	12	13.12	4.72	12	2.08	0.96	-	+	0.056	12	0.21	0.21	12	0.00	0.00	-	+	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	2	12	0.42	0.42	12	0.00	0.00	-	+	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	2	11	0.00	0.00	12	0.21	0.21	-	-	0.339	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	2	12	1.04	0.72	10	5.25	2.70	-	-	0.211	12	0.00	0.00	10	0.50	0.50	-	-	0.343	12	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			3.12	1.38		2.82	1.26		-			0.04	0.04		0.36	0.22		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.066xy	Power	0.098			Power-50%	---	P-value		0.152	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	0.040			Power-50%	0.426	P-value		0.467	Power	0.040			Power-50%	---	P-value		0.510	Power	---			Power-50%	---	P-value		0.500
4825C/1424	3	10	5.00	4.73	8	30.31	6.24	-	-	0.000	10	0.00	0.00	8	12.81	4.94	-	-	0.002	10	0.00	0.00	8	0.00	0.00	-	o	1.000
453C/453	3	11	22.95	5.02	10	1.75	1.06	-	+	0.000	11	3.64	1.86	10	0.00	0.00	-	+	0.052	11	0.00	0.00	10	0.00	0.00	-	o	1.000
601C/601	3	11	1.82	1.17	10	1.00	0.76	-	+	0.628	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
598C/598	3	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000
1522C/1522	3	11	1.14	0.62	7	24.29	9.01	-	-	0.015	11	0.00	0.00	7	3.57	2.03	-	-	0.098	11	0.00	0.00	7	0.00	0.00	-	o	1.000
Habitat Means			6.18	2.30		11.48	3.42		+			0.72	0.38		3.28	1.38		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.009xy	Power	---			Power-50%	---	P-value		0.010x	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	0.000			Power-50%	0.838	P-value		0.120	Power	0.053			Power-50%	0.000	P-value		0.598	Power	---			Power-50%	---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Gigartinaceae Group (P) (a)								Palmaria spp. (A)								Phycodrys riggii (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
453C/453	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500
4825C/1424	2	11	0.00	0.00	10	1.25	0.56	-	-	0.040	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
453C/453	2	12	0.21	0.21	12	0.00	0.00	-	+	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	2	12	0.00	0.00	10	0.50	0.50	-	-	0.343	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.04	0.04		0.36	0.22		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.099			Power-50%	---	P-value		0.152	Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	0.041			Power-50%	---	P-value		0.510	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500
4825C/1424	3	10	0.00	0.00	8	12.50	4.98	-	-	0.002	10	0.00	0.00	8	0.00	0.00	-	o	1.000	10	0.00	0.00	8	0.00	0.00	-	o	1.000
453C/453	3	11	3.64	1.86	10	0.00	0.00	-	+	0.052	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
601C/601	3	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
598C/598	3	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000
1522C/1522	3	11	0.00	0.00	7	3.57	2.03	-	-	0.098	11	0.00	0.00	7	0.00	0.00	-	o	1.000	11	0.00	0.00	7	0.00	0.00	-	o	1.000
Habitat Means			0.72	0.38		3.22	1.40		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.011x	Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	0.043			Power-50%	0.000	P-value		0.600	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500

(a) Chondrus, Iridaea, Mastocarpus and Rhodoglossum.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.28. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1994. Undisturbed. (Continued.)

		Porphyra sp. (A)								Rhodymenia pertusa (A)								Tokidadendron kurilensis (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
453C/453	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
453C/453	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	2	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	10	0.00	0.00	8	0.00	0.00	-	o	1.000	10	0.00	0.00	8	0.00	0.00	-	o	1.000	10	0.00	0.00	8	0.31	0.31	-	-	0.351
453C/453	3	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
601C/601	3	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
598C/598	3	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000
1522C/1522	3	11	0.00	0.00	7	0.00	0.00	-	o	1.000	11	0.00	0.00	7	0.00	0.00	-	o	1.000	11	0.00	0.00	7	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.06	0.06		-	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.530
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.448

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Coarse Filamentous Reds								Articulate Coralline Algae (A)								Cryptosiphonia woodii (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
453C/453	1	12	0.00	0.00	12	0.21	0.21	-	-	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.00	0.00	11	7.73	5.18	-	-	0.167	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		1.58	1.08		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.021		Power-50%		---	P-value		0.242	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.020		Power-50%		---	P-value		0.213	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	11	0.00	0.00	10	1.75	1.24	-	-	0.113	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.50	0.33	-	-	0.168
453C/453	2	12	12.92	4.73	12	1.88	0.98	-	+	0.045	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	6.88	4.05	12	0.00	0.00	-	.	0.049
601C/601	2	12	0.42	0.42	12	0.00	0.00	-	+	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	2	12	1.04	0.72	10	4.75	2.54	-	-	0.235	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			2.86	1.16		1.70	0.94		+			0.00	0.00		0.00	0.00		o			1.38	0.82		0.10	0.06		.	
Fisher's		Power	0.118		Power-50%		0.218	P-value		0.230	Power	---		Power-50%		---	P-value		0.732	Power	0.002		Power-50%		0.001	P-value		0.301
Stouffer's		Power	0.010		Power-50%		0.289	P-value		0.207	Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.000	P-value		0.197
4825C/1424	3	10	5.00	4.73	8	13.12	2.30	-	-	0.009	10	0.00	0.00	8	0.00	0.00	-	o	1.000	10	0.00	0.00	8	9.06	1.56	-	-	0.000
453C/453	3	12	19.32	5.67	10	1.75	1.06	-	+	0.002	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.91	0.91	10	0.00	0.00	-	+	0.341
601C/601	3	11	1.82	1.17	10	0.50	0.50	-	+	0.328	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
598C/598	3	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000
1522C/1522	3	11	1.14	0.62	7	19.64	6.91	-	-	0.011	11	0.00	0.00	7	3.21	3.21	-	-	0.356	11	0.00	0.00	7	0.00	0.00	-	o	1.000
Habitat Means			5.44	2.44		7.00	2.16		+			0.00	0.00		0.64	0.64		-			0.18	0.18		1.82	0.32		-	
Fisher's		Power	---		Power-50%		---	P-value		0.038xy	Power	---		Power-50%		---	P-value		0.532	Power	---		Power-50%		---	P-value		0.007
Stouffer's		Power	0.00'		Power-50%		0.605	P-value		0.158	Power	---		Power-50%		---	P-value		0.424	Power	0.052		Power-50%		---	P-value		0.486

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.28. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1994. Undisturbed. (Continued.)

Site Pair	Mvd	Endocladia muricata (P) N	C	SE	N	O	SE	CV	D	P	Gloiopeltis furcata (A) N	C	SE	N	O	SE	CV	D	P	Neorhodomela/Rhodomela (P) (a) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
453C/453	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.21	0.21	-	-	0.339
601C/601	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	7.73	5.18	-	-	0.167
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		1.58	1.08		-	
Fisher's		Power ---			Power-50%		---	P-value		0.732	Power ---			Power-50%		---	P-value		0.732	Power 0.024			Power-50%		---	P-value		0.242
Stouffer's		Power ---			Power-50%		---	P-value		0.500	Power ---			Power-50%		---	P-value		0.500	Power 0.023			Power-50%		---	P-value		0.213
4825C/1424	2	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	1.25	1.25	-	-	0.343
453C/453	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	6.04	3.54	12	1.88	0.98	-	-	0.447
601C/601	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.42	0.42	12	0.00	0.00	-	-	0.339
598C/598	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	2	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	1.04	0.72	10	4.75	2.54	-	-	0.235
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			1.48	0.92		1.60	0.96		-	
Fisher's		Power ---			Power-50%		---	P-value		0.732	Power ---			Power-50%		---	P-value		0.732	Power 0.015			Power-50%		0.126	P-value		0.434
Stouffer's		Power ---			Power-50%		---	P-value		0.500	Power ---			Power-50%		---	P-value		0.500	Power 0.011			Power-50%		0.259	P-value		0.597
4825C/1424	3	10	0.00	0.00	8	0.00	0.00	-	o	1.000	10	0.00	0.00	8	0.00	0.00	-	o	1.000	10	5.00	4.73	8	3.13	1.32	-	-	0.658
453C/453	3	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	14.77	4.95	10	1.75	1.06	-	-	0.003
601C/601	3	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	1.82	1.17	10	0.50	0.50	-	-	0.328
598C/598	3	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000
1522C/1522	3	11	0.00	0.00	7	0.00	0.00	-	o	1.000	11	0.00	0.00	7	0.00	0.00	-	o	1.000	11	1.14	0.62	7	16.43	5.80	-	-	0.001
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			4.54	2.30		4.36	1.74		-	
Fisher's		Power ---			Power-50%		---	P-value		0.732	Power ---			Power-50%		---	P-value		0.732	Power ---			Power-50%		---	P-value		0.029x
Stouffer's		Power ---			Power-50%		---	P-value		0.500	Power ---			Power-50%		---	P-value		0.500	Power 0.009			Power-50%		0.652	P-value		0.125

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Odonthalia floccosa (P) N	C	SE	N	O	SE	CV	D	P	Ptilota/Neoptilota (P) (b) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Saccate Reds N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
453C/453	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50%		---	P-value		0.732	Power ---			Power-50%		---	P-value		0.732	Power ---			Power-50%		---	P-value		0.732
Stouffer's		Power ---			Power-50%		---	P-value		0.500	Power ---			Power-50%		---	P-value		0.500	Power ---			Power-50%		---	P-value		0.500
4825C/1424	2	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
453C/453	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	2	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50%		---	P-value		0.732	Power ---			Power-50%		---	P-value		0.732	Power ---			Power-50%		---	P-value		0.732
Stouffer's		Power ---			Power-50%		---	P-value		0.500	Power ---			Power-50%		---	P-value		0.500	Power ---			Power-50%		---	P-value		0.500
4825C/1424	3	10	0.00	0.00	8	0.94	0.66	-	-	0.178	10	0.00	0.00	8	0.00	0.00	-	o	1.000	10	0.00	0.00	8	1.56	0.81	-	-	0.084
453C/453	3	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
601C/601	3	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.50	0.33	-	-	0.168
598C/598	3	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000
1522C/1522	3	11	0.00	0.00	7	0.00	0.00	-	o	1.000	11	0.00	0.00	7	0.00	0.00	-	o	1.000	11	0.00	0.00	7	1.07	0.74	-	-	0.180
Habitat Means			0.00	0.00		0.18	0.14		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.64	0.36		-	
Fisher's		Power 0.001			Power-50%		---	P-value		0.407	Power ---			Power-50%		---	P-value		0.732	Power ---			Power-50%		---	P-value		0.042
Stouffer's		Power 0.000			Power-50%		---	P-value		0.426	Power ---			Power-50%		---	P-value		0.500	Power 0.692			Power-50%		---	P-value		0.201

(b) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.28. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1994. Undisturbed. (Continued.)

		Halosaccion glandiforme (A)								Halosaccion spp. (A)								Morphological Group: Fine Filamentous Reds							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
453C/453	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
453C/453	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.21	0.21	-	-	0.339
601C/601	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	2	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.04	0.04		-	
Fisher's	Power		---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.523
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.306
4825C/1424	3	10	0.00	0.00	8	1.56	0.81	-	-	0.084	10	0.00	0.00	8	0.00	0.00	-	o	1.000	10	0.00	0.00	8	2.81	1.29	-	-	0.041
453C/453	3	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
601C/601	3	11	0.00	0.00	10	0.50	0.33	-	-	0.168	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
598C/598	3	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000
1522C/1522	3	11	0.00	0.00	7	1.07	0.74	-	-	0.180	11	0.00	0.00	7	0.00	0.00	-	o	1.000	11	0.00	0.00	7	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.64	0.36		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.56	0.26		-	
Fisher's	Power		---		Power-50%		---	P-value		0.042	Power	---		Power-50%		---	P-value		0.732	Power	0.018		Power-50%		---	P-value		0.207
Stouffer's	Power		0.701		Power-50%		---	P-value		0.201	Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		---	P-value		0.388

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Polysiphonia/Pterosiphonia (A) (a)								Morphological Group: Crustose Reds								Crustose Coralline Algae (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	1.04	0.84	10	4.00	3.06	-	-	0.453	12	0.00	0.00	10	0.00	0.00	-	o	1.000
453C/453	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.83	0.83	12	0.00	0.00	-	+	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.36	0.32		0.80	0.62		+			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.732	Power	0.000		Power-50%		0.000	P-value		0.607 y	Power	---		Power-50%		---	P-value		0.732
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.000	P-value		0.343	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	1.14	1.14	10	3.50	2.21	-	-	0.310	11	0.00	0.00	10	0.00	0.00	-	o	1.000
453C/453	2	12	0.00	0.00	12	0.21	0.21	-	-	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.21	0.21	-	-	0.339	11	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	2	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.04	0.04		-			0.22	0.22		0.74	0.48		-			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.523	Power	0.001		Power-50%		---	P-value		0.324	Power	---		Power-50%		---	P-value		0.732
Stouffer's	Power		---		Power-50%		---	P-value		0.306	Power	0.002		Power-50%		---	P-value		0.189	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	10	0.00	0.00	8	2.81	1.29	-	-	0.041	10	0.00	0.00	8	0.00	0.00	-	o	1.000	10	0.00	0.00	8	0.00	0.00	-	o	1.000
453C/453	3	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
601C/601	3	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
598C/598	3	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000
1522C/1522	3	11	0.00	0.00	7	0.00	0.00	-	o	1.000	11	0.00	0.00	7	0.00	0.00	-	o	1.000	11	0.00	0.00	7	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.56	0.26		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		0.015		Power-50%		---	P-value		0.207	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's	Power		0.001		Power-50%		---	P-value		0.388	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.28. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1994. Undisturbed. (Continued.)

		Hildenbrandia sp. (P)								Petrocelis (P)																
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	10	4.00	3.06	-	-	0.187	12	1.04	0.84	10	0.00	0.00	-	+	0.192									
453C/453	1	12	0.83	0.83	12	0.00	0.00	-	+	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000									
601C/601	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000									
598C/598	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000									
1522C/1522	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000									
Habitat Means			0.16	0.16		0.80	0.62		-			0.20	0.16		0.00	0.00		-										
Fisher's		Power	0.000		Power-50%		---	P-value		0.507	Power	0.000		Power-50%		0.000	P-value		0.420	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.000		Power-50%		---	P-value		0.627	Power	0.000		Power-50%		0.000	P-value		0.428	Power	---		Power-50%		---	P-value		
4825C/1424	2	11	0.00	0.00	10	3.50	2.21	-	-	0.108	11	1.14	1.14	10	0.00	0.00	-	+	0.341									
453C/453	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000									
601C/601	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000									
598C/598	2	11	0.00	0.00	12	0.21	0.21	-	-	0.339	11	0.00	0.00	12	0.00	0.00	-	o	1.000									
1522C/1522	2	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.74	0.48		-			0.22	0.22		0.00	0.00		+										
Fisher's		Power	0.004		Power-50%		---	P-value		0.195	Power	---		Power-50%		---	P-value		0.524	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.003		Power-50%		---	P-value		0.167	Power	---		Power-50%		---	P-value		0.447	Power	---		Power-50%		---	P-value		
4825C/1424	3	10	0.00	0.00	8	0.00	0.00	-	o	1.000	10	0.00	0.00	8	0.00	0.00	-	o	1.000									
453C/453	3	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000									
601C/601	3	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000									
598C/598	3	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000									
1522C/1522	3	11	0.00	0.00	7	0.00	0.00	-	o	1.000	11	0.00	0.00	7	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.29. Algal Percent Cover. Invertebrates. Prince William Sound. Sheltered Rocky. August 1994. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Balanomorpha								Lottiidae								Mytilus							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.42	0.28	10	15.25	6.03	-	-	0.023	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.42	0.42	10	0.00	0.00	-	-	0.339
453C/453	1	12	2.08	1.26	12	0.63	0.33	-	+	0.497	12	0.21	0.21	12	0.00	0.00	-	+	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	1	12	2.08	1.26	12	2.50	1.38	-	-	0.773	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	2.08	1.14	-	-	0.055
598C/598	1	12	2.92	1.30	12	6.25	3.02	-	-	0.476	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.83	0.83	-	-	0.339
1522C/1522	1	12	15.63	6.34	11	11.82	3.63	-	+	0.926	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	3.13	1.82	11	0.45	0.30	-	+	0.272
Habitat Means			4.62	2.10		7.30	2.86		-			0.04	0.04		0.00	0.00		-			0.70	0.44		0.68	0.44		-	
Fisher's		Power	0.518			Power-50%	0.926	P-value		0.115	Power	---			Power-50%	---	P-value		0.523	Power	0.025			Power-50%	0.006	P-value		0.236 y
Stouffer's		Power	0.286			Power-50%	0.953	P-value		0.289	Power	---			Power-50%	---	P-value		0.306	Power	0.010			Power-50%	0.007	P-value		0.205
4825C/1424	2	11	0.68	0.49	10	10.00	5.49	-	-	0.126	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
453C/453	2	12	3.75	1.00	12	2.08	1.06	-	-	0.193	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	1.25	1.25	12	1.46	0.84	-	-	0.470
601C/601	2	12	3.13	1.51	12	8.54	2.86	-	-	0.074	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	1.25	1.25	12	1.67	0.83	-	-	0.405
598C/598	2	11	8.18	3.57	12	12.50	4.47	-	-	0.339	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	2.27	0.92	12	2.08	1.19	-	-	0.607
1522C/1522	2	12	13.75	4.66	10	5.50	3.59	-	+	0.076	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	5.42	2.30	10	2.25	2.25	-	-	0.208
Habitat Means			5.92	2.26		7.72	3.52		-			0.00	0.00		0.00	0.00		o			2.06	1.16		1.52	1.02		-	
Fisher's		Power	0.268			Power-50%	0.943	P-value		0.100x	Power	---			Power-50%	---	P-value		0.732	Power	0.076			Power-50%	0.591	P-value		0.506
Stouffer's		Power	0.070			Power-50%	0.968	P-value		0.378	Power	---			Power-50%	---	P-value		0.500	Power	0.056			Power-50%	0.625	P-value		0.467
4825C/1424	3	10	0.00	0.00	8	0.00	0.00	-	o	1.000	10	0.00	0.00	8	0.00	0.00	-	o	1.000	10	0.00	0.00	8	0.00	0.00	-	o	1.000
453C/453	3	11	2.27	1.09	10	1.25	1.25	-	+	0.333	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	1.75	1.75	-	-	0.343
601C/601	3	11	0.68	0.49	10	3.75	2.45	-	-	0.193	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
598C/598	3	8	3.44	1.63	10	2.75	2.25	-	+	0.465	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	3.13	2.10	10	0.00	0.00	-	+	0.173
1522C/1522	3	11	3.41	2.46	7	0.36	0.36	-	+	0.277	11	0.00	0.00	7	0.00	0.00	-	o	1.000	11	0.00	0.00	7	0.00	0.00	-	o	1.000
Habitat Means			1.96	1.14		1.66	1.30		+			0.00	0.00		0.00	0.00		o			0.62	0.42		0.36	0.36		+	
Fisher's		Power	0.134			Power-50%	0.812	P-value		0.282	Power	---			Power-50%	---	P-value		0.732	Power	0.001			Power-50%	0.005	P-value		0.492
Stouffer's		Power	0.092			Power-50%	0.900	P-value		0.157	Power	---			Power-50%	---	P-value		0.500	Power	0.000			Power-50%	0.001	P-value		0.289

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Nucella lamellosa								Littorinidae								Mollusca							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
453C/453	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.10	0.06		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.001			Power-50%	---	P-value		0.398	Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	0.000			Power-50%	---	P-value		0.424	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500
4825C/1424	2	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
453C/453	2	12	0.42	0.42	12	0.00	0.00	-	+	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	2	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.08	0.08		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.523	Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	---			Power-50%	---	P-value		0.306	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500
4825C/1424	3	10	0.00	0.00	8	0.00	0.00	-	o	1.000	10	0.00	0.00	8	0.00	0.00	-	o	1.000	10	0.00	0.00	8	0.00	0.00	-	o	1.000
453C/453	3	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
601C/601	3	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
598C/598	3	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000
1522C/1522	3	11	0.00	0.00	7	0.00	0.00	-	o	1.000	11	0.00	0.00	7	0.00	0.00	-	o	1.000	11	0.00	0.00	7	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.30. Algal Percent Cover. Substrates. Prince William Sound. Sheltered Rocky. August 1994. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Rock								Oiled Rock								Sand							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	76.25	8.84	10	79.25	6.11	-	-	0.893	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
453C/453	1	12	64.38	8.60	12	76.04	10.31	-	-	0.299	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	1	12	92.29	5.14	12	86.67	6.01	-	+	0.398	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	1	12	97.08	1.30	12	92.92	3.04	-	+	0.360	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	1	12	63.54	7.91	11	58.64	11.59	-	+	0.697	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			78.72	6.34		78.70	7.40		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.079			Power-50%	1.000	P-value		0.417	Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	0.060			Power-50%	1.000	P-value		0.338	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500
4825C/1424	2	11	45.45	11.44	10	55.75	9.18	-	-	0.448	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
453C/453	2	12	52.08	7.27	12	54.17	9.17	-	-	0.927	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	2	12	71.46	7.20	12	43.13	9.04	-	+	0.018	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	1.87	1.48	-	-	0.188
598C/598	2	11	75.91	7.89	12	71.46	6.35	-	+	0.499	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	2	12	45.21	6.51	10	30.75	8.15	-	-	0.196	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.21	0.21	10	0.00	0.00	-	+	0.339
Habitat Means			58.04	8.06		51.08	8.40		-			0.00	0.00		0.00	0.00		o			0.04	0.04		0.38	0.30		-	
Fisher's		Power	---			Power-50%	---	P-value		0.045	Power	---			Power-50%	---	P-value		0.732	Power	0.000			Power-50%	---	P-value		0.508
Stouffer's		Power	0.250			Power-50%	0.998	P-value		0.117	Power	---			Power-50%	---	P-value		0.500	Power	0.000			Power-50%	---	P-value		0.458
4825C/1424	3	10	3.25	1.24	8	14.69	4.66	-	-	0.045	10	0.00	0.00	8	0.00	0.00	-	o	1.000	10	0.50	0.33	8	0.00	0.00	-	+	0.168
453C/453	3	11	23.64	6.79	10	49.50	12.20	-	-	0.104	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
601C/601	3	11	29.77	8.29	10	9.50	4.91	-	-	0.025	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	8.00	5.32	-	-	0.087
598C/598	3	8	45.31	13.15	10	25.75	7.99	-	-	0.286	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	4.06	4.06	10	0.25	0.25	-	+	0.462
1522C/1522	3	11	32.73	7.74	7	11.79	5.82	-	-	0.093	11	0.00	0.00	7	0.00	0.00	-	o	1.000	11	1.82	1.39	7	0.00	0.00	-	+	0.184
Habitat Means			26.94	7.44		22.26	7.12		-			0.00	0.00		0.00	0.00		o			1.28	1.16		1.66	1.12		+	
Fisher's		Power	---			Power-50%	---	P-value		0.041x	Power	---			Power-50%	---	P-value		0.732	Power	0.027			Power-50%	0.067	P-value		0.167xy
Stouffer's		Power	0.130			Power-50%	0.980	P-value		0.290	Power	---			Power-50%	---	P-value		0.500	Power	0.005			Power-50%	0.172	P-value		0.260

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Shell Fragments								Water								Zostera/Phyllospadix							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	2	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
453C/453	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	2	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	2	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	2	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	2	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.732	ower	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	---			Power-50%	---	P-value		0.500	ower	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500
4825C/1424	2	11	0.00	0.00	10	0.00	0.00	-	o	1.000	1	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
453C/453	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	2	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
601C/601	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	2	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
598C/598	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	1	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
1522C/1522	2	12	0.00	0.00	10	0.00	0.00	-	o	1.000	2	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.732	ower	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	---			Power-50%	---	P-value		0.500	ower	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500
4825C/1424	3	10	0.00	0.00	8	0.00	0.00	-	o	1.000	0	0.00	0.00	8	0.00	0.00	-	o	1.000	10	0.00	0.00	8	0.00	0.00	-	o	1.000
453C/453	3	11	0.00	0.00	10	0.00	0.00	-	o	1.000	1	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
601C/601	3	11	0.00	0.00	10	0.00	0.00	-	o	1.000	1	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
598C/598	3	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000
1522C/1522	3	11	0.00	0.00	7	0.00	0.00	-	o	1.000	1	0.00	0.00	7	0.00	0.00	-	o	1.000	11	0.00	0.00	7	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.732	ower	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	---			Power-50%	---	P-value		0.500	ower	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.30. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. August 1994. Undisturbed. (Continued.)

		Sand and Mud								Total Substrate																
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	76.25	8.84	10	79.25	6.11	-	-	0.893									
453C/453	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	64.38	8.60	12	76.04	10.31	-	-	0.299									
601C/601	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	92.29	5.14	12	86.67	6.01	-	+	0.398									
598C/598	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	97.08	1.30	12	92.92	3.04	-	+	0.360									
1522C/1522	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	63.54	7.91	11	58.64	11.59	-	+	0.697									
Habitat Means			0.00	0.00		0.00	0.00		o			78.72	6.34		78.70	7.40		+										
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	0.070		Power-50%		1.000	P-value		0.417	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.062		Power-50%		1.000	P-value		0.338	Power	---		Power-50%		---	P-value		
4825C/1424	2	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	45.45	11.44	10	55.75	9.18	-	-	0.448									
453C/453	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	52.08	7.27	12	54.17	9.17	-	-	0.927									
601C/601	2	12	0.00	0.00	12	1.87	1.48	-	-	0.188	12	71.46	7.20	12	45.00	9.37	-	+	0.027									
598C/598	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	75.91	7.89	12	71.46	6.35	-	+	0.499									
1522C/1522	2	12	0.21	0.21	10	0.00	0.00	-	·	0.339	12	45.42	6.44	10	30.75	8.15	-	+	0.187									
Habitat Means			0.04	0.04		0.38	0.30		-			58.08	8.04		51.46	8.48		+										
Fisher's		Power	0.000		Power-50%		---	P-value		0.508	Power	---		Power-50%		---	P-value		0.057	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.000		Power-50%		---	P-value		0.458	Power	0.244		Power-50%		0.994	P-value		0.124	Power	---		Power-50%		---	P-value		
4825C/1424	3	10	0.50	0.33	8	0.00	0.00	-	-	0.168	10	3.75	1.36	8	14.69	4.66	-	-	0.068									
453C/453	3	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	23.64	6.79	10	49.50	12.20	-	-	0.104									
601C/601	3	11	0.00	0.00	10	8.25	5.28	-	-	0.060	11	29.77	8.29	10	17.75	6.56	-	+	0.212									
598C/598	3	8	4.06	4.06	10	0.25	0.25	-	·	0.462	8	49.38	12.88	10	26.00	7.91	-	+	0.224									
1522C/1522	3	11	1.82	1.39	7	0.00	0.00	-	+	0.184	11	34.55	8.26	7	11.79	5.82	-	·	0.082									
Habitat Means			1.28	1.16		1.72	1.12		+			28.24	7.54		23.96	7.44		+										
Fisher's		Power	0.030		Power-50%		0.058	P-value		0.169xy	Power	0.369		Power-50%		0.973	P-value		0.117x	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.002		Power-50%		0.168	P-value		0.273	Power	0.082		Power-50%		0.984	P-value		0.317	Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.31. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Coarse Textured. May 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Algal Diversity Index (a)								Algal Taxa Richness (b)								Total Algae							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	12	0.02	0.02	8	0.03	0.03	-	-	0.603	12	0.42	0.19	8	0.38	0.26	-	+	0.898	12	8.65	5.24	8	1.56	1.05	-	+	0.361
1598C/1598	1	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.60	0.16	10	0.10	0.10	-	+	0.018	10	5.51	3.02	10	0.38	0.38	-	+	0.042
846C/846	1	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.40	0.16	12	0.17	0.11	-	-	0.241	10	5.13	2.91	12	1.36	1.24	-	+	0.189
1650C/1650	1	12	0.00	0.00	8	0.04	0.04	-	-	0.351	12	0.08	0.08	8	0.25	0.25	-	-	0.544	12	0.32	0.32	8	1.25	1.25	-	-	0.540
Habitat Means			0.00	0.00		0.02	0.02		-			0.38	0.15		0.22	0.18		+			4.90	2.85		1.18	1.00		+	
Fisher's	Power		---		Power-50%		---	P-value		0.373	Power	---		Power-50%		---	P-value		0.044	Power	---		Power-50%		---	P-value		0.036
Stouffer's	Power		---		Power-50%		---	P-value		0.409	Power	---		Power-50%		---	P-value		0.009	Power	---		Power-50%		---	P-value		0.018
506C/506	2	11	0.05	0.03	8	0.07	0.05	-	-	0.625	11	1.09	0.34	8	1.13	0.23	-	-	0.940	11	12.85	3.70	8	16.10	5.60	-	-	0.576
1598C/1598	2	10	0.04	0.04	10	0.00	0.00	-	-	0.343	10	0.50	0.31	10	0.00	0.00	-	+	0.138	10	6.13	5.58	10	0.00	0.00	-	+	0.198
846C/846	2	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.30	0.15	11	0.27	0.14	-	+	0.897	10	3.50	2.15	11	1.15	0.80	-	-	0.455
1650C/1650	2	11	0.01	0.01	6	0.00	0.00	-	+	0.341	11	0.73	0.20	6	0.00	0.00	-	+	0.004	11	13.76	5.68	6	0.00	0.00	-	-	0.010
Habitat Means			0.02	0.02		0.02	0.01		+			0.65	0.25		0.35	0.09		+			9.07	4.30		4.33	1.60		-	
Fisher's	Power		0.030		Power-50%		0.086	P-value		0.326	Power	---		Power-50%		---	P-value		0.008	Power	---		Power-50%		---	P-value		0.016
Stouffer's	Power		0.064		Power-50%		0.033	P-value		0.134	Power	---		Power-50%		---	P-value		0.017	Power	---		Power-50%		---	P-value		0.022
506C/506	3	11	0.31	0.05	8	0.18	0.08	-	+	0.175	11	3.00	0.36	8	2.13	0.61	-	+	0.206	11	62.05	10.38	8	33.75	14.71	-	-	0.155
1598C/1598	3	7	0.20	0.06	9	0.00	0.00	-	+	0.020	7	2.00	0.49	9	0.44	0.18	-	+	0.005	7	39.66	15.27	9	11.81	6.70	-	+	0.069
846C/846	3	7	0.06	0.06	8	0.01	0.01	-	+	0.452	7	1.14	0.34	8	0.75	0.25	-	+	0.361	7	8.59	2.86	8	4.55	3.16	-	+	0.203
1650C/1650	3	12	0.19	0.06	6	0.00	0.00	-	+	0.008	12	1.83	0.41	6	0.33	0.21	-	+	0.024	12	33.14	10.67	6	0.85	0.63	-	+	0.006
Habitat Means			0.19	0.06		0.05	0.02		+			1.99	0.40		0.91	0.31		-			35.87	9.83		12.78	6.30		+	
Fisher's	Power		---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.001
Stouffer's	Power		---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.003

(a) Modified Shannon Index.
(b) Taxa richness calculations are explained in the methods.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Invertebrates								Rock								Perennials (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	12	0.73	0.33	8	4.70	3.23	-	-	0.323	12	88.34	5.36	8	93.76	4.13	-	-	0.425	12	8.44	5.22	8	1.25	0.82	-	+	0.337
1598C/1598	1	10	2.13	1.24	10	1.63	1.37	-	+	0.679	10	91.51	3.85	10	98.00	1.74	-	-	0.057	10	5.51	3.02	10	0.38	0.38	-	+	0.042
846C/846	1	10	1.63	1.12	12	0.11	0.11	-	+	0.256	10	90.13	3.02	12	98.55	1.34	-	-	0.007	10	4.88	2.95	12	1.36	1.24	-	+	0.279
1650C/1650	1	12	2.50	2.50	8	0.00	0.00	-	+	0.339	12	97.19	2.49	8	98.75	1.25	-	-	0.731	12	0.32	0.32	8	0.63	0.63	-	-	0.701
Habitat Means			1.72	1.28		1.60	1.17		+			91.78	3.70		97.30	2.10		-			4.77	2.88		0.93	0.75		+	
Fisher's	Power		0.092		Power-50%		0.839	P-value		0.253	Power	---		Power-50%		---	P-value		0.003	Power	---		Power-50%		---	P-value		0.041
Stouffer's	Power		0.221		Power-50%		0.594	P-value		0.178	Power	---		Power-50%		---	P-value		0.005	Power	---		Power-50%		---	P-value		0.018
506C/506	2	11	4.67	1.87	8	6.43	2.75	-	-	0.663	11	79.78	5.16	8	77.51	5.30	-	+	0.575	11	12.05	3.55	8	9.70	6.04	-	+	0.485
1598C/1598	2	10	4.88	1.59	10	2.75	1.56	-	+	0.163	10	89.01	5.21	10	97.25	1.56	-	-	0.026	10	1.88	1.36	10	0.00	0.00	-	+	0.118
846C/846	2	10	7.65	2.14	11	2.97	0.82	-	+	0.064	10	81.40	6.87	11	95.92	1.47	-	-	0.035	10	3.50	2.15	11	1.15	0.80	-	-	0.455
1650C/1650	2	11	4.55	1.66	6	0.42	0.42	-	+	0.084	11	81.73	5.29	6	97.72	1.83	-	-	0.019	11	12.62	5.80	6	0.00	0.00	-	-	0.028
Habitat Means			5.48	1.83		3.15	1.40		+			82.97	5.65		92.10	2.55		-			7.53	3.25		2.73	1.70		-	
Fisher's	Power		---		Power-50%		---	P-value		0.015	Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.010
Stouffer's	Power		---		Power-50%		---	P-value		0.013	Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.014
506C/506	3	11	2.62	0.96	8	4.85	2.25	-	-	0.605	11	34.45	9.81	8	61.41	13.50	-	-	0.161	11	13.76	2.37	8	25.64	12.70	-	-	0.619
1598C/1598	3	7	1.80	1.02	9	10.98	1.84	-	-	0.000	7	57.70	15.21	9	77.22	7.46	-	-	0.240	7	21.26	11.60	9	11.81	6.70	-	+	0.365
846C/846	3	7	8.23	2.71	8	6.73	2.35	-	+	0.697	7	78.23	7.97	8	87.98	3.36	-	-	0.245	7	7.51	3.05	8	1.26	0.63	-	+	0.064
1650C/1650	3	12	4.28	1.73	6	2.50	2.50	-	-	0.379	12	62.52	10.26	6	96.68	2.41	-	-	0.015	12	20.12	7.97	6	0.00	0.00	-	+	0.006
Habitat Means			4.23	1.60		6.28	2.25		-			58.23	10.82		80.83	6.70		-			15.68	6.28		9.67	5.00		+	
Fisher's	Power		---		Power-50%		---	P-value		0.008	Power	---		Power-50%		---	P-value		0.003	Power	---		Power-50%		---	P-value		0.004
Stouffer's	Power		---		Power-50%		---	P-value		0.002	Power	---		Power-50%		---	P-value		0.022	Power	---		Power-50%		---	P-value		0.022

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.31. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Coarse Textured. May 1991. Undisturbed. (Continued.)

		Annuals (A)								Ephemerals (AE)																
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV D P
506C/506	1	12	0.21	0.21	8	0.31	0.31	-	-	0.776	12	0.00	0.00	8	0.00	0.00	-	o	1.000							
1598C/1598	1	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000							
846C/846	1	10	0.25	0.25	12	0.00	0.00	-	+	0.343	10	0.25	0.25	12	0.00	0.00	-	+	0.343							
1650C/1650	1	12	0.00	0.00	8	0.63	0.63	-	-	0.351	12	0.00	0.00	8	0.63	0.63	-	-	0.351							
Habitat Means			0.13	0.13		0.23	0.23		-			0.08	0.08		0.15	0.15		+								
Fisher's		Power	---		Power-50%		---	P-value		0.522	Power	---		Power-50%		---	P-value		0.571 y	Power	---		Power-50%		---	P-value
Stouffer's		Power	---		Power-50%		---	P-value		0.513	Power	---		Power-50%		---	P-value		0.486	Power	---		Power-50%		---	P-value
506C/506	2	11	0.80	0.54	8	6.43	2.53	-	-	0.020	11	0.68	0.49	8	0.00	0.00	-	+	0.174							
1598C/1598	2	10	4.25	4.25	10	0.00	0.00	-	+	0.343	10	4.25	4.25	10	0.00	0.00	-	+	0.343							
846C/846	2	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000							
1650C/1650	2	11	1.15	0.90	6	0.00	0.00	-	+	0.132	11	0.12	0.12	6	0.00	0.00	-	-	0.341							
Habitat Means			1.57	1.43		1.60	0.63		+			1.27	1.22		0.00	0.00		+								
Fisher's		Power	0.014		Power-50%		0.152	P-value		0.240xy	Power	0.139		Power-50%		0.057	P-value		0.101	Power	---		Power-50%		---	P-value
Stouffer's		Power	0.087		Power-50%		0.052	P-value		0.108	Power	0.056		Power-50%		0.032	P-value		0.132	Power	---		Power-50%		---	P-value
506C/506	3	11	48.32	10.26	8	8.14	4.53	-	+	0.004	11	47.29	10.36	8	4.69	4.69	-	+	0.001							
1598C/1598	3	7	18.40	10.48	9	0.00	0.00	-	+	0.102	7	17.33	10.63	9	0.00	0.00	-	+	0.122							
846C/846	3	7	1.09	0.70	8	3.29	3.29	-	-	0.890	7	0.54	0.54	8	3.13	3.13	-	-	0.626							
1650C/1650	3	12	13.04	7.48	6	0.85	0.63	-	+	0.079	12	12.30	7.53	6	0.85	0.63	-	+	0.129							
Habitat Means			20.20	7.25		3.08	2.10		+			19.35	7.25		2.18	2.10		+								
Fisher's		Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value
Stouffer's		Power	---		Power-50%		---	P-value		0.027	Power	---		Power-50%		---	P-value		0.045	Power	---		Power-50%		---	P-value

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.32. Algal Percent Cover. Chlorophyta. Prince William Sound. Coarse Textured. May 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group: Bladed Greens								Bladed Greens (AE) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000
1598C/1598	1	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	1	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	0.00	0.00	-	o	1.000
1650C/1650	1	12	0.00	0.00	8	0.63	0.63	-	-	0.351	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.15	0.15		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.469	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.410	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	11	0.68	0.49	8	0.00	0.00	-	+	0.174	11	0.12	0.12	8	0.00	0.00	-	+	0.341	11	0.12	0.12	8	0.00	0.00	-	+	0.341
1598C/1598	2	10	3.00	3.00	10	0.00	0.00	-	+	0.343	10	3.00	3.00	10	0.00	0.00	-	+	0.343	10	3.00	3.00	10	0.00	0.00	-	+	0.343
846C/846	2	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000
1650C/1650	2	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.92	0.88		0.00	0.00		+			0.78	0.78		0.00	0.00		+			0.78	0.78		0.00	0.00		-	
Fisher's		Power	0.021		Power-50%		0.008	P-value		0.192	Power	---		Power-50%		---	P-value		0.277	Power	---		Power-50%		---	P-value		0.277
Stouffer's		Power	0.011		Power-50%		0.006	P-value		0.187	Power	---		Power-50%		---	P-value		0.188	Power	---		Power-50%		---	P-value		0.188
506C/506	3	11	6.15	2.74	8	2.50	2.50	-	+	0.167	11	2.05	1.35	8	0.63	0.63	-	-	0.443	11	2.05	1.35	8	0.63	0.63	-	-	0.443
1598C/1598	3	7	17.50	9.85	9	0.00	0.00	-	+	0.100	7	0.90	0.71	9	0.00	0.00	-	+	0.199	7	0.90	0.71	9	0.00	0.00	-	-	0.199
846C/846	3	7	0.19	0.19	8	0.00	0.00	-	+	0.356	7	0.00	0.00	8	0.00	0.00	-	o	1.000	7	0.00	0.00	8	0.00	0.00	-	o	1.000
1650C/1650	3	12	7.29	5.20	6	0.85	0.63	-	+	0.581	12	7.29	5.20	6	0.22	0.22	-	+	0.257	12	7.29	5.20	6	0.22	0.22	-	+	0.257
Habitat Means			7.80	4.50		0.85	0.78		+			2.57	1.82		0.20	0.20		+			2.57	1.82		0.20	0.20		-	
Fisher's		Power	---		Power-50%		---	P-value		0.031	Power	0.143		Power-50%		0.276	P-value		0.108	Power	0.146		Power-50%		0.267	P-value		0.108
Stouffer's		Power	---		Power-50%		---	P-value		0.027	Power	---		Power-50%		---	P-value		0.070	Power	---		Power-50%		---	P-value		0.070

(a) Kornmannia, Monostroma, Ulva and Ulvaria.
x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Fine Filamentous Greens								Acrosiphonia sp. (A)								Chaetomorpha/Rhizoclonium (A) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000
1598C/1598	1	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	1	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	0.00	0.00	-	o	1.000
1650C/1650	1	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	11	0.45	0.45	8	0.00	0.00	-	+	0.341	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	0.00	0.00	8	0.00	0.00	-	o	1.000
1598C/1598	2	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	2	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000
1650C/1650	2	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.13	0.13		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.464	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	11	3.42	1.60	8	1.88	1.87	-	+	0.340	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	0.00	0.00	8	0.00	0.00	-	o	1.000
1598C/1598	3	7	16.61	9.82	9	0.00	0.00	-	+	0.111	7	0.00	0.00	9	0.00	0.00	-	o	1.000	7	1.07	1.07	9	0.00	0.00	-	+	0.356
846C/846	3	7	0.19	0.19	8	0.00	0.00	-	+	0.356	7	0.00	0.00	8	0.00	0.00	-	o	1.000	7	0.00	0.00	8	0.00	0.00	-	o	1.000
1650C/1650	3	12	0.00	0.00	6	0.63	0.63	-	-	0.363	12	0.00	0.00	6	0.00	0.00	-	o	1.000	12	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			5.05	2.90		0.63	0.63		+			0.00	0.00		0.00	0.00		o			0.27	0.27		0.00	0.00		+	
Fisher's		Power	0.197		Power-50%		0.254	P-value		0.106	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.472
Stouffer's		Power	---		Power-50%		---	P-value		0.064	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.195

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.32. Algal Percent Cover. Chlorophyta. Prince William Sound. Coarse Textured. May 1991. Undisturbed. (Continued.)

		Cladophora sp. (AE)								Ulothrix sp. (AE)								Morphological Group: Tubular and Saccate Greens							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000
1598C/1598	1	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	1	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	0.00	0.00	-	o	1.000
1650C/1650	1	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.63	0.63	-	-	0.351
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.15	0.15		-	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.469
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.410
506C/506	2	11	0.45	0.45	8	0.00	0.00	-	+	0.341	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	0.12	0.12	8	0.00	0.00	-	-	0.341
1598C/1598	2	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	2	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000
1650C/1650	2	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.13	0.13		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.02	0.02		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.464	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.464
Stouffer's		Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.498
506C/506	3	11	3.42	1.60	8	1.88	1.87	-	+	0.340	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	0.68	0.49	8	0.00	0.00	-	+	0.174
1598C/1598	3	7	15.54	10.04	9	0.00	0.00	-	+	0.172	7	0.00	0.00	9	0.00	0.00	-	o	1.000	7	0.00	0.00	9	0.00	0.00	-	o	1.000
846C/846	3	7	0.19	0.19	8	0.00	0.00	-	.	0.356	7	0.00	0.00	8	0.00	0.00	-	o	1.000	7	0.00	0.00	8	0.00	0.00	-	o	1.000
1650C/1650	3	12	0.00	0.00	6	0.00	0.00	-	o	1.000	12	0.00	0.00	6	0.63	0.63	-	-	0.363	12	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			4.78	2.95		0.48	0.48		-			0.00	0.00		0.15	0.15		-			0.17	0.13		0.00	0.00		+	
Fisher's		Power	0.251		Power-50%		0.295	P-value		0.103	Power	---		Power-50%		---	P-value		0.477	Power	0.001		Power-50%		0.000	P-value		0.339
Stouffer's		Power	---		Power-50%		---	P-value		0.063	Power	---		Power-50%		---	P-value		0.413	Power	0.000		Power-50%		0.000	P-value		0.497

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Dec

		Blidingia/Enteromorpha (AE) (a)																										
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	12	0.00	0.00	8	0.00	0.00	-	o	1.000																		
1598C/1598	1	10	0.00	0.00	10	0.00	0.00	-	o	1.000																		
846C/846	1	10	0.00	0.00	12	0.00	0.00	-	o	1.000																		
1650C/1650	1	12	0.00	0.00	8	0.63	0.63	-	-	0.351																		
Habitat Means			0.00	0.00		0.15	0.15		-																			
Fisher's		Power	---		Power-50%		---	P-value		0.469	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.410	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
506C/506	2	11	0.12	0.12	8	0.00	0.00	-	+	0.341																		
1598C/1598	2	10	0.00	0.00	10	0.00	0.00	-	o	1.000																		
846C/846	2	10	0.00	0.00	11	0.00	0.00	-	o	1.000																		
1650C/1650	2	11	0.00	0.00	6	0.00	0.00	-	o	1.000																		
Habitat Means			0.02	0.02		0.00	0.00		+																			
Fisher's		Power	---		Power-50%		---	P-value		0.464	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
506C/506	3	11	0.68	0.49	8	0.00	0.00	-	+	0.174																		
1598C/1598	3	7	0.00	0.00	9	0.00	0.00	-	o	1.000																		
846C/846	3	7	0.00	0.00	8	0.00	0.00	-	o	1.000																		
1650C/1650	3	12	0.00	0.00	6	0.00	0.00	-	o	1.000																		
Habitat Means			0.17	0.13		0.00	0.00		+																			
Fisher's		Power	0.001		Power-50%		0.000	P-value		0.339	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.497	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.33. Algal Percent Cover. Phaeophyta. Prince William Sound. Coarse Textured. May 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group: Bladed Browns								Fucus cottonii (P)							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
506C/506	1	12	8.44	5.22	8	1.25	0.82	-	+	0.337	12	8.44	5.22	8	1.25	0.82	-	+	0.337	12	0.00	0.00	8	0.00	0.00	-	o	1.000
1598C/1598	1	10	5.51	3.02	10	0.38	0.38	-	+	0.042	10	5.51	3.02	10	0.38	0.38	-	+	0.042	10	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	1	10	5.13	2.91	12	1.36	1.24	-	+	0.189	10	4.88	2.95	12	1.36	1.24	-	+	0.279	10	1.50	1.50	12	0.00	0.00	-	+	0.343
1650C/1650	1	12	0.32	0.32	8	0.63	0.63	-	-	0.701	12	0.32	0.32	8	0.63	0.63	-	-	0.701	12	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			4.82	2.85		0.93	0.75		+			4.77	2.88		0.93	0.75		+			0.38	0.38		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.032	Power	---		Power-50%		---	P-value		0.041	Power	---		Power-50%		---	P-value		0.465
Stouffer's		Power	---		Power-50%		---	P-value		0.015	Power	---		Power-50%		---	P-value		0.018	Power	---		Power-50%		---	P-value		0.397
506C/506	2	11	12.05	3.55	8	9.70	6.04	-	+	0.485	11	12.05	3.55	8	9.70	6.04	-	+	0.485	11	0.00	0.00	8	0.00	0.00	-	o	1.000
1598C/1598	2	10	3.13	2.60	10	0.00	0.00	-	+	0.151	10	1.88	1.36	10	0.00	0.00	-	+	0.118	10	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	2	10	3.50	2.15	11	1.15	0.80	-	+	0.455	10	3.50	2.15	11	1.15	0.80	-	+	0.455	10	0.00	0.00	11	0.00	0.00	-	o	1.000
1650C/1650	2	11	12.74	5.83	6	0.00	0.00	-	+	0.028	11	12.62	5.80	6	0.00	0.00	-	+	0.028	11	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			7.85	3.55		2.73	1.70		+			7.53	3.25		2.73	1.70		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.013	Power	---		Power-50%		---	P-value		0.010	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.019	Power	---		Power-50%		---	P-value		0.014	Power	---		Power-50%		---	P-value		0.500
506C/506	3	11	55.81	9.34	8	27.20	13.22	-	+	0.069	11	13.76	2.37	8	24.70	12.34	-	-	0.649	11	0.00	0.00	8	0.00	0.00	-	o	1.000
1598C/1598	3	7	7.69	2.68	9	11.81	6.70	-	-	0.949	7	6.79	2.16	9	11.81	6.70	-	-	0.979	7	0.00	0.00	9	0.00	0.00	-	o	1.000
846C/846	3	7	7.87	3.04	8	4.55	3.16	-	+	0.373	7	7.51	3.05	8	1.26	0.63	-	+	0.064	7	0.00	0.00	8	0.00	0.00	-	o	1.000
1650C/1650	3	12	21.89	8.41	6	0.00	0.00	-	+	0.008	12	16.37	7.98	6	0.00	0.00	-	+	0.017	12	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			23.32	5.85		10.90	5.77		+			11.13	3.93		9.45	4.90		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.004	Power	---		Power-50%		---	P-value		0.018	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.249		Power-50%		0.561	P-value		0.201	Power	0.254		Power-50%		0.547	P-value		0.144	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Fucus gardneri (P)								Adult Fucus gardneri (P) (> 2cm)								Juvenile Fucus gardneri (P) (<= 2cm)							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
506C/506	1	12	8.44	5.22	8	1.25	0.82	-	+	0.337	12	8.13	5.13	8	0.79	0.53	-	+	0.211	12	0.32	0.32	8	0.48	0.33	-	-	0.523
1598C/1598	1	10	5.51	3.02	10	0.38	0.38	-	+	0.042	10	4.26	2.23	10	0.38	0.38	-	+	0.046	10	1.26	0.88	10	0.00	0.00	-	-	0.113
846C/846	1	10	3.38	2.75	12	1.36	1.24	-	+	0.563	10	3.38	2.75	12	1.36	1.24	-	+	0.563	10	0.00	0.00	12	0.00	0.00	-	o	1.000
1650C/1650	1	12	0.32	0.32	8	0.63	0.63	-	-	0.701	12	0.32	0.32	8	0.31	0.31	-	+	0.894	12	0.00	0.00	8	0.31	0.31	-	-	0.351
Habitat Means			4.40	2.83		0.93	0.75		+			4.03	2.60		0.73	0.60		+			0.40	0.30		0.20	0.15		-	
Fisher's		Power	---		Power-50%		---	P-value		0.066	Power	---		Power-50%		---	P-value		0.040	Power	0.002		Power-50%		0.012	P-value		0.467 y
Stouffer's		Power	---		Power-50%		---	P-value		0.025	Power	---		Power-50%		---	P-value		0.020	Power	0.000		Power-50%		0.156	P-value		0.894
506C/506	2	11	12.05	3.55	8	9.70	6.04	-	+	0.485	11	12.05	3.55	8	9.70	6.04	-	+	0.485	11	0.00	0.00	8	0.00	0.00	-	o	1.000
1598C/1598	2	10	1.88	1.36	10	0.00	0.00	-	+	0.118	10	1.63	1.12	10	0.00	0.00	-	+	0.109	10	0.25	0.25	10	0.00	0.00	-	+	0.343
846C/846	2	10	3.50	2.15	11	1.15	0.80	-	+	0.455	10	3.50	2.15	11	1.15	0.80	-	+	0.455	10	0.00	0.00	11	0.00	0.00	-	o	1.000
1650C/1650	2	11	12.62	5.80	6	0.00	0.00	-	+	0.028	11	12.39	5.76	6	0.00	0.00	-	+	0.029	11	0.23	0.23	6	0.00	0.00	-	+	0.341
Habitat Means			7.53	3.25		2.73	1.70		+			7.40	3.18		2.73	1.70		+			0.13	0.13		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.010	Power	---		Power-50%		---	P-value		0.010	Power	---		Power-50%		---	P-value		0.277
Stouffer's		Power	---		Power-50%		---	P-value		0.014	Power	---		Power-50%		---	P-value		0.013	Power	---		Power-50%		---	P-value		0.133
506C/506	3	11	13.76	2.37	8	24.70	12.34	-	-	0.649	11	13.65	2.38	8	23.45	12.58	-	-	0.747	11	0.12	0.12	8	1.25	1.25	-	-	0.493
1598C/1598	3	7	6.79	2.16	9	11.81	6.70	-	-	0.979	7	6.61	2.16	9	11.53	6.51	-	-	0.975	7	0.19	0.19	9	0.28	0.28	-	-	0.958
846C/846	3	7	7.51	3.05	8	1.26	0.63	-	+	0.064	7	7.51	3.05	8	1.10	0.64	-	+	0.046	7	0.00	0.00	8	0.16	0.16	-	-	0.351
1650C/1650	3	12	16.37	7.98	6	0.00	0.00	-	+	0.017	12	16.37	7.98	6	0.00	0.00	-	-	0.017	12	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			11.13	3.93		9.45	4.90		+			11.05	3.93		9.02	4.93		+			0.08	0.08		0.45	0.45		-	
Fisher's		Power	---		Power-50%		---	P-value		0.018	Power	---		Power-50%		---	P-value		0.013	Power	---		Power-50%		---	P-value		0.331
Stouffer's		Power	0.254		Power-50%		0.542	P-value		0.144	Power	0.246		Power-50%		0.550	P-value		0.136	Power	---		Power-50%		---	P-value		0.378

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.33. Algal Percent Cover. Phaeophyta. Prince William Sound. Coarse Textured. May 1991. Undisturbed. (Continued.)

		Fucus Stipes (P) (a)								Morphological Group: Coarse Filamentous Browns								Dictyosiphon sp. (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000
1598C/1598	1	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	1	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	0.00	0.00	-	o	1.000
1650C/1650	1	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	11	0.45	0.30	8	0.00	0.00	-	+	0.167	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	0.00	0.00	8	0.00	0.00	-	o	1.000
1598C/1598	2	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	2	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000
1650C/1650	2	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.13	0.08		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.007		Power-50%		0.002	P-value		0.332	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.497	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	0.91	0.70	8	0.31	0.31	-	+	0.598	11	0.00	0.00	8	0.00	0.00	-	o	1.000
1598C/1598	3	7	0.19	0.19	9	0.00	0.00	-	+	0.356	7	0.00	0.00	9	0.00	0.00	-	o	1.000	7	0.00	0.00	9	0.00	0.00	-	o	1.000
846C/846	3	7	0.00	0.00	8	0.00	0.00	-	o	1.000	7	0.00	0.00	8	0.16	0.16	-	-	0.351	7	0.00	0.00	8	0.00	0.00	-	o	1.000
1650C/1650	3	12	0.00	0.00	6	0.00	0.00	-	o	1.000	12	0.52	0.42	6	0.00	0.00	-	+	0.190	12	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.05	0.05		0.00	0.00		+			0.35	0.27		0.13	0.13		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.472	Power	0.008		Power-50%		0.009	P-value		0.352	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.195	Power	0.000		Power-50%		0.000	P-value		0.475	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Myelophycus/Scytosiphon (A) (a)								Morphological Group: Fine Filamentous Browns								Fine Filamentous Browns (AE) (b)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000
1598C/1598	1	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	1	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.25	0.25	12	0.00	0.00	-	+	0.343	10	0.25	0.25	12	0.00	0.00	-	-	0.343
1650C/1650	1	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.08	0.08		0.00	0.00		+			0.08	0.08		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.465	Power	---		Power-50%		---	P-value		0.465
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.397	Power	---		Power-50%		---	P-value		0.397
506C/506	2	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	0.00	0.00	8	0.00	0.00	-	o	1.000
1598C/1598	2	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	1.25	1.25	10	0.00	0.00	-	+	0.343	10	1.25	1.25	10	0.00	0.00	-	-	0.343
846C/846	2	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000
1650C/1650	2	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.12	0.12	6	0.00	0.00	-	+	0.341	11	0.12	0.12	6	0.00	0.00	-	-	0.341
Habitat Means			0.00	0.00		0.00	0.00		o			0.35	0.35		0.00	0.00		+			0.35	0.35		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.277	Power	---		Power-50%		---	P-value		0.277
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.133	Power	---		Power-50%		---	P-value		0.133
506C/506	3	11	0.91	0.70	8	0.31	0.31	-	+	0.598	11	41.15	9.48	8	2.19	2.19	-	+	0.001	11	41.15	9.48	8	2.19	2.19	-	+	0.001
1598C/1598	3	7	0.00	0.00	9	0.00	0.00	-	o	1.000	7	0.90	0.90	9	0.00	0.00	-	+	0.356	7	0.90	0.90	9	0.00	0.00	-	+	0.356
846C/846	3	7	0.00	0.00	8	0.16	0.16	-	-	0.351	7	0.36	0.36	8	3.13	3.13	-	-	0.570	7	0.36	0.36	8	3.13	3.13	-	-	0.570
1650C/1650	3	12	0.52	0.42	6	0.00	0.00	-	+	0.190	12	5.01	2.82	6	0.00	0.00	-	+	0.043	12	5.01	2.82	6	0.00	0.00	-	+	0.043
Habitat Means			0.35	0.27		0.13	0.13		+			11.87	3.40		1.32	1.32		+			11.87	3.40		1.32	1.32		+	
Fisher's		Power	0.007		Power-50%		0.021	P-value		0.352	Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.001
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.475	Power	0.098		Power-50%		0.113	P-value		0.113	Power	0.100		Power-50%		0.109	P-value		0.113

(a) Genera not separated.

(b) Elachista, Ectocarpus and Pilayella.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.34. Algal Percent Cover. Rhodophyta. Prince William Sound. Coarse Textured. May 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = ontrol mean; O = oiled mean; CV coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability lue; dashes = insufficient data.

		Total Rhodophyta								Morphological Group: Bladed Reds								Palmaria spp. (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	12	0.21	0.21	8	0.31	0.31	-	-	0.776	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000
1598C/1598	1	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	1	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	0.00	0.00	-	o	1.000
1650C/1650	1	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			0.05	0.05		0.08	0.08		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.641	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.499	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	11	0.12	0.12	8	6.43	2.53	-	-	0.022	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	0.00	0.00	8	0.00	0.00	-	o	1.000
1598C/1598	2	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	2	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000
1650C/1650	2	11	1.03	0.90	6	0.00	0.00	-	+	0.217	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.28	0.25		1.60	0.63		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.070		Power-50%		0.001	P-value		0.152	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.614	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	11	0.12	0.12	8	4.08	1.51	-	-	0.010	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	0.00	0.00	8	0.00	0.00	-	o	1.000
1598C/1598	3	7	14.47	11.40	9	0.00	0.00	-	+	0.173	7	0.00	0.00	9	0.00	0.00	-	o	1.000	7	0.00	0.00	9	0.00	0.00	-	o	1.000
846C/846	3	7	0.54	0.54	8	0.00	0.00	-	+	0.356	7	0.00	0.00	8	0.00	0.00	-	o	1.000	7	0.00	0.00	8	0.00	0.00	-	o	1.000
1650C/1650	3	12	3.97	2.91	6	0.00	0.00	-	+	0.098	12	0.00	0.00	6	0.00	0.00	-	o	1.000	12	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			4.78	3.73		1.02	0.38		.			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.072x	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.028	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Coarse Filamentous Reds								Cryptosiphonia woodii (A)								Gloiopeltis furcata (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	12	0.21	0.21	8	0.31	0.31	-	-	0.776	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.21	0.21	8	0.31	0.31	-	-	0.776
1598C/1598	1	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	1	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	0.00	0.00	-	o	1.000
1650C/1650	1	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			0.05	0.05		0.08	0.08		-			0.00	0.00		0.00	0.00		o			0.05	0.05		0.08	0.08		-	
Fisher's		Power	---		Power-50%		---	P-value		0.641	Power	---		Power-50%		---	P-value		0.698	Po	---		Power-50%		---	P-value		0.641
Stouffer's		Power	---		Power-50%		---	P-value		0.499	Power	---		Power-50%		---	P-value		0.500	Po	---		Power-50%		---	P-value		0.499
506C/506	2	11	0.00	0.00	8	6.43	2.53	-	-	0.018	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	0.00	0.00	8	6.43	2.53	-	-	0.018
1598C/1598	2	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	2	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000
1650C/1650	2	11	1.03	0.90	6	0.00	0.00	-	+	0.217	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	1.03	0.90	6	0.00	0.00	-	-	0.217
Habitat Means			0.25	0.23		1.60	0.63		-			0.00	0.00		0.00	0.00		o			0.25	0.23		1.60	0.63		-	
Fisher's		Power	0.007		Power-50%		0.000	P-value		0.132	Power	---		Power-50%		---	P-value		0.698	Po	0.008		Power-50%		0.000	P-value		0.132
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.613	Power	---		Power-50%		---	P-value		0.500	Po	0.000		Power-50%		0.000	P-value		0.613
506C/506	3	11	0.12	0.12	8	3.60	1.59	-	-	0.032	11	0.12	0.12	8	1.56	1.56	-	-	0.475	11	0.00	0.00	8	1.10	0.64	-	-	0.094
1598C/1598	3	7	14.47	11.40	9	0.00	0.00	-	+	0.173	7	0.00	0.00	9	0.00	0.00	-	o	1.000	7	0.00	0.00	9	0.00	0.00	-	o	1.000
846C/846	3	7	0.54	0.54	8	0.00	0.00	-	+	0.356	7	0.00	0.00	8	0.00	0.00	-	o	1.000	7	0.54	0.54	8	0.00	0.00	-	+	0.356
1650C/1650	3	12	3.97	2.91	6	0.00	0.00	-	+	0.098	12	0.00	0.00	6	0.00	0.00	-	o	1.000	12	0.22	0.15	6	0.00	0.00	-	+	0.166
Habitat Means			4.78	3.73		0.90	0.40		+			0.02	0.02		0.40	0.40		-			0.18	0.18		0.27	0.15		+	
Fisher's		Power	---		Power-50%		---	P-value		0.072x	Power	---		Power-50%		---	P-value		0.533	Po	0.007		Power-50%		0.037	P-value		0.271xy
Stouffer's		Power	---		Power-50%		---	P-value		0.028	Power	---		Power-50%		---	P-value		0.499	Po	0.000		Power-50%		0.000	P-value		0.280

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.34. Algal Percent Cover. Rhodophyta. Prince William Sound. Coarse Textured. May 1991. Undisturbed. (Continued.)

Site Pair	Mvd	Neorhodomela/Rhodomela (P) (a) N	C	SE	N	O	SE	CV	D	P	Odonthalia floccosa (P) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Saccate Reds N	C	SE	N	O	SE	CV	D	P
506C/506	1	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000
1598C/1598	1	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	1	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	0.00	0.00	-	o	1.000
1650C/1650	1	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	0.12	0.12	8	0.00	0.00	-	+	0.341
1598C/1598	2	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	2	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000
1650C/1650	2	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.02	0.02		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.464
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.498
506C/506	3	11	0.00	0.00	8	0.31	0.31	-	-	0.351	11	0.00	0.00	8	0.63	0.63	-	-	0.351	11	0.00	0.00	8	0.48	0.48	-	-	0.351
1598C/1598	3	7	0.00	0.00	9	0.00	0.00	-	o	1.000	7	14.47	11.40	9	0.00	0.00	-	-	0.173	7	0.00	0.00	9	0.00	0.00	-	o	1.000
846C/846	3	7	0.00	0.00	8	0.00	0.00	-	o	1.000	7	0.00	0.00	8	0.00	0.00	-	o	1.000	7	0.00	0.00	8	0.00	0.00	-	o	1.000
1650C/1650	3	12	0.00	0.00	6	0.00	0.00	-	o	1.000	12	3.75	2.91	6	0.00	0.00	-	+	0.137	12	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.08	0.08		-			4.57	3.58		0.15	0.15		+			0.00	0.00		0.13	0.13		-	
Fisher's		Power	---		Power-50%		---	P-value		0.469	Power	0.023		Power-50%		0.044	P-value		0.150	Power	---		Power-50%		---	P-value		0.469
Stouffer's		Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		0.052	Power	---		Power-50%		---	P-value		0.498

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Halosaccion glandiforme (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P
506C/506	1	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000
1598C/1598	1	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	1	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	0.00	0.00	-	o	1.000
1650C/1650	1	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	11	0.12	0.12	8	0.00	0.00	-	+	0.341	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	0.00	0.00	8	0.00	0.00	-	o	1.000
1598C/1598	2	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	2	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000
1650C/1650	2	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.02	0.02		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.464	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	11	0.00	0.00	8	0.48	0.48	-	-	0.351	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	0.00	0.00	8	0.00	0.00	-	o	1.000
1598C/1598	3	7	0.00	0.00	9	0.00	0.00	-	o	1.000	7	0.00	0.00	9	0.00	0.00	-	o	1.000	7	0.00	0.00	9	0.00	0.00	-	o	1.000
846C/846	3	7	0.00	0.00	8	0.00	0.00	-	o	1.000	7	0.00	0.00	8	0.00	0.00	-	o	1.000	7	0.00	0.00	8	0.00	0.00	-	o	1.000
1650C/1650	3	12	0.00	0.00	6	0.00	0.00	-	o	1.000	12	0.00	0.00	6	0.00	0.00	-	o	1.000	12	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.13	0.13		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.469	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.35. Algal Percent Cover. Invertebrates. Prince William Sound. Coarse Textured. May 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Balanomorpha								Lottiidae								Mytilus							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	12	0.73	0.33	8	2.51	2.02	-	-	0.599	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	1.25	1.25	-	-	0.351
1598C/1598	1	10	2.13	1.24	10	1.63	1.37	-	+	0.679	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	1	10	1.51	1.02	12	0.11	0.11	-	+	0.258	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	0.00	0.00	-	o	1.000
1650C/1650	1	12	2.50	2.50	8	0.00	0.00	-	+	0.339	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			1.70	1.25		1.05	0.87		·			0.00	0.00		0.00	0.00		o			0.00	0.00		0.33	0.33		-	
Fisher's		Power	0.147			Power-50%	0.826	P-value		0.231	Power	---			Power-50%	---	P-value		0.698	Power	---			Power-50%	---	P-value		0.469
Stouffer's		Power	0.211			Power-50%	0.581	P-value		0.177	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.498
506C/506	2	11	4.34	1.92	8	5.79	2.64	-	-	0.625	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	0.35	0.25	8	0.64	0.48	-	-	0.647
1598C/1598	2	10	4.88	1.59	10	2.50	1.49	-	+	0.132	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.25	0.25	-	-	0.343
846C/846	2	10	6.77	1.62	11	2.85	0.74	-	+	0.064	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.88	0.75	11	0.12	0.12	-	+	0.367
1650C/1650	2	11	4.10	1.60	6	0.42	0.42	-	+	0.095	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.45	0.45	6	0.00	0.00	-	+	0.341
Habitat Means			5.03	1.68		2.90	1.30		+			0.00	0.00		0.00	0.00		o			0.45	0.40		0.25	0.23		+	
Fisher's		Power	---			Power-50%	---	P-value		0.014	Power	---			Power-50%	---	P-value		0.698	Power	0.017			Power-50%	0.086	P-value		0.425
Stouffer's		Power	---			Power-50%	---	P-value		0.010	Power	---			Power-50%	---	P-value		0.500	Power	0.000			Power-50%	0.000	P-value		0.657
506C/506	3	11	2.51	0.94	8	3.13	1.93	-	-	0.882	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	0.12	0.12	8	1.73	0.91	-	-	0.077
1598C/1598	3	7	1.61	1.05	9	10.70	1.92	-	-	0.000	7	0.00	0.00	9	0.00	0.00	-	o	1.000	7	0.19	0.19	9	0.28	0.28	-	-	0.958
846C/846	3	7	7.16	2.49	8	6.41	2.36	-	+	0.776	7	0.00	0.00	8	0.00	0.00	-	o	1.000	7	1.07	0.74	8	0.31	0.31	-	+	0.395
1650C/1650	3	12	3.76	1.62	6	2.50	2.50	-	+	0.500	12	0.00	0.00	6	0.00	0.00	-	o	1.000	12	0.52	0.29	6	0.00	0.00	-	+	0.086
Habitat Means			3.78	1.53		5.68	2.17		-			0.00	0.00		0.00	0.00		o			0.48	0.33		0.58	0.38		-	
Fisher's		Power	---			Power-50%	---	P-value		0.010	Power	---			Power-50%	---	P-value		0.698	Power	0.107			Power-50%	0.424	P-value		0.385x
Stouffer's		Power	---			Power-50%	---	P-value		0.001	Power	---			Power-50%	---	P-value		0.500	Power	0.001			Power-50%	0.273	P-value		0.724

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Littorinidae																									
1598C/1598	1	10	0.00	0.00	10	0.00	0.00	-	o	1.000																	
846C/846	1	10	0.13	0.13	12	0.00	0.00	-	+	0.343																	
1650C/1650	1	12	0.00	0.00	8	0.00	0.00	-	o	1.000																	
Habitat Means			0.02	0.02		0.23	0.23		+																		
Fisher's		Power	---			Power-50%	---	P-value		0.571 y	Power	---			Power-50%	---	P-value			Power	---			Power-50%	---	P-value		
Stouffer's		Power	---			Power-50%	---	P-value		0.399	Power	---			Power-50%	---	P-value			Power	---			Power-50%	---	P-value		
506C/506	2	11	0.00	0.00	8	0.00	0.00	-	o	1.000																	
1598C/1598	2	10	0.00	0.00	10	0.00	0.00	-	o	1.000																	
846C/846	2	10	0.00	0.00	11	0.00	0.00	-	o	1.000																	
1650C/1650	2	11	0.00	0.00	6	0.00	0.00	-	o	1.000																	
Habitat Means			0.00	0.00		0.00	0.00		o																		
Fisher's		Power	---			Power-50%	---	P-value		0.698	Power	---			Power-50%	---	P-value			Power	---			Power-50%	---	P-value		
Stouffer's		Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value			Power	---			Power-50%	---	P-value		
506C/506	3	11	0.00	0.00	8	0.00	0.00	-	o	1.000																	
1598C/1598	3	7	0.00	0.00	9	0.00	0.00	-	o	1.000																	
846C/846	3	7	0.00	0.00	8	0.00	0.00	-	o	1.000																	
1650C/1650	3	12	0.00	0.00	6	0.00	0.00	-	o	1.000																	
Habitat Means			0.00	0.00		0.00	0.00		o																		
Fisher's		Power	---			Power-50%	---	P-value		0.698	Power	---			Power-50%	---	P-value			Power	---			Power-50%	---	P-value		
Stouffer's		Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value			Power	---			Power-50%	---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.36. Algal Percent Cover. Substrates. Prince William Sound. Coarse Textured. May 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Rock								Oiled Rock								Mud							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
506C/506	1	12	88.34	5.36	8	93.76	4.13	-	-	0.425	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000
1598C/1598	1	10	91.51	3.85	10	98.00	1.74	-	-	0.057	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	1	10	90.13	3.02	12	98.55	1.34	-	-	0.007	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	0.00	0.00	-	o	1.000
1650C/1650	1	12	97.19	2.49	8	98.75	1.25	-	-	0.731	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			91.78	3.70		97.30	2.10		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.003	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.005	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	11	79.78	5.16	8	77.51	5.30	-	+	0.575	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	0.00	0.00	8	0.00	0.00	-	o	1.000
1598C/1598	2	10	89.01	5.21	10	97.25	1.56	-	-	0.026	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	2	10	81.40	6.87	11	95.92	1.47	-	-	0.035	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000
1650C/1650	2	11	81.73	5.29	6	97.72	1.83	-	-	0.019	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			82.97	5.65		92.10	2.55		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	11	34.45	9.81	8	61.41	13.50	-	-	0.161	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	0.00	0.00	8	0.00	0.00	-	o	1.000
1598C/1598	3	7	57.70	15.21	9	77.22	7.46	-	-	0.240	7	0.00	0.00	9	0.00	0.00	-	o	1.000	7	0.00	0.00	9	0.00	0.00	-	o	1.000
846C/846	3	7	78.23	7.97	8	87.98	3.36	-	-	0.245	7	0.00	0.00	8	0.00	0.00	-	o	1.000	7	0.00	0.00	8	0.00	0.00	-	o	1.000
1650C/1650	3	12	62.52	10.26	6	96.68	2.41	-	-	0.015	12	0.00	0.00	6	0.00	0.00	-	o	1.000	12	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			58.23	10.82		80.83	6.70		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.003	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.022	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Sand								Shell Fragments								Water							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
506C/506	1	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000
1598C/1598	1	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	1	10	1.00	1.00	12	0.00	0.00	-	+	0.343	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	0.00	0.00	12	0.00	0.00	-	o	1.000
1650C/1650	1	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			0.25	0.25		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.465	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.397	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	0.23	0.23	8	0.00	0.00	-	+	0.341	11	2.05	2.05	8	0.00	0.00	-	+	0.341
1598C/1598	2	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	2	10	6.50	5.72	11	0.00	0.00	-	-	0.225	10	1.00	0.67	11	0.00	0.00	-	-	0.168	10	0.00	0.00	11	0.00	0.00	-	o	1.000
1650C/1650	2	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	1.88	1.88	-	-	0.363
Habitat Means			1.63	1.43		0.00	0.00		+			0.30	0.23		0.00	0.00		·			0.52	0.52		0.48	0.48		+	
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.384	Power	0.066		Power-50%		0.023	P-value		0.187	Power	---		Power-50%		---	P-value		0.568
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.369	Power	0.000		Power-50%		0.000	P-value		0.350	Power	---		Power-50%		---	P-value		0.585
506C/506	3	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	0.12	0.12	8	0.00	0.00	-	-	0.341	11	0.80	0.80	8	0.00	0.00	-	+	0.341
1598C/1598	3	7	0.00	0.00	9	0.00	0.00	-	o	1.000	7	0.00	0.00	9	0.00	0.00	-	o	1.000	7	0.00	0.00	9	0.00	0.00	-	o	1.000
846C/846	3	7	5.00	5.00	8	0.00	0.00	-	+	0.356	7	0.00	0.00	8	0.79	0.53	-	-	0.173	7	0.00	0.00	8	0.00	0.00	-	o	1.000
1650C/1650	3	12	0.00	0.00	6	0.00	0.00	-	o	1.000	12	0.11	0.11	6	0.00	0.00	-	-	0.339	12	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			1.25	1.25		0.00	0.00		+			0.05	0.05		0.20	0.13		-			0.20	0.20		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.472	Power	0.002		Power-50%		---	P-value		0.372 y	Power	---		Power-50%		---	P-value		0.464
Stouffer's		Power	---		Power-50%		---	P-value		0.400	Power	0.000		Power-50%		---	P-value		0.555	Power	---		Power-50%		---	P-value		0.498

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.36. Algal Percent Cover. Substrates. Prince William Sound. Coarse Textured. May 1991. Undisturbed. (Continued.)

		Zostera/Phyllospadix								Sand and Mud								Total Substrate							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	88.34	5.36	8	93.76	4.13	-	-	0.425
1598C/1598	1	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	91.51	3.85	10	98.00	1.74	-	-	0.057
846C/846	1	10	0.00	0.00	12	0.00	0.00	-	o	1.000	10	1.00	1.00	12	0.00	0.00	-	+	0.343	10	91.13	3.09	12	98.55	1.34	-	-	0.013
1650C/1650	1	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	97.19	2.49	8	98.75	1.25	-	-	0.731
Habitat Means			0.00	0.00		0.00	0.00		o			0.25	0.25		0.00	0.00		-			92.03	3.73		97.30	2.10		-	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.465	Power	---		Power-50%		---	P-value		0.005
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.397	Power	---		Power-50%		---	P-value		0.006
506C/506	2	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	2.27	2.04	8	0.00	0.00	-	+	0.224	11	82.05	4.41	8	77.51	5.30	-	+	0.413
1598C/1598	2	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	89.01	5.21	10	97.25	1.56	-	-	0.026
846C/846	2	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	7.50	6.17	11	0.00	0.00	-	-	0.158	10	88.90	3.89	11	95.92	1.47	-	-	0.093
1650C/1650	2	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	1.88	1.88	-	-	0.363	11	81.73	5.29	6	99.58	0.42	-	-	0.001
Habitat Means			0.00	0.00		0.00	0.00		o			2.45	2.05		0.48	0.48		+			85.43	4.70		92.57	2.20		-	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	0.008		Power-50%		0.014	P-value		0.188	Power	---		Power-50%		---	P-value		0.000
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.000	P-value		0.430	Power	---		Power-50%		---	P-value		0.000
506C/506	3	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	0.91	0.91	8	0.00	0.00	-	+	0.341	11	35.35	9.66	8	61.41	13.50	-	-	0.175
1598C/1598	3	7	0.71	0.71	9	0.00	0.00	-	-	0.356	7	0.00	0.00	9	0.00	0.00	-	o	1.000	7	57.70	15.21	9	77.22	7.46	-	-	0.240
846C/846	3	7	0.00	0.00	8	0.00	0.00	-	o	1.000	7	5.00	5.00	8	0.79	0.53	-	+	0.617	7	83.23	4.06	8	88.76	3.05	-	-	0.280
1650C/1650	3	12	0.00	0.00	6	0.00	0.00	-	o	1.000	12	0.11	0.11	6	0.00	0.00	-	+	0.339	12	62.62	10.28	6	96.68	2.41	-	-	0.016
Habitat Means			0.17	0.17		0.00	0.00		+			1.50	1.50		0.20	0.13		+			59.73	9.83		81.03	6.62		-	
Fisher's		Power	---		Power-50%		---	P-value		0.472	Power	0.069		Power-50%		---	P-value		0.212	Power	---		Power-50%		---	P-value		0.004
Stouffer's		Power	---		Power-50%		---	P-value		0.195	Power	0.000		Power-50%		---	P-value		0.354	Power	---		Power-50%		---	P-value		0.024

x At least one site pair p-value < *0.100 in opposite direction of overall tests.*
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.37. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Coarse Textured. July 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Algal Diversity Index (a)							Algal Taxa Richness (b)								Total Algae							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	12	0.00	0.00	11	0.04	0.03	-	-	0.170	12	0.25	0.13	11	0.55	0.25	-	-	0.291	12	12.08	6.56	11	2.95	1.84	-	+	0.416
1598C/1598	1	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.40	0.16	10	0.20	0.13	-	+	0.355	10	10.51	7.09	10	0.75	0.53	-	-	0.197
846C/846	1	9	0.00	0.00	12	0.00	0.00	-	o	1.000	9	0.56	0.18	12	0.17	0.11	-	+	0.066	9	10.84	4.99	12	0.73	0.62	-	+	0.057
1650C/1650	1	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.25	0.13	8	0.00	0.00	-	+	0.082	12	2.08	1.47	8	0.00	0.00	-	+	0.114
Habitat Means			0.00	0.00		0.01	0.01		-			0.36	0.15		0.23	0.12		+			8.88	5.05		1.13	0.72		+	
Fisher's		Power	0.004		Power-50%		---	P-value		0.335	Power	---		Power-50%		---	P-value		0.030	Power	---		Power-50%		---	P-value		0.008
Stouffer's		Power	0.000		Power-50%		---	P-value		0.497	Power	---		Power-50%		---	P-value		0.037	Power	---		Power-50%		---	P-value		0.017
506C/506	2	11	0.00	0.00	11	0.03	0.03	-	-	0.251	11	0.36	0.15	11	1.09	0.16	-	-	0.004	11	11.83	7.27	11	16.82	5.65	-	-	0.232
1598C/1598	2	9	0.08	0.05	10	0.00	0.00	-	+	0.103	9	1.44	0.34	10	0.10	0.10	-	+	0.004	9	39.73	12.45	10	0.13	0.13	-	+	0.003
846C/846	2	8	0.03	0.03	11	0.00	0.00	-	+	0.351	8	0.38	0.26	11	0.27	0.14	-	+	0.717	8	1.73	1.27	11	5.69	4.43	-	-	0.595
1650C/1650	2	12	0.08	0.04	7	0.00	0.00	-	+	0.042	12	0.92	0.26	7	0.00	0.00	-	+	0.005	12	5.01	2.29	7	0.00	0.00	-	+	0.009
Habitat Means			0.05	0.03		0.01	0.01		+			0.78	0.25		0.37	0.10		+			14.55	5.85		5.65	2.55		+	
Fisher's		Power	---		Power-50%		---	P-value		0.026	Power	---		Power-50%		---	P-value		0.001x	Power	---		Power-50%		---	P-value		0.002
Stouffer's		Power	---		Power-50%		---	P-value		0.012	Power	---		Powor-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.001
506C/506	3	11	0.26	0.05	10	0.10	0.04	-	+	0.030	11	2.18	0.33	10	1.90	0.46	-	+	0.617	11	43.65	10.59	10	39.76	13.18	-	-	0.833
1598C/1598	3	9	0.05	0.03	10	0.00	0.00	-	+	0.106	9	1.33	0.29	10	0.30	0.15	-	+	0.005	9	59.17	15.87	10	6.00	3.84	-	-	0.006
846C/846	3	8	0.00	0.00	9	0.06	0.04	-	-	0.170	8	0.75	0.16	9	0.78	0.28	-	-	0.935	8	32.83	13.40	9	18.89	9.96	-	-	0.375
1650C/1650	3	10	0.17	0.05	8	0.00	0.00	-	+	0.014	10	1.80	0.47	8	0.00	0.00	-	+	0.004	10	30.76	11.03	8	0.00	0.00	-	+	0.007
Habitat Means			0.12	0.03		0.04	0.02		+			1.52	0.31		0.74	0.22		+			41.63	12.73		16.17	6.75		+	
Fisher's		Power	---		Power-50%		---	P-value		0.002	Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.001
Stouffer's		Power	---		Power-50%		---	P-value		0.041	Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.000

(a) Modified Shannon Index.
(b) Taxa richness calculations are explained in the methods.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Invertebrates							Rock								Perennials (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	12	0.11	0.11	11	4.21	2.29	-	-	0.077	12	85.95	6.35	11	92.85	3.85	-	-	0.464	12	12.08	6.56	11	1.94	1.34	-	+	0.301
1598C/1598	1	10	6.63	4.39	10	5.00	2.86	-	+	0.691	10	82.89	7.78	10	94.25	3.29	-	-	0.167	10	10.51	7.09	10	0.75	0.53	-	+	0.197
846C/846	1	9	0.14	0.14	12	1.15	0.56	-	-	0.168	9	57.64	11.25	12	96.78	1.39	-	-	0.008	9	10.84	4.99	12	0.73	0.62	-	+	0.057
1650C/1650	1	12	2.19	1.67	8	0.00	0.00	-	+	0.133	12	95.73	2.35	8	100.00	0.00	-	-	0.058	12	2.08	1.47	8	0.00	0.00	-	+	0.114
Habitat Means			2.25	1.57		2.60	1.45		-			80.55	6.97		96.00	2.15		-			8.88	5.05		0.85	0.60		-	
Fisher's		Power	0.222		Power-50%		0.284	P-value		0.132	Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.007
Stouffer's		Power	0.117		Power-50%		0.394	P-value		0.635	Power	---		Power-50%		---	P-value		0.007	Power	---		Power-50%		---	P-value		0.017
506C/506	2	11	3.43	1.36	11	2.96	0.76	-	+	0.907	11	84.78	7.33	11	80.24	5.95	-	+	0.417	11	11.48	7.32	11	13.75	6.10	-	-	0.551
1598C/1598	2	9	11.12	5.72	10	4.50	2.63	-	-	0.238	9	49.17	13.34	10	95.38	2.73	-	-	0.005	9	30.29	11.13	10	0.13	0.13	-	-	0.005
846C/846	2	8	2.35	1.02	11	5.46	2.69	-	-	0.555	8	80.95	11.75	11	88.87	5.23	-	-	0.326	8	1.56	1.24	11	5.69	4.43	-	-	0.560
1650C/1650	2	12	16.68	3.96	7	1.80	1.39	-	-	0.006	12	78.34	5.05	7	98.23	1.39	-	-	0.001	12	2.93	1.51	7	0.00	0.00	-	-	0.021
Habitat Means			8.40	3.03		3.70	1.87		+			73.33	9.38		90.68	3.83		-			11.58	5.28		4.90	2.65		+	
Fisher's		Power	---		Power-50%		---	P-value		0.019	Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.004
Stouffer's		Power	---		Power-50%		---	P-value		0.054	Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.001
506C/506	3	11	4.11	1.21	10	3.88	1.69	-	+	0.616	11	52.05	10.19	10	56.39	12.25	-	-	0.804	11	12.85	3.78	10	28.63	10.80	-	-	0.352
1598C/1598	3	9	0.70	0.48	10	9.13	3.61	-	-	0.029	9	40.14	15.59	10	84.88	5.16	-	-	0.008	9	4.18	1.95	10	6.00	3.84	-	-	0.948
846C/846	3	8	9.55	2.54	9	8.91	2.79	-	+	0.842	8	57.66	12.26	9	70.86	9.68	-	-	0.488	8	32.83	13.40	9	6.81	5.18	-	+	0.066
1650C/1650	3	10	13.64	3.96	8	5.63	2.62	-	+	0.136	10	55.65	9.92	8	94.38	2.62	-	-	0.002	10	20.26	10.13	8	0.00	0.00	-	+	0.033
Habitat Means			7.00	2.05		6.88	2.68		+			51.40	12.00		76.65	7.45		-			17.55	7.33		10.35	4.95		+	
Fisher's		Power	0.157		Power-50%		0.883	P-value		0.302x	Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.033
Stouffer's		Power	0.027		Power-50%		0.908	P-value		0.946	Power	---		Power-50%		---	P-value		0.000	Power	0.316		Power-50%		0.742	P-value		0.168

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.37. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Coarse Textured. July 1991. Undisturbed. (Continued.)

		Annuals (A)								Ephemerals (AE)													
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P				
506C/506	1	12	0.00	0.00	11	1.03	0.69	-	-	0.168	12	0.00	0.00	11	0.00	0.00	-	o	1.000				
1598C/1598	1	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000				
846C/846	1	9	0.00	0.00	12	0.00	0.00	-	o	1.000	9	0.00	0.00	12	0.00	0.00	-	o	1.000				
1650C/1650	1	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000				
Habitat Means			0.00	0.00		0.25	0.17		-			0.00	0.00		0.00	0.00		o					
Fisher's		Power	0.005		Power-50%		---	P-value		0.333	Power	---		Power-50%		---	P-value		0.698	Power	---	Power-50%	--- P-value
Stouffer's		Power	0.000		Power-50%		---	P-value		0.497	Power	---		Power-50%		---	P-value		0.500	Power	---	Power-50%	--- P-value
506C/506	2	11	0.35	0.35	11	3.07	1.52	-	-	0.074	11	0.00	0.00	11	0.00	0.00	-	o	1.000				
1598C/1598	2	9	9.46	6.72	10	0.00	0.00	-	+	0.125	9	9.46	6.72	10	0.00	0.00	-	+	0.125				
846C/846	2	8	0.16	0.16	11	0.00	0.00	-	+	0.351	8	0.00	0.00	11	0.00	0.00	-	o	1.000				
1650C/1650	2	12	2.09	0.93	7	0.00	0.00	-	+	0.024	12	0.73	0.55	7	0.00	0.00	-	+	0.178				
Habitat Means			3.05	2.05		0.78	0.38		+			2.55	1.82		0.00	0.00		+					
Fisher's		Power	---		Power-50%		---	P-value		0.021x	Power	0.088		Power-50%		0.063	P-value		0.107	Power	---	Power-50%	--- P-value
Stouffer's		Power	---		Power-50%		---	P-value		0.013	Power	---		Power-50%		---	P-value		0.040	Power	---	Power-50%	--- P-value
506C/506	3	11	30.80	9.79	10	11.14	5.72	-	+	0.127	11	28.07	9.54	10	9.76	5.85	-	+	0.109				
1598C/1598	3	9	55.01	15.89	10	0.00	0.00	-	+	0.007	9	55.01	15.89	10	0.00	0.00	-	+	0.007				
846C/846	3	8	0.00	0.00	9	12.09	9.56	-	-	0.160	8	0.00	0.00	9	11.12	9.60	-	-	0.191				
1650C/1650	3	10	10.51	6.60	8	0.00	0.00	-	+	0.027	10	9.26	6.73	8	0.00	0.00	-	-	0.077				
Habitat Means			24.08	8.08		5.80	3.83		+			23.10	8.03		5.23	3.87		+					
Fisher's		Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.003	Power	---	Power-50%	--- P-value
Stouffer's		Power	---		Power-50%		---	P-value		0.004	Power	---		Power-50%		---	P-value		0.005	Power	---	Power-50%	--- P-value

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.38. Algal Percent Cover. Chlorophyta. Prince William Sound. Coarse Textured. July 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

Site Pair	Mvd	Total Chlorophyta N	C	SE	N	O	SE	CV	D	P	Morphological Group: Bladed Greens N	C	SE	N	O	SE	CV	D	P	Bladed Greens (AE) (a) N	C	SE	N	O	SE	CV	D	P
506C/506	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
1598C/1598	1	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	1	9	0.00	0.00	12	0.00	0.00	-	o	1.000	9	0.00	0.00	12	0.00	0.00	-	o	1.000	9	0.00	0.00	12	0.00	0.00	-	o	1.000
1650C/1650	1	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50%	---	P-value			0.698	Power ---			Power-50%	---	P-value			0.698	Power ---			Power-50%	---	P-value			0.698
Stouffer's		Power ---			Power-50%	---	P-value			0.500	Power ---			Power-50%	---	P-value			0.500	Power ---			Power-50%	---	P-value			0.500
506C/506	2	11	0.00	0.00	11	0.00	0.00	-	o	1.000	11	0.00	0.00	11	0.00	0.00	-	o	1.000	11	0.00	0.00	11	0.00	0.00	-	o	1.000
1598C/1598	2	9	2.64	1.82	10	0.00	0.00	-	+	0.174	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	2	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000
1650C/1650	2	12	0.00	0.00	7	0.00	0.00	-	o	1.000	12	0.00	0.00	7	0.00	0.00	-	o	1.000	12	0.00	0.00	7	0.00	0.00	-	o	1.000
Habitat Means			0.65	0.45		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power 0.001			Power-50%	0.003	P-value			0.338	Power ---			Power-50%	---	P-value			0.698	Power ---			Power-50%	---	P-value			0.698
Stouffer's		Power 0.000			Power-50%	0.000	P-value			0.103	Power ---			Power-50%	---	P-value			0.500	Power ---			Power-50%	---	P-value			0.500
506C/506	3	11	13.30	5.79	10	10.01	5.82	-	+	0.757	11	0.00	0.00	10	1.13	0.76	-	-	0.107	11	0.00	0.00	10	1.13	0.76	-	-	0.107
1598C/1598	3	9	1.39	1.11	10	0.00	0.00	-	-	0.196	9	1.11	1.11	10	0.00	0.00	-	+	0.347	9	1.11	1.11	10	0.00	0.00	-	-	0.347
846C/846	3	8	0.00	0.00	9	0.42	0.42	-	-	0.347	8	0.00	0.00	9	0.00	0.00	-	o	1.000	8	0.00	0.00	9	0.00	0.00	-	o	1.000
1650C/1650	3	10	6.75	6.48	8	0.00	0.00	-	-	0.270	10	3.38	3.38	8	0.00	0.00	-	+	0.343	10	3.38	3.38	8	0.00	0.00	-	-	0.343
Habitat Means			5.37	3.35		2.60	1.55		+			1.13	1.13		0.27	0.20		+			1.13	1.13		0.27	0.20		+	
Fisher's		Power 0.065			Power-50%	0.128	P-value			0.203	Power 0.000			Power-50%	---	P-value			0.384	Power 0.000			Power-50%	---	P-value			0.384
Stouffer's		Power 0.106			Power-50%	0.327	P-value			0.113	Power 0.000			Power-50%	---	P-value			0.136	Power 0.000			Power-50%	---	P-value			0.136

(a) Kornmannia, Monostroma, Ulva and Ulvaria.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Morphological Group: Fine Filamentous Greens N	C	SE	N	O	SE	CV	D	P	Acrosiphonia sp. (A) N	C	SE	N	O	SE	CV	D	P	Chaetomorpha/Rhizoclonium (A) (a) N	C	SE	N	O	SE	CV	D	P
506C/506	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
1598C/1598	1	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	1	9	0.00	0.00	12	0.00	0.00	-	o	1.000	9	0.00	0.00	12	0.00	0.00	-	o	1.000	9	0.00	0.00	12	0.00	0.00	-	o	1.000
1650C/1650	1	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50%	---	P-value			0.698	Power ---			Power-50%	---	P-value			0.698	Power ---			Power-50%	---	P-value			0.698
Stouffer's		Power ---			Power-50%	---	P-value			0.500	Power ---			Power-50%	---	P-value			0.500	Power ---			Power-50%	---	P-value			0.500
506C/506	2	11	0.00	0.00	11	0.00	0.00	-	o	1.000	11	0.00	0.00	11	0.00	0.00	-	o	1.000	11	0.00	0.00	11	0.00	0.00	-	o	1.000
1598C/1598	2	9	2.64	1.82	10	0.00	0.00	-	-	0.174	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	2	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000
1650C/1650	2	12	0.00	0.00	7	0.00	0.00	-	o	1.000	12	0.00	0.00	7	0.00	0.00	-	o	1.000	12	0.00	0.00	7	0.00	0.00	-	o	1.000
Habitat Means			0.65	0.45		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power 0.002			Power-50%	0.002	P-value			0.338	Power ---			Power-50%	---	P-value			0.698	Power ---			Power-50%	---	P-value			0.698
Stouffer's		Power 0.000			Power-50%	0.000	P-value			0.103	Power ---			Power-50%	---	P-value			0.500	Power ---			Power-50%	---	P-value			0.500
506C/506	3	11	13.07	5.84	10	8.51	5.83	-	+	0.639	11	0.00	0.00	10	0.25	0.25	-	-	0.343	11	0.00	0.00	10	0.00	0.00	-	o	1.000
1598C/1598	3	9	0.28	0.28	10	0.00	0.00	-	+	0.347	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	3	8	0.00	0.00	9	0.42	0.42	-	-	0.347	8	0.00	0.00	9	0.00	0.00	-	o	1.000	8	0.00	0.00	9	0.00	0.00	-	o	1.000
1650C/1650	3	10	3.38	3.11	8	0.00	0.00	-	+	0.240	10	0.00	0.00	8	0.00	0.00	-	o	1.000	10	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			4.20	2.30		2.23	1.55		+			0.00	0.00		0.08	0.08		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power 0.060			Power-50%	0.133	P-value			0.237	Power ---			Power-50%	---	P-value			0.465	Power ---			Power-50%	---	P-value			0.698
Stouffer's		Power 0.086			Power-50%	0.262	P-value			0.183	Power ---			Power-50%	---	P-value			0.498	Power ---			Power-50%	---	P-value			0.500

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.38. Algal Percent Cover. Chlorophyta. Prince William Sound. Coarse Textured. July 1991. Undisturbed. (Continued.)

Site Pair	Mvd	Cladophora sp. (AE) N	C	SE	N	O	SE	CV	D	P	Ulothrix sp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Tubular and Saccate Greens N	C	SE	N	O	SE	CV	D	P
506C/506	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
1598C/1598	1	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	1	9	0.00	0.00	12	0.00	0.00	-	o	1.000	9	0.00	0.00	12	0.00	0.00	-	o	1.000	9	0.00	0.00	12	0.00	0.00	-	o	1.000
1650C/1650	1	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	11	0.00	0.00	11	0.00	0.00	-	o	1.000	11	0.00	0.00	11	0.00	0.00	-	o	1.000	11	0.00	0.00	11	0.00	0.00	-	o	1.000
1598C/1598	2	9	2.64	1.82	10	0.00	0.00	-	+	0.174	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	2	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000
1650C/1650	2	12	0.00	0.00	7	0.00	0.00	-	o	1.000	12	0.00	0.00	7	0.00	0.00	-	o	1.000	12	0.00	0.00	7	0.00	0.00	-	o	1.000
Habitat Means			0.65	0.45		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.002		Power-50%		0.005	P-value		0.338	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.103	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	11	13.07	5.84	10	8.26	5.86	-	+	0.561	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.23	0.23	10	0.38	0.27	-	-	0.586
1598C/1598	3	9	0.28	0.28	10	0.00	0.00	-	+	0.347	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	3	8	0.00	0.00	9	0.42	0.42	-	-	0.347	8	0.00	0.00	9	0.00	0.00	-	o	1.000	8	0.00	0.00	9	0.00	0.00	-	o	1.000
1650C/1650	3	10	3.38	3.11	8	0.00	0.00	-	+	0.240	10	0.00	0.00	8	0.00	0.00	-	o	1.000	10	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			4.20	2.30		2.17	1.57		+			0.00	0.00		0.00	0.00		o			0.05	0.05		0.10	0.08		-	
Fisher's		Power	0.067		Power-50%		0.128	P-value		0.221	Power	---		Power-50%		---	P-value		0.698	Power	0.000		Power-50%		---	P-value		0.579
Stouffer's		Power	0.091		Power-50%		0.236	P-value		0.183	Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		---	P-value		0.499

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Blidingia/Enteromorpha (AE) (a) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000																		
1598C/1598	1	10	0.00	0.00	10	0.00	0.00	-	o	1.000																		
846C/846	1	9	0.00	0.00	12	0.00	0.00	-	o	1.000																		
1650C/1650	1	12	0.00	0.00	8	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
506C/506	2	11	0.00	0.00	11	0.00	0.00	-	o	1.000																		
1598C/1598	2	9	0.00	0.00	10	0.00	0.00	-	o	1.000																		
846C/846	2	8	0.00	0.00	11	0.00	0.00	-	o	1.000																		
1650C/1650	2	12	0.00	0.00	7	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
506C/506	3	11	0.23	0.23	10	0.38	0.27	-	-	0.586																		
1598C/1598	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000																		
846C/846	3	8	0.00	0.00	9	0.00	0.00	-	o	1.000																		
1650C/1650	3	10	0.00	0.00	8	0.00	0.00	-	o	1.000																		
Habitat Means			0.05	0.05		0.10	0.08		-																			
Fisher's		Power	0.001		Power-50%		---	P-value		0.579	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.000		Power-50%		---	P-value		0.499	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.39. Algal Percent Cover. Phaeophyta. Prince William Sound. Coarse Textured. July 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta							Morphological Group: Bladed Browns								Fucus cottonii (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	12	12.08	6.56	11	1.94	1.34	-	+	0.301	12	12.08	6.56	11	1.94	1.34	-	+	0.301	12	0.00	0.00	11	0.00	0.00	-	o	1.000
1598C/1598	1	10	10.51	7.09	10	0.75	0.53	-	+	0.197	10	10.51	7.09	10	0.75	0.53	-	+	0.197	10	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	1	9	10.84	4.99	12	0.73	0.62	-	+	0.057	9	10.84	4.99	12	0.73	0.62	-	+	0.057	9	2.22	2.22	12	0.00	0.00	-	+	0.347
1650C/1650	1	12	2.08	1.47	8	0.00	0.00	-	-	0.114	12	2.08	1.47	8	0.00	0.00	-	+	0.114	12	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			8.88	5.05		0.85	0.60		+			8.88	5.05		0.85	0.60		+			0.55	0.55		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.007	Power	---		Power-50%		---	P-value		0.007	Power	---		Power-50%		---	P-value		0.467
Stouffer's		Power	---		Power-50%		---	P-value		0.017	Power	---		Power-50%		---	P-value		0.017	Power	---		Power-50%		---	P-value		0.398
506C/506	2	11	11.48	7.32	11	13.53	6.15	-	-	0.623	11	11.48	7.32	11	13.53	6.15	-	-	0.623	11	0.00	0.00	11	0.00	0.00	-	o	1.000
1598C/1598	2	9	14.46	7.25	10	0.13	0.13	-	+	0.016	9	7.66	2.10	10	0.13	0.13	-	+	0.003	9	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	2	8	1.56	1.24	11	5.69	4.43	-	-	0.560	8	1.56	1.24	11	5.69	4.43	-	-	0.560	8	0.00	0.00	11	0.00	0.00	-	o	1.000
1650C/1650	2	12	3.65	1.63	7	0.00	0.00	-	+	0.016	12	2.93	1.51	7	0.00	0.00	-	+	0.021	12	0.00	0.00	7	0.00	0.00	-	o	1.000
Habitat Means			7.83	4.35		4.82	2.67		+			5.93	3.02		4.82	2.67		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.008	Power	---		Power-50%		---	P-value		0.003	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.004	Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.500
506C/506	3	11	30.36	7.54	10	28.63	10.80	-	-	0.721	11	12.85	3.78	10	28.63	10.80	-	-	0.352	11	0.00	0.00	10	0.00	0.00	-	o	1.000
1598C/1598	3	9	57.78	15.49	10	6.00	3.84	-	+	0.006	9	4.18	1.95	10	6.00	3.84	-	-	0.948	9	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	3	8	32.83	13.40	9	18.48	10.00	-	+	0.361	8	32.83	13.40	9	6.81	5.18	-	+	0.066	8	0.00	0.00	9	0.00	0.00	-	o	1.000
1650C/1650	3	10	9.39	4.09	8	0.00	0.00	-	+	0.016	10	6.76	2.91	8	0.00	0.00	-	+	0.024	10	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			32.60	10.13		13.27	6.15		+			14.18	5.53		10.35	4.95		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.027	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.000	Power	0.293		Power-50%		0.822	P-value		0.161	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Fucus gardneri (P)							Adult Fucus gardneri (P) (> 2cm)								Juvenile Fucus gardneri (P) (<= 2cm)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	12	12.08	6.56	11	1.94	1.34	-	+	0.301	12	12.08	6.56	11	1.25	0.69	-	+	0.250	12	0.00	0.00	11	0.68	0.68	-	-	0.341
1598C/1598	1	10	10.51	7.09	10	0.75	0.53	-	+	0.197	10	10.51	7.09	10	0.75	0.53	-	+	0.197	10	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	1	9	8.62	4.98	12	0.73	0.62	-	+	0.132	9	8.62	4.98	12	0.73	0.62	-	+	0.132	9	0.00	0.00	12	0.00	0.00	-	o	1.000
1650C/1650	1	12	2.08	1.47	8	0.00	0.00	-	+	0.114	12	2.08	1.47	8	0.00	0.00	-	+	0.114	12	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			8.33	5.05		0.85	0.60		+			8.33	5.05		0.70	0.45		+			0.00	0.00		0.17	0.17		-	
Fisher's		Power	---		Power-50%		---	P-value		0.012	Power	---		Power-50%		---	P-value		0.011	Power	---		Power-50%		---	P-value		0.464
Stouffer's		Power	---		Power-50%		---	P-value		0.023	Power	---		Power-50%		---	P-value		0.023	Power	---		Power-50%		---	P-value		0.498
506C/506	2	11	11.48	7.32	11	13.53	6.15	-	-	0.623	11	11.48	7.32	11	13.53	6.15	-	-	0.623	11	0.00	0.00	11	0.00	0.00	-	o	1.000
1598C/1598	2	9	7.66	2.10	10	0.13	0.13	-	+	0.003	9	7.66	2.10	10	0.13	0.13	-	+	0.003	9	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	2	8	1.56	1.24	11	5.69	4.43	-	-	0.560	8	1.56	1.24	11	5.69	4.43	-	-	0.560	8	0.00	0.00	11	0.00	0.00	-	o	1.000
1650C/1650	2	12	2.93	1.51	7	0.00	0.00	-	-	0.021	12	2.93	1.51	7	0.00	0.00	-	+	0.021	12	0.00	0.00	7	0.00	0.00	-	o	1.000
Habitat Means			5.93	3.02		4.82	2.67		-			5.93	3.02		4.82	2.67		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.003	Power	---		Power-50%		---	P-value		0.003	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.500
506C/506	3	11	12.85	3.78	10	28.63	10.80	-	-	0.352	11	12.85	3.78	10	28.63	10.80	-	-	0.352	11	0.00	0.00	10	0.00	0.00	-	o	1.000
1598C/1598	3	9	4.18	1.95	10	6.00	3.84	-	-	0.948	9	4.18	1.95	10	6.00	3.84	-	-	0.948	9	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	3	8	32.83	13.40	9	6.81	5.18	-	+	0.066	8	32.83	13.40	9	6.81	5.18	-	+	0.066	8	0.00	0.00	9	0.00	0.00	-	o	1.000
1650C/1650	3	10	6.76	2.91	8	0.00	0.00	-	+	0.024	10	6.51	2.80	8	0.00	0.00	-	-	0.023	10	0.25	0.25	8	0.00	0.00	-	+	0.343
Habitat Means			14.18	5.53		10.35	4.95		+			14.10	5.50		10.35	4.95		-			0.08	0.08		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.027	Power	---		Power-50%		---	P-value		0.026	Power	---		Power-50%		---	P-value		0.465
Stouffer's		Power	0.296		Power-50%		0.841	P-value		0.161	Power	0.302		Power-50%		0.830	P-value		0.160	Power	---		Power-50%		---	P-value		0.409

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.39. Algal Percent Cover. Phaeophyta. Prince William Sound. Coarse Textured. July 1991. Undisturbed. (Continued.)

		Fucus Stipes (P) (a)								Morphological Group: Coarse Filamentous Browns								Dictyosiphon sp. (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
1598C/1598	1	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	1	9	0.00	0.00	12	0.00	0.00	-	o	1.000	9	0.00	0.00	12	0.00	0.00	-	o	1.000	9	0.00	0.00	12	0.00	0.00	-	o	1.000
1650C/1650	1	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	11	0.00	0.00	11	0.00	0.00	-	o	1.000	11	0.00	0.00	11	0.00	0.00	-	o	1.000	11	0.00	0.00	11	0.00	0.00	-	o	1.000
1598C/1598	2	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	2	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000
1650C/1650	2	12	0.00	0.00	7	0.00	0.00	-	o	1.000	12	0.00	0.00	7	0.00	0.00	-	o	1.000	12	0.00	0.00	7	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	11	0.23	0.23	10	0.00	0.00	-	+	0.341	11	2.73	2.49	10	0.00	0.00	-	+	0.232	11	0.00	0.00	10	0.00	0.00	-	o	1.000
1598C/1598	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	3	8	0.00	0.00	9	0.00	0.00	-	o	1.000	8	0.00	0.00	9	0.98	0.98	-	-	0.347	8	0.00	0.00	9	0.98	0.98	-	-	0.347
1650C/1650	3	10	0.00	0.00	8	0.00	0.00	-	o	1.000	10	0.13	0.13	8	0.00	0.00	-	+	0.343	10	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			0.05	0.05		0.00	0.00		+			0.70	0.65		0.25	0.25		+			0.00	0.00		0.25	0.25		-	
Fisher's	Power		---		Power-50%		---	P-value		0.464	Power	0.000		Power-50%		0.000	P-value		0.295	Power	---		Power-50%		---	P-value		0.467
Stouffer's	Power		---		Power-50%		---	P-value		0.498	Power	0.000		Power-50%		0.000	P-value		0.510	Power	---		Power-50%		---	P-value		0.398

(a) Dead Fucus plants or stipes without blades.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Myelophycus/Scytosiphon (A) (a)								Morphological Group: Fine Filamentous Browns								Fine Filamentous Browns (AE) (b)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
1598C/1598	1	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	1	9	0.00	0.00	12	0.00	0.00	-	o	1.000	9	0.00	0.00	12	0.00	0.00	-	o	1.000	9	0.00	0.00	12	0.00	0.00	-	o	1.000
1650C/1650	1	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	11	0.00	0.00	11	0.00	0.00	-	o	1.000	11	0.00	0.00	11	0.00	0.00	-	o	1.000	11	0.00	0.00	11	0.00	0.00	-	o	1.000
1598C/1598	2	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	6.81	6.81	10	0.00	0.00	-	+	0.347	9	6.81	6.81	10	0.00	0.00	-	-	0.347
846C/846	2	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000
1650C/1650	2	12	0.00	0.00	7	0.00	0.00	-	o	1.000	12	0.73	0.55	7	0.00	0.00	-	+	0.178	12	0.73	0.55	7	0.00	0.00	-	-	0.178
Habitat Means			0.00	0.00		0.00	0.00		o			1.87	1.85		0.00	0.00		+			1.87	1.85		0.00	0.00		+	
Fisher's	Power		---		Power-50%		---	P-value		0.698	Power	0.011		Power-50%		0.008	P-value		0.195	Power	0.011		Power-50%		0.009	P-value		0.195
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	0.011		Power-50%		0.008	P-value		0.115	Power	0.010		Power-50%		0.006	P-value		0.115
506C/506	3	11	0.23	0.23	10	0.00	0.00	-	+	0.341	11	14.78	5.05	10	0.00	0.00	-	+	0.009	11	14.78	5.05	10	0.00	0.00	-	+	0.009
1598C/1598	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	53.62	15.50	10	0.00	0.00	-	+	0.008	9	53.62	15.50	10	0.00	0.00	-	+	0.008
846C/846	3	8	0.00	0.00	9	0.00	0.00	-	o	1.000	8	0.00	0.00	9	10.70	9.65	-	-	0.247	8	0.00	0.00	9	10.70	9.65	-	-	0.247
1650C/1650	3	10	0.13	0.13	8	0.00	0.00	-	+	0.343	10	2.51	1.28	8	0.00	0.00	-	+	0.047	10	2.51	1.28	8	0.00	0.00	-	+	0.047
Habitat Means			0.08	0.08		0.00	0.00		+			17.72	5.47		2.67	2.42		+			17.72	5.47		2.67	2.42		+	
Fisher's	Power		---		Power-50%		---	P-value		0.277	Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.000
Stouffer's	Power		---		Power-50%		---	P-value		0.407	Power	---		Power-50%		---	P-value		0.004	Power	---		Power-50%		---	P-value		0.004

(a) Genera not separated.

(b) Elachista, Ectocarpus and Pilayella.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.40. Algal Percent Cover. Rhodophyta. Prince William Sound. Coarse Textured. July 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group: Bladed Reds								Palmaria spp. (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	12	0.00	0.00	11	1.03	0.69	-	-	0.168	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
1598C/1598	1	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	1	9	0.00	0.00	12	0.00	0.00	-	o	1.000	9	0.00	0.00	12	0.00	0.00	-	o	1.000	9	0.00	0.00	12	0.00	0.00	-	o	1.000
1650C/1650	1	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.25	0.17		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.005		Power-50%		---	P-value		0.333	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.000		Power-50%		---	P-value		0.497	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	11	0.35	0.35	11	3.30	1.53	-	-	0.063	11	0.00	0.00	11	0.00	0.00	-	o	1.000	11	0.00	0.00	11	0.00	0.00	-	o	1.000
1598C/1598	2	9	22.64	12.29	10	0.00	0.00	-	+	0.094	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	2	8	0.16	0.16	11	0.00	0.00	-	+	0.351	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000
1650C/1650	2	12	1.36	0.86	7	0.00	0.00	-	+	0.099	12	0.00	0.00	7	0.00	0.00	-	o	1.000	12	0.00	0.00	7	0.00	0.00	-	o	1.000
Habitat Means			6.15	3.45		0.83	0.38		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.047x	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.014	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	11	0.00	0.00	10	1.13	0.99	-	-	0.218	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
1598C/1598	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	3	8	0.00	0.00	9	0.00	0.00	-	o	1.000	8	0.00	0.00	9	0.00	0.00	-	o	1.000	8	0.00	0.00	9	0.00	0.00	-	o	1.000
1650C/1650	3	10	14.63	9.81	8	0.00	0.00	-	-	0.112	10	0.00	0.00	8	0.00	0.00	-	o	1.000	10	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			3.65	2.45		0.27	0.25		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.362	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.352	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Coarse Filamentous Reds								Cryptosiphonia woodii (A)								Gloiopeltis furcata (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	12	0.00	0.00	11	1.03	0.69	-	-	0.168	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	1.03	0.69	-	-	0.168
1598C/1598	1	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	1	9	0.00	0.00	12	0.00	0.00	-	o	1.000	9	0.00	0.00	12	0.00	0.00	-	o	1.000	9	0.00	0.00	12	0.00	0.00	-	o	1.000
1650C/1650	1	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.25	0.17		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.25	0.17		-	
Fisher's		Power	0.004		Power-50%		---	P-value		0.333	Power	---		Power-50%		---	P-value		0.698	Power	0.002		Power-50%		---	P-value		0.333
Stouffer's		Power	0.000		Power-50%		---	P-value		0.497	Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		---	P-value		0.497
506C/506	2	11	0.35	0.35	11	3.30	1.53	-	-	0.063	11	0.00	0.00	11	0.00	0.00	-	o	1.000	11	0.35	0.35	11	3.07	1.52	-	-	0.074
1598C/1598	2	9	22.64	12.29	10	0.00	0.00	-	+	0.094	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	2	8	0.16	0.16	11	0.00	0.00	-	+	0.351	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.16	0.16	11	0.00	0.00	-	-	0.351
1650C/1650	2	12	1.36	0.86	7	0.00	0.00	-	+	0.099	12	0.00	0.00	7	0.00	0.00	-	o	1.000	12	1.36	0.86	7	0.00	0.00	-	-	0.099
Habitat Means			6.15	3.45		0.83	0.38		+			0.00	0.00		0.00	0.00		o			0.50	0.38		0.78	0.38		·	
Fisher's		Power	---		Power-50%		---	P-value		0.047x	Power	---		Power-50%		---	P-value		0.698	Power	0.012		Power-50%		0.112	P-value		0.204xy
Stouffer's		Power	---		Power-50%		---	P-value		0.014	Power	---		Power-50%		---	P-value		0.500	Power	0.006		Power-50%		0.192	P-value		0.258
506C/506	3	11	0.00	0.00	10	1.13	0.99	-	-	0.218	11	0.00	0.00	10	0.13	0.13	-	-	0.343	11	0.00	0.00	10	1.00	1.00	-	-	0.343
1598C/1598	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	3	8	0.00	0.00	9	0.00	0.00	-	o	1.000	8	0.00	0.00	9	0.00	0.00	-	o	1.000	8	0.00	0.00	9	0.00	0.00	-	o	1.000
1650C/1650	3	10	14.63	9.81	8	0.00	0.00	-	+	0.112	10	0.13	0.13	8	0.00	0.00	-	+	0.343	10	1.00	0.76	8	0.00	0.00	-	-	0.185
Habitat Means			3.65	2.45		0.27	0.25		+			0.02	0.02		0.02	0.02		-			0.25	0.20		0.25	0.25		-	
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.362	Power	---		Power-50%		---	P-value		0.572 y	Power	0.000		Power-50%		0.000	P-value		0.442 y
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.352	Power	---		Power-50%		---	P-value		0.589	Power	0.000		Power-50%		0.000	P-value		0.376

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.40. Algal Percent Cover. Rhodophyta. Prince William Sound. Coarse Textured. July 1991. Undisturbed. (Continued.)

		Neorhodomela/Rhodomela (P) (a)									Odonthalia floccosa (P)									Morphological Group: Saccate Reds								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
1598C/1598	1	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	1	9	0.00	0.00	12	0.00	0.00	-	o	1.000	9	0.00	0.00	12	0.00	0.00	-	o	1.000	9	0.00	0.00	12	0.00	0.00	-	o	1.000
1650C/1650	1	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	11	0.00	0.00	11	0.00	0.00	-	o	1.000	11	0.00	0.00	11	0.23	0.23	-	-	0.341	11	0.00	0.00	11	0.00	0.00	-	o	1.000
1598C/1598	2	9	4.03	4.03	10	0.00	0.00	-	+	0.347	9	18.61	12.40	10	0.00	0.00	-	+	0.172	9	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	2	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000
1650C/1650	2	12	0.00	0.00	7	0.00	0.00	-	o	1.000	12	0.00	0.00	7	0.00	0.00	-	o	1.000	12	0.00	0.00	7	0.00	0.00	-	o	1.000
Habitat Means			1.00	1.00		0.00	0.00		-			4.65	3.10		0.05	0.05		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.467	Power	0.003		Power-50%		0.002	P-value		0.428	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.191	Power	0.000		Power-50%		0.000	P-value		0.103	Power	---		Power-50%		---	P-value		0.500
506C/506	3	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
1598C/1598	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	3	8	0.00	0.00	9	0.00	0.00	-	o	1.000	8	0.00	0.00	9	0.00	0.00	-	o	1.000	8	0.00	0.00	9	0.00	0.00	-	o	1.000
1650C/1650	3	10	0.00	0.00	8	0.00	0.00	-	o	1.000	10	13.50	9.89	8	0.00	0.00	-	+	0.192	10	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			3.37	2.48		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	0.001		Power-50%		0.000	P-value		0.356	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.000	P-value		0.376	Power	---		Power-50%		---	P-value		0.500

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Halosaccion glandiforme (A)									Morphological Group: Fine Filamentous Reds									Polysiphonia/Pterosiphonia (A) (a)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
1598C/1598	1	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	1	9	0.00	0.00	12	0.00	0.00	-	o	1.000	9	0.00	0.00	12	0.00	0.00	-	o	1.000	9	0.00	0.00	12	0.00	0.00	-	o	1.000
1650C/1650	1	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	11	0.00	0.00	11	0.00	0.00	-	o	1.000	11	0.00	0.00	11	0.00	0.00	-	o	1.000	11	0.00	0.00	11	0.00	0.00	-	o	1.000
1598C/1598	2	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	2	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000
1650C/1650	2	12	0.00	0.00	7	0.00	0.00	-	o	1.000	12	0.00	0.00	7	0.00	0.00	-	o	1.000	12	0.00	0.00	7	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
1598C/1598	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	3	8	0.00	0.00	9	0.00	0.00	-	o	1.000	8	0.00	0.00	9	0.00	0.00	-	o	1.000	8	0.00	0.00	9	0.00	0.00	-	o	1.000
1650C/1650	3	10	0.00	0.00	8	0.00	0.00	-	o	1.000	10	0.00	0.00	8	0.00	0.00	-	o	1.000	10	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.41. Algal Percent Cover. Invertebrates. Prince William Sound. Coarse Textured. July 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

Site Pair	MVD	Balanomorpha N	C	SE	N	O	SE	CV	D	P	Lottiidae N	C	SE	N	O	SE	CV	D	P	Mytilus N	C	SE	N	O	SE	CV	D	P
506C/506	1	12	0.11	0.11	11	4.21	2.29	-	+	0.077	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
1598C/1598	1	10	6.63	4.39	10	4.00	2.18	-	+	0.583	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	1.00	1.00	-	-	0.343
846C/846	1	9	0.14	0.14	12	1.15	0.56	-	-	0.168	9	0.00	0.00	12	0.00	0.00	-	o	1.000	9	0.00	0.00	12	0.00	0.00	-	o	1.000
1650C/1650	1	12	2.09	1.58	8	0.00	0.00	-	+	0.131	12	0.11	0.11	8	0.00	0.00	-	+	0.339	12	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			2.22	1.55		2.35	1.28		-			0.02	0.02		0.00	0.00		+			0.00	0.00		0.25	0.25		-	
Fisher's		Power	0.216			Power-50%	0.305	P-value		0.138	Power	---			Power-50%	---	P-value		0.462	Power	---			Power-50%	---	P-value		0.465
Stouffer's		Power	0.107			Power-50%	0.408	P-value		0.687	Power	---			Power-50%	---	P-value		0.408	Power	---			Power-50%	---	P-value		0.189
506C/506	2	11	2.97	1.30	11	1.25	0.51	-	+	0.190	11	0.00	0.00	11	0.00	0.00	-	o	1.000	11	0.45	0.45	11	1.71	0.68	-	-	0.056
1598C/1598	2	9	9.18	4.62	10	4.13	2.32	-	+	0.280	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	1.94	1.66	10	0.38	0.38	-	-	0.389
846C/846	2	8	2.35	1.02	11	3.76	1.95	-	-	0.746	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	1.71	1.35	-	-	0.136
1650C/1650	2	12	16.68	3.96	7	0.54	0.37	-	+	0.000	12	0.00	0.00	7	0.36	0.36	-	-	0.356	12	0.00	0.00	7	0.00	0.00	-	o	1.000
Habitat Means			7.83	2.73		2.43	1.30		+			0.00	0.00		0.10	0.10		-			0.60	0.55		0.95	0.63		-	
Fisher's		Power	---			Power-50%	---	P-value		0.001	Power	---			Power-50%	---	P-value		0.472	Power	---			Power-50%	---	P-value		0.073
Stouffer's		Power	---			Power-50%	---	P-value		0.036	Power	---			Power-50%	---	P-value		0.411	Power	0.174			Power-50%	0.006	P-value		0.648
506C/506		11	3.99	1.19	10	2.01	1.19	-	+	0.130	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.12	0.12	10	1.88	1.48	-	-	0.210
1598C/1598		9	0.70	0.48	10	8.38	3.13	-	-	0.027	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.75	0.53	-	-	0.175
846C/846		8	8.61	2.44	9	8.49	2.68	-	+	0.923	8	0.00	0.00	9	0.00	0.00	-	o	1.000	8	0.95	0.78	9	0.42	0.42	-	-	0.340
1650C/1650		10	13.64	3.96	8	5.31	2.43	-	+	0.122	10	0.00	0.00	8	0.00	0.00	-	o	1.000	10	0.00	0.00	8	0.31	0.31	-	-	0.351
Habitat Means			6.73	2.03		6.05	2.35		+			0.00	0.00		0.00	0.00		o			0.28	0.23		0.85	0.68		-	
Fisher's		Power	0.306			Power-50%	0.877	P-value		0.125x	Power	---			Power-50%	---	P-value		0.698	Power	---			Power-50%	---	P-value		0.096
Stouffer's		Power	0.072			Power-50%	0.907	P-value		0.950	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.093

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	MVD	Littorinidae N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000																		
1598C/1598	1	10	0.00	0.00	10	0.00	0.00	-	o	1.000																		
846C/846	1	9	0.00	0.00	12	0.00	0.00	-	o	1.000																		
1650C/1650	1	12	0.00	0.00	8	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---			Power-50%	---	P-value		0.698	Power	---			Power-50%	---	P-value			Power	---			Power-50%	---	P-value		
Stouffer's		Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value			Power	---			Power-50%	---	P-value		
506C/506	2	11	0.00	0.00	11	0.00	0.00	-	o	1.000																		
1598C/1598	2	9	0.00	0.00	10	0.00	0.00	-	o	1.000																		
846C/846	2	8	0.00	0.00	11	0.00	0.00	-	o	1.000																		
1650C/1650	2	12	0.00	0.00	7	0.90	0.71	-	-	0.199																		
Habitat Means			0.00	0.00		0.23	0.17		-																			
Fisher's		Power	0.000			Power-50%	---	P-value		0.361	Power	---			Power-50%	---	P-value			Power	---			Power-50%	---	P-value		
Stouffer's		Power	0.000			Power-50%	---	P-value		0.378	Power	---			Power-50%	---	P-value			Power	---			Power-50%	---	P-value		
506C/506	3	11	0.00	0.00	10	0.00	0.00	-	o	1.000																		
1598C/1598	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000																		
846C/846	3	8	0.00	0.00	9	0.00	0.00	-	o	1.000																		
1650C/1650	3	10	0.00	0.00	8	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---			Power-50%	---	P-value		0.698	Power	---			Power-50%	---	P-value			Power	---			Power-50%	---	P-value		
Stouffer's		Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value			Power	---			Power-50%	---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.42. Algal Percent Cover. Substrates. Prince William Sound. Coarse Textured. July 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Rock								Oiled Rock								Mud							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	12	85.95	6.35	11	92.85	3.85	-	-	0.464	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
1598C/1598	1	10	82.89	7.78	10	94.25	3.29	-	-	0.167	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	1	9	57.64	11.25	12	96.78	1.39	-	-	0.008	9	0.00	0.00	12	0.00	0.00	-	o	1.000	9	0.00	0.00	12	0.00	0.00	-	o	1.000
1650C/1650	1	12	95.73	2.35	8	100.00	0.00	-	-	0.058	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			80.55	6.97		96.00	2.15		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.007	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	11	84.78	7.33	11	80.24	5.95	-	+	0.417	11	0.00	0.00	11	0.00	0.00	-	o	1.000	11	0.00	0.00	11	0.00	0.00	-	o	1.000
1598C/1598	2	9	49.17	13.34	10	95.38	2.73	-	-	0.005	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	2	8	80.95	11.75	11	88.87	5.23	-	-	0.326	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000
1650C/1650	2	12	78.34	5.05	7	98.23	1.39	-	-	0.001	12	0.00	0.00	7	0.00	0.00	-	o	1.000	12	0.00	0.00	7	0.00	0.00	-	o	1.000
Habitat Means			73.33	9.38		90.68	3.83		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	11	52.05	10.19	10	56.39	12.25	-	-	0.804	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
1598C/1598	3	9	40.14	15.59	10	84.88	5.16	-	-	0.008	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	3	8	57.66	12.26	9	70.86	9.68	-	-	0.488	8	0.00	0.00	9	0.00	0.00	-	o	1.000	8	0.00	0.00	9	0.00	0.00	-	o	1.000
1650C/1650	3	10	55.65	9.92	8	94.38	2.62	-	-	0.002	10	0.00	0.00	8	0.00	0.00	-	o	1.000	10	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			51.40	12.00		76.65	7.45		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Sand								Shell Fragments								Water							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	12	0.00	0.00	11	0.00	0.00	~	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
1598C/1598	1	10	0.00	0.00	10	0.00	0.00	~	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	1	9	11.11	11.11	12	0.00	0.00	~	+	0.347	9	0.14	0.14	12	0.00	0.00	-	+	0.347	9	0.00	0.00	12	0.00	0.00	-	o	1.000
1650C/1650	1	12	0.00	0.00	8	0.00	0.00	~	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			2.77	2.77		0.00	0.00		+			0.02	0.02		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.467	Power	---		Power-50%		---	P-value		0.467	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.398	Power	---		Power-50%		---	P-value		0.398	Power	---		Power-50%		---	P-value		0.500
506C/506	2	11	0.00	0.00	11	0.00	0.00	~	o	1.000	11	0.00	0.00	11	0.00	0.00	-	o	1.000	11	0.00	0.00	11	0.00	0.00	-	o	1.000
1598C/1598	2	9	0.00	0.00	10	0.00	0.00	~	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	2	8	14.69	12.38	11	0.00	0.00	~	+	0.242	8	0.31	0.31	11	0.00	0.00	-	+	0.351	8	0.00	0.00	11	0.00	0.00	-	o	1.000
1650C/1650	2	12	0.00	0.00	7	0.00	0.00	~	o	1.000	12	0.00	0.00	7	0.00	0.00	-	o	1.000	12	0.00	0.00	7	0.00	0.00	-	o	1.000
Habitat Means			3.67	3.10		0.00	0.00		+			0.08	0.08		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.397	Power	---		Power-50%		---	P-value		0.469	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.374	Power	---		Power-50%		---	P-value		0.398	Power	---		Power-50%		---	P-value		0.500
506C/506	3	11	0.00	0.00	10	0.00	0.00	~	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
1598C/1598	3	9	0.00	0.00	10	0.00	0.00	~	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
846C/846	3	8	0.00	0.00	9	0.00	0.00	~	o	1.000	8	0.00	0.00	9	0.00	0.00	-	o	1.000	8	0.00	0.00	9	0.00	0.00	-	o	1.000
1650C/1650	3	10	0.00	0.00	8	0.00	0.00	~	o	1.000	10	0.00	0.00	8	0.00	0.00	-	o	1.000	10	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.42. Algal Percent Cover. Substrates. Prince William Sound. Coarse Textured. July 1991. Undisturbed. (Continued.)

		Zostera/Phyllospadix								Sand and Mud								Total Substrate							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	85.95	6.35	11	92.85	3.85	-	-	0.464
1598C/1598	1	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	0.00	0.00	10	0.00	0.00	-	o	1.000	10	82.89	7.78	10	94.25	3.29	-	-	0.167
846C/846	1	9	0.00	0.00	12	0.00	0.00	-	o	1.000	9	11.26	11.09	12	0.00	0.00	-	-	0.312	9	68.90	9.41	12	96.78	1.39	-	-	0.020
1650C/1650	1	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	95.73	2.35	8	100.00	0.00	-	-	0.058
Habitat Means			0.00	0.00		0.00	0.00		o			2.83	2.77		0.00	0.00		-			83.38	6.50		96.00	2.15		-	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	0.000		Power-50%		0.000	P-value		0.446	Power	---		Power-50%		---	P-value		0.002
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.000	P-value		0.390	Power	---		Power-50%		---	P-value		0.008
506C/506	2	11	0.00	0.00	11	0.00	0.00	-	o	1.000	11	0.00	0.00	11	0.00	0.00	-	o	1.000	11	84.78	7.33	11	80.24	5.95	-	+	0.417
1598C/1598	2	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	49.17	13.34	10	95.38	2.73	-	-	0.005
846C/846	*2*	*8*	*0.00*	*0.00*	*11*	*0.00*	*0.00*	-	o	*1.000*	*8*	*15.00*	*12.33*	*11*	*0.00*	*0.00*	-	+	*0.205*	*8*	*95.95*	*1.86*	*11*	*88.87*	*5.23*	-	+	*0.442*
1650C/1650	2	12	0.00	0.00	7	0.00	0.00	-	o	1.000	12	0.00	0.00	7	0.00	0.00	-	o	1.000	12	78.34	5.05	7	98.23	1.39	-	-	0.001
Habitat Means			0.00	0.00		0.00	0.00		o			3.75	3.08		0.00	0.00		+			77.07	6.90		90.68	3.83		-	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	0.000		Power-50%		0.000	P-value		0.367	Power	---		Power-50%		---	P-value		0.000
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.000	P-value		0.363	Power	---		Power-50%		---	P-value		0.001
506C/506	3	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	52.05	10.19	10	56.39	12.25	-	-	0.804
1598C/1598	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	40.14	15.59	10	84.88	5.16	-	-	0.008
846C/846	3	8	0.00	0.00	9	1.39	1.39	-	-	0.347	8	0.00	0.00	9	0.00	0.00	-	o	1.000	8	57.66	12.26	9	70.86	9.68	-	-	0.488
1650C/1650	3	10	0.00	0.00	8	0.00	0.00	-	o	1.000	10	0.00	0.00	8	0.00	0.00	-	o	1.000	10	55.65	9.92	8	94.38	2.62	-	-	0.002
Habitat Means			0.00	0.00		0.35	0.35		-			0.00	0.00		0.00	0.00		o			51.40	12.00		76.65	7.45		-	
Fisher's		Power	---		Power-50%		---	P-value		0.467	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.000
Stouffer's		Power	---		Power-50%		---	P-value		0.398	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.000

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.43. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Estuarine. June 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; - = control > oiled; + = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Algal Diversity Index (a)									Algal Taxa Richness (b)									Total Algae								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	8	0.11	0.06	4	0.00	0.00	-	+	0.110	8	1.50	0.57	4	0.25	0.25	-	+	0.167	8	15.33	4.73	4	0.63	0.63	-	+	0.039
2397C/20809	1	12	0.08	0.03	10	0.00	0.00	-	+	0.021	12	1.17	0.24	10	0.10	0.10	-	+	0.001	12	27.08	8.97	10	0.75	0.75	-	+	0.004
Habitat Means			0.10	0.05		0.00	0.00		+			1.33	0.40		0.18	0.18		+			21.20	6.85		0.70	0.70		+	
Fisher's		Power	---		Power-50%		---	P-value		0.005	Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.000
Stouffer's		Power	---		Power-50%		---	P-value		0.003	Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.000
P15.1C/P15.1	2	7	0.12	0.07	5	0.15	0.07	-	-	0.775	7	1.14	0.55	5	1.60	0.75	-	-	0.626	7	23.67	13.98	5	10.50	8.67	-	+	0.583
2397C/20809	2	9	0.12	0.06	12	0.09	0.05	-	+	0.787	9	1.89	0.54	12	1.08	0.38	-	+	0.222	9	65.62	9.62	12	18.19	8.34	-	+	0.001
Habitat Means			0.12	0.07		0.12	0.06		-			1.52	0.55		1.34	0.56		+			44.65	11.80		14.35	8.50		+	
Fisher's		Power	0.068		Power-50%		0.587	P-value		0.575	Power	0.296		Power-50%		0.997	P-value		0.273	Power	---		Power-50%		---	P-value		0.001
Stouffer's		Power	0.073		Power-50%		0.662	P-value		0.495	Power	0.190		Power-50%		0.993	P-value		0.302	Power	---		Power-50%		---	P-value		0.003
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	5	0.36	0.10	8	0.13	0.07	-	+	0.071	5	3.80	0.86	8	1.75	0.70	-	+	0.094	5	58.02	15.37	8	29.30	14.61	-	-	0.213
Habitat Means			0.36	0.10		0.13	0.07		+			3.80	0.86		1.75	0.70		+			58.00	15.40		29.30	14.60		-	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Modified Shannon Index.
(b) Taxa richness calculations are explained in the methods.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Invertebrates									Rock									Perennials (P)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	8	0.63	0.41	4	0.00	0.00	-	+	0.171	8	25.73	11.42	4	43.75	25.34	-	-	0.766	8	11.63	4.83	4	0.00	0.00	-	+	0.014
2397C/20809	1	12	7.25	6.41	10	0.00	0.00	-	+	0.174	12	65.06	9.39	10	97.88	1.09	-	-	0.001	12	24.48	8.31	10	0.75	0.75	-	+	0.004
Habitat Means			3.90	3.40		0.00	0.00		+			45.40	10.40		70.85	13.20		-			18.05	6.40		0.40	0.40		-	
Fisher's		Power	---		Power-50%		---	P-value		0.044	Power	---		Power-50%		---	P-value		0.002	Power	---		Power-50%		---	P-value		0.000
Stouffer's		Power	---		Power-50%		---	P-value		0.027	Power	---		Power-50%		---	P-value		0.005	Power	---		Power-50%		---	P-value		0.000
P15.1C/P15.1	2	7	0.44	0.35	5	0.12	0.12	-	+	0.569	7	15.19	14.15	5	40.52	17.64	-	-	0.306	7	3.04	2.47	5	0.26	0.26	-	+	0.413
2397C/20809	2	9	5.22	2.37	12	2.77	1.56	-	-	0.280	9	24.17	8.80	12	79.07	9.19	-	-	0.000	9	57.78	12.21	12	13.39	7.55	-	+	0.001
Habitat Means			2.80	1.40		1.45	0.85		+			19.70	11.50		59.80	13.40		-			30.40	7.35		6.85	3.75		+	
Fisher's		Power	0.234		Power-50%		0.424	P-value		0.168	Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.001
Stouffer's		Power	0.277		Power-50%		0.507	P-value		0.122	Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.002
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	5	10.52	3.28	8	1.80	0.64	-	+	0.007	5	26.50	15.10	8	68.38	15.36	-	-	0.116	5	5.00	2.62	8	9.30	4.69	-	-	0.872
Habitat Means			10.50	3.30		1.80	0.60		+			26.50	15.10		68.40	15.40		-			5.00	2.60		9.30	4.70		-	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.43. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Estuarine. June 1991. Undisturbed. (Continued.)

		Annuals (A)								Ephemerals (AE)																
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	8	3.70	3.70	4	0.63	0.63	-	+	0.771	8	3.70	3.70	4	0.63	0.63	-	+	0.771									
2397C/20809	1	12	2.61	1.14	10	0.00	0.00	-	+	0.025	12	2.61	1.14	10	0.00	0.00	-	+	0.025									
Habitat Means			3.15	2.40		0.30	0.30		+			3.15	2.40		0.30	0.30		+										
Fisher's	Power		---		Power-50%		---	P-value		0.031	Power		---		Power-50%		---	P-value		0.031	Power		---		Power-50%		---	P-value	
Stouffer's	Power		---		Power-50%		---	P-value		0.037	Power		---		Power-50%		---	P-value		0.037	Power		---		Power-50%		---	P-value	
P15.1C/P15.1	2	7	20.63	11.84	5	10.26	8.44	-	+	0.657	7	20.27	11.55	5	10.02	8.49	-	+	0.640									
2397C/20809	2	9	7.84	4.52	12	4.80	3.84	-	+	0.484	9	7.50	4.29	12	3.76	2.83	-	+	0.403									
Habitat Means			14.20	8.15		7.55	6.10		+			13.90	7.95		6.90	5.65		+										
Fisher's	Power		0.133		Power-50%		0.475	P-value		0.281	Power		0.158		Power-50%		0.439	P-value		0.241	Power		---		Power-50%		---	P-value	
Stouffer's	Power		0.190		Power-50%		0.553	P-value		0.210	Power		0.220		Power-50%		0.541	P-value		0.178	Power		---		Power-50%		---	P-value	
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
2397C/20809	3	5	53.02	14.80	8	20.01	11.43	-	+	0.114	5	47.26	14.82	8	19.06	11.26	-	+	0.135									
Habitat Means			53.00	14.80		20.00	11.40		+			47.30	14.80		19.10	11.30		+										
Fisher's	Power		---		Power-50%		---	P-value		---	z Power		---		Power-50%		---	P-value		---	Power		---		Power-50%		---	P-value	
Stouffer's	Power		---		Power-50%		---	P-value		---	Power		---		Power-50%		---	P-value		---	Power		---		Power-50%		---	P-value	

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.44. Algal Percent Cover. Chlorophyta. Prince William Sound. Estuarine. June 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group: Bladed Greens								Bladed Greens (AE) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	8	2.66	2.66	4	0.63	0.63	-	+	0.828	8	2.19	2.19	4	0.63	0.63	-	+	0.866	8	2.19	2.19	4	0.63	0.63	-	+	0.866
2397C/20809	1	12	0.94	0.56	10	0.00	0.00	-	+	0.096	12	0.94	0.56	10	0.00	0.00	-	+	0.096	12	0.94	0.56	10	0.00	0.00	-	+	0.096
Habitat Means			1.80	1.65		0.30	0.30		+			1.55	1.40		0.30	0.30		+			1.55	1.40		0.30	0.30		+	
Fisher's		Power	---		Power-50%		---	P-value		0.097	Power	0.176		Power-50%		0.188	P-value		0.101	Power	0.180		Power-50%		0.225	P-value		0.101
Stouffer's		Power	---		Power-50%		---	P-value		0.091	Power	---		Power-50%		---	P-value		0.097	Power	---		Power-50%		---	P-value		0.097
P15.1C/P15.1	2	7	17.86	11.37	5	1.00	0.61	-	+	0.217	7	17.86	11.37	5	0.12	0.12	-	+	0.142	7	17.86	11.37	5	0.12	0.12	-	+	0.142
2397C/20809	2	9	0.98	0.72	12	1.26	0.77	-	-	0.843	9	0.70	0.48	12	0.00	0.00	-	+	0.172	9	0.70	0.48	12	0.00	0.00	-	+	0.172
Habitat Means			9.45	6.05		1.15	0.70		-			9.30	5.95		0.05	0.05		-			9.30	5.95		0.05	0.05		-	
Fisher's		Power	0.104		Power-50%		0.286	P-value		0.237	Power	---		Power-50%		---	P-value		0.037	Power	---		Power-50%		---	P-value		0.037
Stouffer's		Power	0.134		Power-50%		0.416	P-value		0.232	Power	---		Power-50%		---	P-value		0.022	Power	---		Power-50%		---	P-value		0.022
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	5	20.26	7.08	8	0.94	0.66	-	+	0.004	5	14.76	5.34	8	0.63	0.63	-	-	0.004	5	14.76	5.34	8	0.63	0.63	-	-	0.004
Habitat Means			20.30	7.10		0.90	0.70		+			14.80	5.30		0.60	0.60		-			14.80	5.30		0.60	0.60		-	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Kornmannia, Monostroma, Ulva and Ulvaria.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Fine Filamentous Greens								Acrosiphonia sp. (A)								Chaetomorpha/Rhizoclonium (A) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	8	0.05	0.05	4	0.00	0.00	-	+	0.351	8	0.00	0.00	4	0.00	0.00	-	o	1.000	8	0.00	0.00	4	0.00	0.00	-	o	1.000
2397C/20809	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.05	0.05		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.301	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.255	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	2	7	0.00	0.00	5	0.88	0.55	-	-	0.179	7	0.00	0.00	5	0.00	0.00	-	o	1.000	7	0.00	0.00	5	0.00	0.00	-	o	1.000
2397C/20809	2	9	0.28	0.28	12	1.05	0.77	-	-	0.523	9	0.00	0.00	12	0.00	0.00	-	o	1.000	9	0.00	0.00	12	0.32	0.32	-	-	0.339
Habitat Means			0.15	0.15		1.00	0.70		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.15	0.15		-	
Fisher's		Power	0.286		Power-50%		---	P-value		0.111	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.294
Stouffer's		Power	---		Power-50%		---	P-value		0.081	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.249
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	5	5.50	4.90	8	0.00	0.00	-	+	0.250	5	0.00	0.00	8	0.00	0.00	-	o	1.000	5	0.26	0.26	8	0.00	0.00	-	-	0.374
Habitat Means			5.50	4.90		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.30	0.30		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.44. Algal Percent Cover. Chlorophyta. Prince William Sound. Estuarine. June 1991. Undisturbed. (Continued.)

		Cladophora sp. (AE)									Morphological Group: Tubular and Saccate Greens									Blidingia/Enteromorpha (AE) (a)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	8	0.05	0.05	4	0.00	0.00	-	+	0.351	8	0.41	0.41	4	0.00	0.00	-	+	0.351	8	0.41	0.41	4	0.00	0.00	-	+	0.351
2397C/20809	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.05	0.05		0.00	0.00		+			0.20	0.20		0.00	0.00		+			0.20	0.20		0.00	0.00		+	
Fisher's	Power		---		Power-50%		---	P-value		0.301	Power	---		Power-50%		---	P-value		0.301	Power	---		Power-50%		---	P-value		0.301
Stouffer's	Power		---		Power-50%		---	P-value		0.255	Power	---		Power-50%		---	P-value		0.255	Power	---		Power-50%		---	P-value		0.255
P15.1C/P15.1	2	7	0.00	0.00	5	0.88	0.55	-	-	0.179	7	0.00	0.00	5	0.00	0.00	-	o	1.000	7	0.00	0.00	5	0.00	0.00	-	o	1.000
2397C/20809	2	9	0.28	0.28	12	0.73	0.73	-	-	0.823	9	0.00	0.00	12	0.21	0.21	-	-	0.339	9	0.00	0.00	12	0.21	0.21	-	-	0.339
Habitat Means			0.15	0.15		0.80	0.65		-			0.00	0.00		0.10	0.10		-			0.00	0.00		0.10	0.10		-	
Fisher's	Power		0.215		Power-50%		---	P-value		0.159	Power	---		Power-50%		---	P-value		0.294	Power	---		Power-50%		---	P-value		0.294
Stouffer's	Power		0.236		Power-50%		---	P-value		0.134	Power	---		Power-50%		---	P-value		0.249	Power	---		Power-50%		---	P-value		0.249
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	5	5.26	4.94	8	0.00	0.00	-	+	0.277	5	0.00	0.00	8	0.31	0.31	-	-	0.351	5	0.00	0.00	8	0.31	0.31	-	-	0.351
Habitat Means			5.30	4.90		0.00	0.00		+			0.00	0.00		0.30	0.30		-			0.00	0.00		0.30	0.30		-	
Fisher's	Power		---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Genera not separated.
x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.45. Algal Percent Cover. Phaeophyta. Prince William Sound. Estuarine. June 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group: Bladed Browns								Fucus cottonii (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	8	12.67	4.28	4	0.00	0.00	-	+	0.006	8	11.63	4.53	4	0.00	0.00	-	+	0.014	8	2.04	1.53	4	0.00	0.00	-	+	0.129
2397C/20809	1	12	26.14	9.06	10	0.75	0.75	-	+	0.005	12	24.48	8.31	10	0.75	0.75	-	+	0.004	12	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			19.40	6.70		0.40	0.40		+			18.05	6.40		0.40	0.40		+			1.00	0.75		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.000	Power	0.029		Power-50%		0.021	P-value		0.143
Stouffer's		Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.000	Power	0.011		Power-50%		0.005	P-value		0.141
P15.1C/P15.1	2	7	5.81	3.13	5	9.50	8.27	-	-	0.748	7	3.04	2.47	5	0.26	0.26	-	+	0.413	7	0.00	0.00	5	0.00	0.00	-	o	1.000
2397C/20809	2	9	64.59	9.72	12	14.54	7.01	-	+	0.000	9	57.78	12.21	12	11.73	6.48	-	+	0.001	9	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			35.20	6.40		12.00	7.65		+			30.40	7.35		6.00	3.40		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.008	Power	---		Power-50%		---	P-value		0.002	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	5	37.02	11.32	8	26.80	13.65	-	+	0.426	5	4.50	2.78	8	8.20	4.23	-	-	0.756	5	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			37.00	11.30		26.80	13.70		+			4.50	2.80		8.20	4.20		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Fucus gardneri (P)								Adult Fucus gardneri (P) (> 2cm)								Juvenile Fucus gardneri (P) (<= 2cm)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	8	9.59	4.77	4	0.00	0.00	-	+	0.041	8	9.59	4.77	4	0.00	0.00	-	+	0.041	8	0.00	0.00	4	0.00	0.00	-	o	1.000
2397C/20809	1	12	24.48	8.31	10	0.75	0.75	-	+	0.004	12	23.85	8.41	10	0.75	0.75	-	+	0.006	12	0.63	0.45	10	0.00	0.00	-	+	0.173
Habitat Means			17.05	6.55		0.40	0.40		+			16.75	6.60		0.40	0.40		+			0.30	0.25		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.001	Power	0.030		Power-50%		0.015	P-value		0.179
Stouffer's		Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.000	Power	0.008		Power-50%		0.006	P-value		0.168
P15.1C/P15.1	2	7	3.04	2.47	5	0.26	0.26	-	+	0.413	7	2.69	2.12	5	0.26	0.26	-	+	0.417	7	0.36	0.36	5	0.00	0.00	-	+	0.356
2397C/20809	2	9	57.78	12.21	12	11.73	6.48	-	+	0.001	9	57.78	12.21	12	11.31	6.51	-	+	0.001	9	0.00	0.00	12	0.42	0.42	-	-	0.339
Habitat Means			30.40	7.35		6.00	3.40		+			30.25	7.15		5.80	3.40		+			0.20	0.20		0.20	0.20		-	
Fisher's		Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.414 y
Stouffer's		Power	---		Power-50%		---	P-value		0.002	Power	---		Power-50%		---	P-value		0.002	Power	---		Power-50%		---	P-value		0.491
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	5	4.50	2.78	8	8.20	4.23	-	-	0.756	5	4.26	2.78	8	8.20	4.23	-	-	0.721	5	0.26	0.26	8	0.00	0.00	-	+	0.374
Habitat Means			4.50	2.80		8.20	4.20		-			4.30	2.80		8.20	4.20		-			0.30	0.30		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.45. Algal Percent Cover. Phaeophyta. Prince William Sound. Estuarine. June 1991. Undisturbed. (Continued.)

Site Pair	Mvd	Fucus Stipes (P) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Coarse Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Dictyosiphon sp. (A) N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	8	0.00	0.00	4	0.00	0.00	-	o	1.000	8	0.00	0.00	4	0.00	0.00	-	o	1.000	8	0.00	0.00	4	0.00	0.00	-	o	1.000
2397C/20809	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	2	7	0.00	0.00	5	0.26	0.26	-	-	0.374	7	0.36	0.36	5	0.26	0.26	-	+	0.996	7	0.00	0.00	5	0.00	0.00	-	o	1.000
2397C/20809	2	9	0.28	0.28	12	0.00	0.00	-	.	0.347	9	0.28	0.28	12	0.00	0.00	-	+	0.347	9	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.15	0.15		0.15	0.15		+			0.35	0.35		0.15	0.15		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.417 y	Power	---		Power-50%		---	P-value		0.298	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.485	Power	---		Power-50%		---	P-value		0.252	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	5	0.00	0.00	8	0.00	0.00	-	o	1.000	5	5.26	2.58	8	0.48	0.48	-	-	0.043	5	0.50	0.50	8	0.00	0.00	-	-	0.374
Habitat Means			0.00	0.00		0.00	0.00		o			5.30	2.60		0.50	0.50		+			0.50	0.50		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Fine Filamentous Browns (AE) (b) N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	8	0.00	0.00	4	0.00	0.00	-	o	1.000	8	1.04	1.04	4	0.00	0.00	-	+	0.351	8	1.04	1.04	4	0.00	0.00	-	+	0.351
2397C/20809	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	1.67	1.12	10	0.00	0.00	-	.	0.166	12	1.67	1.12	10	0.00	0.00	-	+	0.166
Habitat Means			0.00	0.00		0.00	0.00		o			1.35	1.05		0.00	0.00		-			1.35	1.05		0.00	0.00		.	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.076	Power	---		Power-50%		---	P-value		0.076
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.051	Power	---		Power-50%		---	P-value		0.051
P15.1C/P15.1	2	7	0.36	0.36	5	0.26	0.26	-	+	0.996	7	2.41	1.63	5	9.02	8.08	-	-	0.400	7	2.41	1.63	5	9.02	8.08	-	-	0.400
2397C/20809	2	9	0.28	0.28	12	0.00	0.00	-	+	0.347	9	6.53	3.92	12	2.82	2.82	-	+	0.312	9	6.53	3.92	12	2.82	2.82	-	+	0.312
Habitat Means			0.35	0.35		0.15	0.15		+			4.45	2.75		5.90	5.45		+			4.45	2.75		5.90	5.45		+	
Fisher's		Power	---		Power-50%		---	P-value		0.298	Power	0.040		Power-50%	0.533	P-value			0.385 y	Power	0.037		Power-50%	0.494	P-value			0.385 y
Stouffer's		Power	---		Power-50%		---	P-value		0.252	Power	0.055		Power-50%	0.658	P-value			0.452	Power	0.056		Power-50%	0.640	P-value			0.452
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	5	4.76	2.64	8	0.00	0.00	-	+	0.096	5	27.26	11.64	8	18.13	10.94	-	+	0.523	5	27.26	11.64	8	18.13	10.94	-	+	0.523
Habitat Means			4.80	2.60		0.00	0.00		+			27.30	11.60		18.10	10.90		+			27.30	11.60		18.10	10.90		+	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Genera not separated.

(b) Elachista, Entocarpus and Pilayella.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.45. Algal Percent Cover. Phaeophyta. Prince William Sound. Estuarine. June 1991. Undisturbed. (Continued.)

		Morphological Group: Saccate Browns								Leathesia/Colpomenia (A) (a)																
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	8	0.00	0.00	4	0.00	0.00	-	o	1.000	8	0.00	0.00	4	0.00	0.00	-	o	1.000									
2397C/20809	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
P15.1C/P15.1	2	7	0.00	0.00	5	0.00	0.00	-	o	1.000	7	0.00	0.00	5	0.00	0.00	-	o	1.000									
2397C/20809	2	9	0.00	0.00	12	0.00	0.00	-	o	1.000	9	0.00	0.00	12	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
2397C/20809	3	5	0.00	0.00	8	0.00	0.00	-	o	1.000	5	0.00	0.00	8	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.46. Algal Percent Cover. Rhodophyta. Prince William Sound. Estuarine. June 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; > = control > oiled; < = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group: Bladed Reds								Porphyra sp. (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	8	0.00	0.00	4	0.00	0.00	-	o	1.000	8	0.00	0.00	4	0.00	0.00	-	o	1.000	8	0.00	0.00	4	0.00	0.00	-	o	1.000
2397C/20809	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	2	7	0.00	0.00	5	0.00	0.00	-	o	1.000	7	0.00	0.00	5	0.00	0.00	-	o	1.000	7	0.00	0.00	5	0.00	0.00	-	o	1.000
2397C/20809	2	9	0.07	0.07	12	2.40	1.40	-	-	0.133	9	0.00	0.00	12	0.00	0.00	-	o	1.000	9	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.05	0.05		1.20	0.70		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.066		Power-50%		---	P-value		0.147	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	0.023		Power-50%		---	P-value		0.144	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	5	0.76	0.50	8	1.57	1.08	-	-	0.770	5	0.26	0.26	8	0.00	0.00	-	-	0.374	5	0.26	0.26	8	0.00	0.00	-	-	0.374
Habitat Means			0.80	0.50		1.60	1.10		-			0.30	0.30		0.00	0.00		-			0.30	0.30		0.00	0.00		.	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Coarse Filamentous Reds								Cryptosiphonia woodii (A)								Gloiopeltis furcata (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	8	0.00	0.00	4	0.00	0.00	-	o	1.000	8	0.00	0.00	4	0.00	0.00	-	o	1.000	8	0.00	0.00	4	0.00	0.00	-	o	1.000
2397C/20809	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	2	7	0.00	0.00	5	0.00	0.00	-	o	1.000	7	0.00	0.00	5	0.00	0.00	-	o	1.000	7	0.00	0.00	5	0.00	0.00	-	o	1.000
2397C/20809	2	9	0.07	0.07	12	2.40	1.40	-	-	0.133	9	0.00	0.00	12	0.00	0.00	-	o	1.000	9	0.07	0.07	12	0.73	0.73	-	-	0.545
Habitat Means			0.05	0.05		1.20	0.70		-			0.00	0.00		0.00	0.00		o			0.05	0.05		0.35	0.35		-	
Fisher's		Power	0.070		Power-50%		---	P-value		0.147	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.408
Stouffer's		Power	0.029		Power-50%		---	P-value		0.144	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.334
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	5	0.50	0.50	8	1.57	1.08	-	-	0.493	5	0.00	0.00	8	0.00	0.00	-	o	1.000	5	0.00	0.00	8	0.48	0.33	-	-	0.177
Habitat Means			0.50	0.50		1.60	1.10		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.50	0.30		-	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.46. Algal Percent Cover. Rhodophyta. Prince William Sound. Estuarine. June 1991. Undisturbed. (Continued.)

Site Pair	Mvd	Neorhodomela/Rhodomela (P) (a) N	C	SE	N	O	SE	CV	D	P	Odonthalia floccosa (P) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	8	0.00	0.00	4	0.00	0.00	-	o	1.000	8	0.00	0.00	4	0.00	0.00	-	o	1.000	8	0.00	0.00	4	0.00	0.00	-	o	1.000
2397C/20809	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50%	---	P-value			0.597	Power ---			Power-50%	---	P-value			0.597	Power ---			Power-50%	---	P-value			0.597
Stouffer's		Power ---			Power-50%	---	P-value			0.500	Power ---			Power-50%	---	P-value			0.500	Power ---			Power-50%	---	P-value			0.500
P15.1C/P15.1	2	7	0.00	0.00	5	0.00	0.00	-	o	1.000	7	0.00	0.00	5	0.00	0.00	-	o	1.000	7	0.00	0.00	5	0.00	0.00	-	o	1.000
2397C/20809	2	9	0.00	0.00	12	0.00	0.00	-	o	1.000	9	0.00	0.00	12	1.67	1.28	-	-	0.183	9	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.85	0.65		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50%	---	P-value			0.597	Power 0.014			Power-50%	---	P-value			0.187	Power ---			Power-50%	---	P-value			0.597
Stouffer's		Power ---			Power-50%	---	P-value			0.500	Power 0.004			Power-50%	---	P-value			0.173	Power ---			Power-50%	---	P-value			0.500
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	5	0.50	0.50	8	0.63	0.63	-	-	0.937	5	0.00	0.00	8	0.48	0.48	-	-	0.351	5	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			0.50	0.50		0.60	0.60		-			0.00	0.00		0.50	0.50		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50%	---	P-value			--- z	Power ---			Power-50%	---	P-value			--- z	Power ---			Power-50%	---	P-value			--- z
Stouffer's		Power ---			Power-50%	---	P-value			---	Power ---			Power-50%	---	P-value			---	Power ---			Power-50%	---	P-value			---

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	8	0.00	0.00	4	0.00	0.00	-	o	1.000																		
2397C/20809	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power ---			Power-50%	---	P-value			0.597	Power ---			Power-50%	---	P-value				Power ---			Power-50%	---	P-value			
Stouffer's		Power ---			Power-50%	---	P-value			0.500	Power ---			Power-50%	---	P-value				Power ---			Power-50%	---	P-value			
P15.1C/P15.1	2	7	0.00	0.00	5	0.00	0.00	-	o	1.000																		
2397C/20809	2	9	0.00	0.00	12	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power ---			Power-50%	---	P-value			0.597	Power ---			Power-50%	---	P-value				Power ---			Power-50%	---	P-value			
Stouffer's		Power ---			Power-50%	---	P-value			0.500	Power ---			Power-50%	---	P-value				Power ---			Power-50%	---	P-value			
P15.1C/P15.1	3	0	--	--	0	--	--	-		---																		
2397C/20809	3	5	0.00	0.00	8	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power ---			Power-50%	---	P-value			--- z	Power ---			Power-50%	---	P-value				Power ---			Power-50%	---	P-value			
Stouffer's		Power ---			Power-50%	---	P-value			---	Power ---			Power-50%	---	P-value				Power ---			Power-50%	---	P-value			

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.47. Algal Percent Cover. Invertebrates. Prince William Sound. Estuarine. June 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

			Lottidae										Mytilus									
	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P			
2397C/20809	1	12	6.94	6.20	10	0.00	0.00	-	+	0.171	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.21	0.21	10	0.00	0.00	-	+	0.339
Habitat Means			3.75	3.30		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.10	0.10		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.043	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.294
Stouffer's		Power	---		Power-50%		---	P-value		0.026	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.249
P15.1C/P15.1	2	7	0.36	0.36	5	0.12	0.12	-	+	0.816	7	0.00	0.00	5	0.00	0.00	-	o	1.000	7	0.09	0.09	5	0.00	0.00	-	+	0.356
2397C/20809	2	9	4.66	2.47	12	1.21	0.58	-	+	0.217	9	0.00	0.00	12	0.00	0.00	-	o	1.000	9	0.57	0.43	12	1.57	1.26	-	-	0.749
Habitat Means			2.55	1.45		0.65	0.35		+			0.00	0.00		0.00	0.00		o			0.35	0.25		0.80	0.65		+	
Fisher's		Power	0.320		Power-50%		0.437	P-value		0.182	Power	---		Power-50%		---	P-value		0.597	Power	0.025		Power-50%		0.144	P-value		0.356 y
Stouffer's		Power	0.326		Power-50%		0.464	P-value		0.150	Power	---		Power-50%		---	P-value		0.500	Power	0.046		Power-50%		0.232	P-value		0.335
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	5	6.52	2.48	8	1.32	0.51	-	+	0.062	5	0.00	0.00	8	0.00	0.00	-	o	1.000	5	4.00	2.57	8	0.48	0.33	-	+	0.194
Habitat Means			6.50	2.50		1.30	0.50		+			0.00	0.00		0.00	0.00		o			4.00	2.60		0.50	0.30		-	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall t st
y Direction of difference between habitat means is different than direction of
z Only one site pair.

December

			Littorinidae																			
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	8	0.00	0.00	4	0.00	0.00	-	o	1.000																		
2397C/20809	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
P15.1C/P15.1	2	7	0.00	0.00	5	0.00	0.00	-	o	1.000																		
2397C/20809	2	9	0.00	0.00	12	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
P15.1C/P15.1	3	0	--	--	0	--	--	-		---																		
2397C/20809	3	5	0.00	0.00	8	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.48. Algal Percent Cover. Substrates. Prince William Sound. Estuarine. June 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Rock								Mud								Sand							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	8	25.73	11.42	4	43.75	25.34	-	-	0.766	8	15.06	4.15	4	53.45	26.71	-	-	0.295	8	0.00	0.00	4	0.00	0.00	-	o	1.000
2397C/20809	1	12	65.06	9.39	10	97.88	1.09	-	-	0.001	12	0.11	0.11	10	0.00	0.00	-	-	0.339	12	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			45.40	10.40		70.85	13.20		-			7.60	2.15		26.75	13.35		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.002	Power	0.177		Power-50%		0.259	P-value		0.380	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.005	Power	0.075		Power-50%		0.294	P-value		0.474	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	2	7	15.19	14.15	5	40.52	17.64	-	-	0.306	7	46.26	17.61	5	48.64	21.90	-	-	0.916	7	0.00	0.00	5	0.00	0.00	-	o	1.000
2397C/20809	2	9	24.17	8.80	12	79.07	9.19	-	-	0.000	9	2.78	2.02	12	0.00	0.00	-	+	0.180	9	1.94	1.94	12	0.00	0.00	-	+	0.347
Habitat Means			19.70	11.50		59.80	13.40		-			24.55	9.80		24.30	10.95		+			0.95	0.95		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.000	Power	0.080		Power-50%		0.461	P-value		0.196	Power	---		Power-50%		---	P-value		0.299
Stouffer's		Power	---		Power-50%		---	P-value		0.001	Power	0.169		Power-50%		0.552	P-value		0.191	Power	---		Power-50%		---	P-value		0.253
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	5	26.50	15.10	8	68.38	15.36	-	-	0.116	5	5.00	2.85	8	0.00	0.00	-	+	0.099	5	0.00	0.00	8	0.55	0.55	-	-	0.351
Habitat Means			26.50	15.10		68.40	15.40		-			5.00	2.90		0.00	0.00		+			0.00	0.00		0.60	0.60		-	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Shell Fragments								Water								Zostera/Phyllospadix							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	8	0.00	0.00	4	0.00	0.00	-	o	1.000	8	0.00	0.00	4	0.00	0.00	-	o	1.000	8	0.00	0.00	4	0.00	0.00	-	o	1.000
2397C/20809	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	2	7	0.19	0.19	5	0.00	0.00	-	+	0.356	7	0.00	0.00	5	0.00	0.00	-	o	1.000	7	0.00	0.00	5	0.00	0.00	-	o	1.000
2397C/20809	2	9	0.00	0.00	12	0.00	0.00	-	o	1.000	9	0.00	0.00	12	0.00	0.00	-	o	1.000	9	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.10	0.10		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.304	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.257	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	5	0.00	0.00	8	0.00	0.00	-	o	1.000	5	0.00	0.00	8	0.00	0.00	-	o	1.000	5	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.48. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Estuarine. June 1991. Undisturbed. (Continued.)

		Sand and Mud								Total Substrate																					
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P			
P15.1C/P15.1	1	8	15.06	4.15	4	53.45	26.71	-	-	0.295	8	40.79	10.52	4	97.20	1.65	-	-	0.006												
2397C/20809	1	12	0.11	0.11	10	0.00	0.00	-	+	0.339	12	65.17	9.38	10	97.88	1.09	-	-	0.001												
Habitat Means			7.60	2.15		26.75	13.35		-			53.00	9.95		97.55	1.40		-													
Fisher's		Power	0.177		Power-50%		0.255	P-value		0.380	Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value					
Stouffer's		Power	0.067		Power-50%		0.301	P-value		0.474	Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value					
P15.1C/P15.1	2	7	46.43	17.62	5	48.64	21.90	-	-	0.919	7	61.61	17.13	5	89.14	8.74	-	-	0.273												
2397C/20809	2	9	4.72	2.55	12	0.00	0.00	-	+	0.087	9	28.89	8.95	12	79.07	9.19	-	-	0.001												
Habitat Means			25.55	10.10		24.30	10.95		+			45.25	13.05		84.10	8.95		-													
Fisher's		Power	0.154		Power-50%		0.632	P-value		0.112	Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value					
Stouffer's		Power	0.275		Power-50%		0.704	P-value		0.128	Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value					
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---												
2397C/20809	3	5	5.00	2.85	8	0.55	0.55	-	.	0.066	5	31.50	13.96	8	68.93	15.04	-	-	0.147												
Habitat Means			5.00	2.90		0.60	0.60		-			31.50	14.00		68.90	15.00		-													
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value					
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value					

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.49. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Estuarine. July 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Algal Diversity Index (a)								Algal Taxa Richness (b)								Total Algae							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	5	0.04	0.04	9	0.00	0.00	-	+	0.374	5	0.60	0.40	9	0.11	0.11	-	+	0.159	5	13.00	9.70	9	0.28	0.28	-	+	0.237
2397C/20809	1	14	0.02	0.02	12	0.00	0.00	-	+	0.336	14	0.86	0.21	12	0.17	0.11	-	+	0.010	14	26.29	8.07	12	7.30	7.18	-	+	0.034
Habitat Means			0.03	0.03		0.00	0.00		+			0.73	0.30		0.14	0.11		+			19.65	8.90		3.80	3.75		+	
Fisher's		Power	---		Power-50%		---	P-value		0.140	Power	---		Power-50%		---	P-value		0.003	Power	---		Power-50%		---	P-value		0.014
Stouffer's		Power	---		Power-50%		---	P-value		0.095	Power	---		Power-50%		---	P-value		0.002	Power	---		Power-50%		---	P-value		0.010
P15.1C/P15.1	2	5	0.00	0.00	9	0.04	0.04	-	-	0.347	5	0.40	0.24	9	0.78	0.32	-	-	0.443	5	24.26	19.38	9	8.20	4.57	-	+	0.397
2397C/20809	2	13	0.07	0.05	14	0.02	0.02	-	+	0.348	13	1.31	0.36	14	0.50	0.17	-	+	0.051	13	42.46	11.62	14	5.81	2.16	-	+	0.007
Habitat Means			0.03	0.02		0.03	0.03		-			0.85	0.31		0.64	0.25		+			33.40	15.50		7.00	3.40		+	
Fisher's		Power	0.016		Power-50%		0.040	P-value		0.422 y	Power	---		Power-50%		---	P-value		0.098	Power	---		Power-50%		---	P-value		0.006
Stouffer's		Power	0.031		Power-50%		0.036	P-value		0.499	Power	0.277		Power-50%		0.902	P-value		0.202	Power	---		Power-50%		---	P-value		0.006
P15.1C/P15.1	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.50	0.50	-		---	0	--	--	2	2.50	2.50	-		---
2397C/20809	3	12	0.28	0.09	11	0.06	0.03	-	+	0.036	12	2.75	0.72	11	1.09	0.21	-	+	0.046	12	61.88	10.94	11	41.38	12.00	-	+	0.310
Habitat Means			0.28	0.09		0.03	0.02		+			2.75	0.72		0.80	0.36		+			61.90	10.90		21.95	7.25		+	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Modified Shannon Index.
(b) Taxa richness calculations are explained in the methods.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Invertebrates								Rock								Perennials (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	5	0.00	0.00	9	0.00	0.00	-	o	1.000	5	8.50	8.50	9	44.03	17.04	-	-	0.161	5	3.00	3.00	9	0.28	0.28	-	-	0.486
2397C/20809	1	14	10.72	7.14	12	0.00	0.00	-	+	0.066	14	61.31	8.78	12	90.53	7.30	-	-	0.006	14	26.20	8.04	12	7.30	7.18	-	-	0.034
Habitat Means			5.35	3.55		0.00	0.00		-			34.90	8.65		67.25	12.15		-			14.60	5.50		3.80	3.75		-	
Fisher's		Power	---		Power-50%		---	P-value		0.084	Power	---		Power-50%		---	P-value		0.002	Power	---		Power-50%		---	P-value		0.027
Stouffer's		Power	---		Power-50%		---	P-value		0.097	Power	---		Power-50%		---	P-value		0.002	Power	---		Power-50%		---	P-value		0.023
P15.1C/P15.1	2	5	0.00	0.00	9	3.92	1.69	-	-	0.013	5	14.02	11.57	9	57.16	14.24	-	-	0.054	5	0.00	0.00	9	1.88	1.43	-	-	0.130
2397C/20809	2	13	20.01	8.56	14	7.59	3.02	-	+	0.225	13	35.73	10.06	14	86.61	3.46	-	-	0.000	13	40.73	11.84	14	2.32	1.19	-	-	0.004
Habitat Means			10.00	4.30		5.75	2.35		-			24.85	10.85		71.90	8.85		-			20.35	5.90		2.10	1.30		-	
Fisher's		Power	---		Power-50%		---	P-value		0.035 y	Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.013
Stouffer's		Power	0.100		Power-50%		0.071	P-value		0.184	Power	---		Power-50%		---	P-value		0.000	Power	0.072		Power-50%		0.051	P-value		0.164
P15.1C/P15.1	3	0	--	--	2	3.15	0.65	-		---	0	--	--	2	80.65	15.65	-		---	0	--	--	2	0.00	0.00	-		---
2397C/20809	3	12	18.76	7.63	11	16.49	6.45	-	+	0.870	12	8.34	3.40	11	42.16	12.54	-	-	0.044	12	36.26	11.16	11	19.89	9.48	-	+	0.219
Habitat Means			18.80	7.60		9.85	3.60		+			8.30	3.40		61.45	14.10		-			36.30	11.20		9.95	4.75		+	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.49. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Estuarine. July 1991. Undisturbed. (Continued.)

		Annuals (A)									Ephemerals (AE)																	
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
2397C/20809	1	14	0.09	0.09	12	0.00	0.00	-	+	0.336		14	0.09	0.09	12	0.00	0.00	-	+	0.336											
Habitat Means			5.05	5.05		0.00	0.00		+				5.05	5.05		0.00	0.00		+											
Fisher's		Power	---		Power-50%		---	P-value		0.140		Power	---		Power-50%		---	P-value		0.140		Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		0.095		Power	---		Power-50%		---	P-value		0.095		Power	---		Power-50%		---	P-value			
P15.1C/P15.1	2	5	24.26	19.38	9	6.32	3.46	-	+	0.446		5	24.26	19.38	9	6.32	3.46	-	+	0.446											
2397C/20809	2	13	1.73	1.18	14	3.49	1.99	-	-	0.564		13	1.68	1.15	14	2.77	1.94	-	-	0.823											
Habitat Means			13.00	10.30		4.90	2.75		+				13.00	10.30		4.55	2.70		+											
Fisher's		Power	0.121		Power-50%		0.351	P-value		0.453		Power	0.145		Power-50%		0.309	P-value		0.398		Power	---		Power-50%		---	P-value			
Stouffer's		Power	0.088		Power-50%		0.455	P-value		0.448		Power	0.127		Power-50%		0.429	P-value		0.352		Power	---		Power-50%		---	P-value			
P15.1C/P15.1	3	0	--	--	2	2.50	2.50	-		---		0	--	--	2	2.50	2.50	-		---											
2397C/20809	3	12	25.63	8.06	11	21.49	10.63	-	+	0.889		12	14.28	5.69	11	21.37	10.66	-	-	0.580											
Habitat Means			25.60	8.10		12.00	6.55		+				14.30	5.70		11.95	6.60		-											
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	y	Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value			

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.50. Algal Percent Cover. Chlorophyta. Prince William Sound. Estuarine. July 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group: Bladed Greens								Bladed Greens (AE) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	5	0.00	0.00	9	0.00	0.00	-	o	1.000	5	0.00	0.00	9	0.00	0.00	-	o	1.000	5	0.00	0.00	9	0.00	0.00	-	o	1.000
2397C/20809	1	14	0.09	0.09	12	0.00	0.00	-	+	0.336	14	0.00	0.00	12	0.00	0.00	-	o	1.000	14	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.05	0.05		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.292	Power		---		Power-50%		---	P-value	0.597	Power		---		Power-50%		---	P-value	0.597
Stouffer's	Power		---		Power-50%		---	P-value		0.248	Power		---		Power-50%		---	P-value	0.500	Power		---		Power-50%		---	P-value	0.500
P15.1C/P15.1	2	5	0.00	0.00	9	0.00	0.00	-	o	1.000	5	0.00	0.00	9	0.00	0.00	-	o	1.000	5	0.00	0.00	9	0.00	0.00	-	o	1.000
2397C/20809	2	13	0.19	0.19	14	2.77	1.94	-	-	0.272	13	0.00	0.00	14	0.00	0.00	-	o	1.000	13	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.10	0.10		1.40	0.95		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		0.035		Power-50%		---	P-value		0.251	Power		---		Power-50%		---	P-value	0.597	Power		---		Power-50%		---	P-value	0.597
Stouffer's	Power		0.010		Power-50%		---	P-value		0.218	Power		---		Power-50%		---	P-value	0.500	Power		---		Power-50%		---	P-value	0.500
P15.1C/P15.1	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
2397C/20809	3	12	6.67	3.38	11	2.73	2.73	-	+	0.207	12	3.44	2.50	11	0.00	0.00	-	+	0.093	12	3.44	2.50	11	0.00	0.00	-	+	0.093
Habitat Means			6.70	3.40		1.35	1.35		+			3.40	2.50		0.00	0.00		+			3.40	2.50		0.00	0.00		+	
Fisher's	Power		---		Power-50%		---	P-value		--- z	Power		---		Power-50%		---	P-value	--- z	Power		---		Power-50%		---	P-value	--- z
Stouffer's	Power		---		Power-50%		---	P-value		---	Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---

(a) Korrmannia, Monostroma, Ulva and Ulvaria.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Fine Filamentous Greens								Acrosiphonia sp. (A)								Chaetomorpha/Rhizoclonium (A) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	5	0.00	0.00	9	0.00	0.00	-	o	1.000	5	0.00	0.00	9	0.00	0.00	-	o	1.000	5	0.00	0.00	9	0.00	0.00	-	o	1.000
2397C/20809	1	14	0.09	0.09	12	0.00	0.00	-	+	0.336	14	0.00	0.00	12	0.00	0.00	-	o	1.000	14	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.05	0.05		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.292	Power		---		Power-50%		---	P-value	0.597	Power		---		Power-50%		---	P-value	0.597
Stouffer's	Power		---		Power-50%		---	P-value		0.248	Power		---		Power-50%		---	P-value	0.500	Power		---		Power-50%		---	P-value	0.500
P15.1C/P15.1	2	5	0.00	0.00	9	0.00	0.00	-	o	1.000	5	0.00	0.00	9	0.00	0.00	-	o	1.000	5	0.00	0.00	9	0.00	0.00	-	o	1.000
2397C/20809	2	13	0.19	0.19	14	1.07	1.07	-	-	0.607	13	0.00	0.00	14	0.00	0.00	-	o	1.000	13	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.10	0.10		0.55	0.55		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.438	Power		---		Power-50%		---	P-value	0.597	Power		---		Power-50%		---	P-value	0.597
Stouffer's	Power		---		Power-50%		---	P-value		0.358	Power		---		Power-50%		---	P-value	0.500	Power		---		Power-50%		---	P-value	0.500
P15.1C/P15.1	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
2397C/20809	3	12	2.82	1.23	11	0.00	0.00	-	+	0.040	12	0.83	0.83	11	0.00	0.00	-	+	0.339	12	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			2.80	1.20		0.00	0.00		+			0.80	0.80		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		--- z	Power		---		Power-50%		---	P-value	--- z	Power		---		Power-50%		---	P-value	--- z
Stouffer's	Power		---		Power-50%		---	P-value		---	Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.50. Algal Percent Cover. Chlorophyta. Prince William Sound. Estuarine. July 1991. Undisturbed. (Continued.)

		Cladophora sp. (AE)								Morphological Group: Tubular and Saccate Greens								Blidingia/Enteromorpha (AE) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	5	0.00	0.00	9	0.00	0.00	-	o	1.000	5	0.00	0.00	9	0.00	0.00	-	o	1.000	5	0.00	0.00	9	0.00	0.00	-	o	1.000
2397C/20809	1	14	0.09	0.09	12	0.00	0.00	-	+	0.336	14	0.00	0.00	12	0.00	0.00	-	o	1.000	14	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.05	0.05		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.292	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.248	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	2	5	0.00	0.00	9	0.00	0.00	-	o	1.000	5	0.00	0.00	9	0.00	0.00	-	o	1.000	5	0.00	0.00	9	0.00	0.00	-	o	1.000
2397C/20809	2	13	0.19	0.19	14	1.07	1.07	-	-	0.607	13	0.00	0.00	14	1.70	1.70	-	-	0.336	13	0.00	0.00	14	1.70	1.70	-	-	0.336
Habitat Means			0.10	0.10		0.55	0.55		-			0.00	0.00		0.85	0.85		-			0.00	0.00		0.85	0.85		-	
Fisher's		Power	---		Power-50%		---	P-value		0.438	Power	---		Power-50%		---	P-value		0.292	Power	---		Power-50%		---	P-value		0.292
Stouffer's		Power	---		Power-50%		---	P-value		0.358	Power	---		Power-50%		---	P-value		0.248	Power	---		Power-50%		---	P-value		0.248
P15.1C/P15.1	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
2397C/20809	3	12	1.98	1.06	11	0.00	0.00	-	-	0.084	12	0.42	0.28	11	2.73	2.73	-	-	0.645	12	0.42	0.28	11	2.73	2.73	-	-	0.645
Habitat Means			2.00	1.10		0.00	0.00		+			0.40	0.30		1.35	1.35		-			0.40	0.30		1.35	1.35		-	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Genera not separated.
x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.51. Algal Percent Cover. Phaeophyta. Prince William Sound. Estuarine. July 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group: Bladed Browns								Fucus cottonii (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	5	13.00	9.70	9	0.28	0.28	-	+	0.237	5	3.00	3.00	9	0.28	0.28	-	+	0.486	5	0.50	0.50	9	0.00	0.00	-	-	0.374
2397C/20809	1	14	23.25	7.43	12	7.30	7.18	-	-	0.044	14	23.25	7.43	12	7.30	7.18	-	-	0.044	14	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			18.15	8.55		3.80	3.75		+			13.15	5.20		3.80	3.75		+			0.25	0.25		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.018	Power	---		Power-50%		---	P-value		0.033	Power	---		Power-50%		---	P-value		0.315
Stouffer's		Power	---		Power-50%		---	P-value		0.012	Power	---		Power-50%		---	P-value		0.028	Power	---		Power-50%		---	P-value		0.265
P15.1C/P15.1	2	5	24.26	19.38	9	7.09	3.64	-	+	0.503	5	0.00	0.00	9	0.77	0.41	-	-	0.086	5	0.00	0.00	9	0.00	0.00	-	o	1.000
2397C/20809	2	13	41.78	11.70	14	2.32	1.19	-	-	0.003	13	40.30	11.93	14	2.32	1.19	-	+	0.004	13	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			33.05	15.55		4.70	2.40		+			20.15	5.95		1.55	0.80		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.004	Power	---		Power-50%		---	P-value		0.015x	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.005	Power	0.123		Power-50%		0.047	P-value		0.210	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	3	0	--	--	2	2.50	2.50	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
2397C/20809	3	12	55.01	10.84	11	38.54	12.59	-	+	0.355	12	36.26	11.16	11	19.89	9.48	-	+	0.219	12	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			55.00	10.80		20.50	7.55		+			36.30	11.20		9.95	4.75		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Fucus gardneri (P)								Adult Fucus gardneri (P) (> 2cm)								Juvenile Fucus gardneri (P) (<= 2cm)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	5	2.50	2.50	9	0.28	0.28	-	+	0.499	5	2.00	2.00	9	0.28	0.28	-	+	0.389	5	0.50	0.50	9	0.00	0.00	-	+	0.374
2397C/20809	1	14	23.25	7.43	12	7.30	7.18	-	+	0.044	14	23.22	7.42	12	7.19	7.19	-	+	0.039	14	0.03	0.03	12	0.11	0.11	-	-	0.623
Habitat Means			12.90	4.95		3.80	3.75		+			12.60	4.70		3.75	3.75		+			0.25	0.25		0.05	0.05		+	
Fisher's		Power	---		Power-50%		---	P-value		0.034	Power	---		Power-50%		---	P-value		0.025	Power	---		Power-50%		---	P-value		0.393
Stouffer's		Power	---		Power-50%		---	P-value		0.029	Power	---		Power-50%		---	P-value		0.019	Power	---		Power-50%		---	P-value		0.389
P15.1C/P15.1	2	5	0.00	0.00	9	0.77	0.41	-	-	0.086	5	0.00	0.00	9	0.77	0.41	-	-	0.086	5	0.00	0.00	9	0.00	0.00	-	o	1.000
2397C/20809	2	13	40.30	11.93	14	2.32	1.19	-	+	0.004	13	40.10	11.97	14	2.06	1.17	-	+	0.005	13	0.20	0.14	14	0.27	0.27	-	-	0.849
Habitat Means			20.15	5.95		1.55	0.80		+			20.05	6.00		1.45	0.80		+			0.10	0.05		0.15	0.15		-	
Fisher's		Power	---		Power-50%		---	P-value		0.015x	Power	---		Power-50%		---	P-value		0.016x	Power	0.001		Power-50%		0.038	P-value		0.541
Stouffer's		Power	0.132		Power-50%		0.043	P-value		0.210	Power	0.115		Power-50%		0.116	P-value		0.217	Power	0.000		Power-50%		0.038	P-value		0.447
P15.1C/P15.1	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
2397C/20809	3	12	36.26	11.16	11	19.89	9.48	-	+	0.219	12	36.26	11.16	11	17.95	9.65	-	+	0.161	12	0.00	0.00	11	1.94	1.94	-	-	0.341
Habitat Means			36.30	11.20		9.95	4.75		+			36.30	11.20		9.00	4.85		+			0.00	0.00		0.95	0.95		-	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.51. Algal Percent Cover. Phaeophyta. Prince William Sound. Estuarine. July 1991. Undisturbed. (Continued.)

Site Pair	Mvd	Fucus Stipes (P) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Coarse Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Dictyosiphon sp. (A) N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	5	0.00	0.00	9	0.28	0.28	-	-	0.347	5	0.00	0.00	9	0.00	0.00	-	o	1.000	5	0.00	0.00	9	0.00	0.00	-	o	1.000
2397C/20809	1	14	0.00	0.00	12	0.00	0.00	-	o	1.000	14	0.00	0.00	12	0.00	0.00	-	o	1.000	14	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.15	0.15		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power	---			Power-50%			---	P-value	0.299	Power	---			Power-50%			---	P-value	0.597	Power	---			Power-50%			---	P-value	0.597
Stouffer's	Power	---			Power-50%			---	P-value	0.253	Power	---			Power-50%			---	P-value	0.500	Power	---			Power-50%			---	P-value	0.500
P15.1C/P15.1	2	5	0.00	0.00	9	0.00	0.00	-	o	1.000	5	0.00	0.00	9	0.00	0.00	-	o	1.000	5	0.00	0.00	9	0.00	0.00	-	o	1.000
2397C/20809	2	13	0.00	0.00	14	0.00	0.00	-	o	1.000	13	0.00	0.00	14	0.00	0.00	-	o	1.000	13	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power	---			Power-50%			---	P-value	0.597	Power	---			Power-50%			---	P-value	0.597	Power	---			Power-50%			---	P-value	0.597
Stouffer's	Power	---			Power-50%			---	P-value	0.500	Power	---			Power-50%			---	P-value	0.500	Power	---			Power-50%			---	P-value	0.500
P15.1C/P15.1	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
2397C/20809	3	11	0.00	0.00	11	0.00	0.00	-	o	1.000	12	10.32	4.77	11	0.00	0.00	-	+	0.020	12	9.17	4.77	11	0.00	0.00	-	+	0.053
Habitat Means			0.00	0.00		0.00	0.00		o			10.30	4.80		0.00	0.00		+			9.20	4.80		0.00	0.00		+	
Fisher's	Power	---			Power-50%			---	P-value	--- z	Power	---			Power-50%			---	P-value	--- z	Power	---			Power-50%			---	P-value	--- z
Stouffer's	Power	---			Power-50%			---	P-value	---	Power	---			Power-50%			---	P-value	---	Power	---			Power-50%			---	P-value	---

(a) Dead Fucus plants or stipes without blades.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Myelophycus/Scytosiphon (1) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Fine Filamentous Browns (AE) (b) N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	5	0.00	0.00	9	0.00	0.00	-	o	1.000	5	10.00	10.00	9	0.00	0.00	-	+	0.374	5	10.00	10.00	9	0.00	0.00	-	+	0.374
2397C/20809	1	14	0.00	0.00	12	0.00	0.00	-	o	1.000	14	0.00	0.00	12	0.00	0.00	-	o	1.000	14	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			5.00	5.00		0.00	0.00		+			5.00	5.00		0.00	0.00		+	
Fisher's	Power	---			Power-50%			---	P-value	0.597	Power	---			Power-50%			---	P-value	0.315	Power	---			Power-50%			---	P-value	0.315
Stouffer's	Power	---			Power-50%			---	P-value	0.500	Power	---			Power-50%			---	P-value	0.265	Power	---			Power-50%			---	P-value	0.265
P15.1C/P15.1	2	5	0.00	0.00	9	0.00	0.00	-	o	1.000	5	24.26	19.38	9	6.32	3.46	-	+	0.446	5	24.26	19.38	9	6.32	3.46	-	+	0.446
2397C/20809	2	13	0.00	0.00	14	0.00	0.00	-	o	1.000	13	1.49	1.01	14	0.00	0.00	-	+	0.166	13	1.49	1.01	14	0.00	0.00	-	+	0.166
Habitat Means			0.00	0.00		0.00	0.00		o			12.90	10.20		3.15	1.75		+			12.90	10.20		3.15	1.75		+	
Fisher's	Power	---			Power-50%			---	P-value	0.597	Power	---			Power-50%			---	P-value	0.092	Power	---			Power-50%			---	P-value	0.092
Stouffer's	Power	---			Power-50%			---	P-value	0.500	Power	---			Power-50%			---	P-value	0.064	Power	---			Power-50%			---	P-value	0.064
P15.1C/P15.1	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	2.50	2.50	-		---	0	--	--	2	2.50	2.50	-		---
2397C/20809	3	11	1.15	0.65	11	0.00	0.00	-	-	0.088	12	8.45	3.78	11	18.65	10.79	-	-	0.495	12	8.45	3.78	11	18.65	10.79	-	-	0.495
Habitat Means			1.20	0.70		0.00	0.00		-			8.50	3.80		10.60	6.65		-			8.50	3.80		10.60	6.65		-	
Fisher's	Power	---			Power-50%			---	P-value	--- z	Power	---			Power-50%			---	P-value	--- z	Power	---			Power-50%			---	P-value	--- z
Stouffer's	Power	---			Power-50%			---	P-value	---	Power	---			Power-50%			---	P-value	---	Power	---			Power-50%			---	P-value	---

(a) Genera not separated.

(b) Elachista, Ectocarpus and Pilayella.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.51. Algal Percent Cover. Phaeophyta. Prince William Sound. Estuarine. July 1991. Undisturbed. (Continued.)

		Morphological Group: Saccate Browns								Leathesia/Colpomenia (A) (a)															
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	5	0.00	0.00	9	0.00	0.00	-	o	1.000	5	0.00	0.00	9	0.00	0.00	-	o	1.000									
2397C/20809	1	14	0.00	0.00	12	0.00	0.00	-	o	1.000	14	0.00	0.00	12	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
P15.1C/P15.1	2	5	0.00	0.00	9	0.00	0.00	-	o	1.000	5	0.00	0.00	9	0.00	0.00	-	o	1.000									
2397C/20809	2	13	0.00	0.00	14	0.00	0.00	-	o	1.000	13	0.00	0.00	14	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
P15.1C/P15.1	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---									
2397C/20809	3	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		

(a) Genera not separated.

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.52. Algal Percent Cover. Rhodophyta. Prince William Sound. Estuarine. July 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group: Bladed Reds								Porphyra sp. (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	5	0.00	0.00	9	0.00	0.00	-	o	1.000	5	0.00	0.00	9	0.00	0.00	-	o	1.000	5	0.00	0.00	9	0.00	0.00	-	o	1.000
2397C/20809	1	14	2.95	2.95	12	0.00	0.00	-	+	0.336	14	0.00	0.00	12	0.00	0.00	-	o	1.000	14	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			1.50	1.50		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.292	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.248	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	2	5	0.00	0.00	9	1.11	1.11	-	-	0.347	5	0.00	0.00	9	0.00	0.00	-	o	1.000	5	0.00	0.00	9	0.00	0.00	-	o	1.000
2397C/20809	2	13	0.48	0.39	14	0.71	0.71	-	-	0.917	13	0.00	0.00	14	0.00	0.00	-	o	1.000	13	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.25	0.20		0.90	0.90		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.016		Power-50%		0.005	P-value		0.281	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	0.047		Power-50%		0.002	P-value		0.230	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
2397C/20809	3	12	0.21	0.21	11	0.12	0.12	-	+	0.869	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			0.20	0.20		0.05	0.05		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Coarse Filamentous Reds								Cryptosiphonia woodii (A)								Gloiopeltis furcata (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	5	0.00	0.00	9	0.00	0.00	-	o	1.000	5	0.00	0.00	9	0.00	0.00	-	o	1.000	5	0.00	0.00	9	0.00	0.00	-	o	1.000
2397C/20809	1	14	2.95	2.95	12	0.00	0.00	-	-	0.336	14	0.00	0.00	12	0.00	0.00	-	o	1.000	14	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			1.50	1.50		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.292	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.248	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	2	5	0.00	0.00	9	1.11	1.11	-	-	0.347	5	0.00	0.00	9	0.00	0.00	-	o	1.000	5	0.00	0.00	9	0.00	0.00	-	o	1.000
2397C/20809	2	13	0.48	0.39	14	0.71	0.71	-	-	0.917	13	0.05	0.05	14	0.00	0.00	-	+	0.337	13	0.00	0.00	14	0.71	0.71	-	-	0.336
Habitat Means			0.25	0.20		0.90	0.90		-			0.05	0.05		0.00	0.00		+			0.00	0.00		0.35	0.35		-	
Fisher's		Power	0.017		Power-50%		0.010	P-value		0.281	Power	---		Power-50%		---	P-value		0.293	Power	---		Power-50%		---	P-value		0.292
Stouffer's		Power	0.052		Power-50%		0.001	P-value		0.230	Power	---		Power-50%		---	P-value		0.249	Power	---		Power-50%		---	P-value		0.248
P15.1C/P15.1	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
2397C/20809	3	12	0.00	0.00	11	0.12	0.12	-	-	0.341	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.12	0.12	-	-	0.341
Habitat Means			0.00	0.00		0.05	0.05		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.05	0.05		-	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.52. Algal Percent Cover. Rhodophyta. Prince William Sound. Estuarine. July 1991. Undisturbed. (Continued.)

Site Pair	Mvd	Neorhodomela/Rhodomela (P) (a) N	C	SE	N	O	SE	CV	D	P	Odonthalia floccosa (P) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	5	0.00	0.00	9	0.00	0.00	-	o	1.000	5	0.00	0.00	9	0.00	0.00	-	o	1.000	5	0.00	0.00	9	0.00	0.00	-	o	1.000
2397C/20809	1	14	0.00	0.00	12	0.00	0.00	-	o	1.000	14	2.95	2.95	12	0.00	0.00	-	+	0.336	14	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			1.50	1.50		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.292	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.248	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	2	5	0.00	0.00	9	1.11	1.11	-	-	0.347	5	0.00	0.00	9	0.00	0.00	-	o	1.000	5	0.00	0.00	9	0.00	0.00	-	o	1.000
2397C/20809	2	13	0.00	0.00	14	0.00	0.00	-	o	1.000	13	0.43	0.38	14	0.00	0.00	-	+	0.217	13	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.55	0.55		-			0.20	0.20		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.299	Power	0.002		Power-50%		0.000	P-value		0.212	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.253	Power	0.001		Power-50%		0.000	P-value		0.191	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
2397C/20809	3	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.21	0.21	11	0.00	0.00	-	+	0.339
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.20	0.20		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	5	0.00	0.00	9	0.00	0.00	-	o	1.000																		
2397C/20809	1	14	0.00	0.00	12	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
P15.1C/P15.1	2	5	0.00	0.00	9	0.00	0.00	-	o	1.000																		
2397C/20809	2	13	0.00	0.00	14	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
P15.1C/P15.1	3	0	--	--	2	0.00	0.00	-		---																		
2397C/20809	3	12	0.21	0.21	11	0.00	0.00	-	-	0.339																		
Habitat Means			0.20	0.20		0.00	0.00		+																			
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.53. Algal Percent Cover. Invertebrates. Prince William Sound. Estuarine. July 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Balanomorpha								Lottiidae								Mytilus							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	5	0.00	0.00	9	0.00	0.00	-	o	1.000	5	0.00	0.00	9	0.00	0.00	-	o	1.000	5	0.00	0.00	9	0.00	0.00	-	o	1.000
2397C/20809	1	14	10.72	7.14	12	0.00	0.00	-	+	0.066	14	0.00	0.00	12	0.00	0.00	-	o	1.000	14	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			5.35	3.55		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.084	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.097	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	2	5	0.00	0.00	9	2.64	1.07	-	-	0.021	5	0.00	0.00	9	0.00	0.00	-	o	1.000	5	0.00	0.00	9	1.28	0.83	-	-	0.102
2397C/20809	2	13	17.84	7.41	14	5.81	2.86	-	+	0.140	13	0.00	0.00	14	0.00	0.00	-	o	1.000	13	2.07	1.54	14	1.79	0.89	-	-	0.904
Habitat Means			8.90	3.70		4.20	2.00		-			0.00	0.00		0.00	0.00		o			1.05	0.75		1.55	0.85		-	
Fisher's		Power	---		Power-50%		---	P-value		0.055 y	Power	---		Power-50%		---	P-value		0.597	Power	0.221		Power-50%		0.036	P-value		0.128
Stouffer's		Power	0.036		Power-50%		0.054	P-value		0.277	Power	---		Power-50%		---	P-value		0.500	Power	0.288		Power-50%		0.015	P-value		0.142
P15.1C/P15.1	3	0	--	--	2	2.50	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.65	0.65	-		---
2397C/20809	3	12	16.05	6.34	11	15.13	6.14	-	-	0.890	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	2.72	1.84	11	1.37	0.69	-	-	0.643
Habitat Means			16.10	6.30		8.80	3.05		+			0.00	0.00		0.00	0.00		o			2.70	1.80		1.05	0.70		-	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Littorinidae																									
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
2397C/20809	1	14	0.00	0.00	12	0.00	0.00	-	o	1.000																	
Habitat Means			0.00	0.00		0.00	0.00		o																		
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
P15.1C/P15.1	2	5	0.00	0.00	9	0.00	0.00	-	o	1.000																	
2397C/20809	2	13	0.10	0.10	14	0.00	0.00	-	+	0.337																	
Habitat Means			0.05	0.05		0.00	0.00		+																		
Fisher's		Power	---		Power-50%		---	P-value		0.293	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.249	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
P15.1C/P15.1	3	0	--	--	2	0.00	0.00	-		---																	
2397C/20809	3	12	0.00	0.00	11	0.00	0.00	-	o	1.000																	
Habitat Means			0.00	0.00		0.00	0.00		o																		
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.54. Algal Percent Cover. Substrates. Prince William Sound. Estuarine. July 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Rock								Mud								Sand							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	5	8.50	8.50	9	44.03	17.04	-	-	0.161	5	6.00	6.00	9	54.44	17.25	-	-	0.078	5	0.00	0.00	9	0.00	0.00	-	o	1.000
2397C/20809	1	14	61.31	8.78	12	90.53	7.30	-	-	0.006	14	0.27	0.27	12	0.00	0.00	-	+	0.336	14	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			34.90	8.65		67.25	12.15		-			3.15	3.15		27.20	8.65		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.002	Power	0.344		Power-50%		---	P-value		0.144	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.002	Power	0.144		Power-50%		---	P-value		0.286	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	2	5	14.02	11.57	9	57.16	14.24	-	-	0.054	5	42.00	19.16	9	30.74	13.23	-	+	0.675	5	0.00	0.00	9	0.00	0.00	-	o	1.000
2397C/20809	2	13	35.73	10.06	14	86.61	3.46	-	-	0.000	13	1.83	1.54	14	0.00	0.00	-	+	0.201	13	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			24.85	10.85		71.90	8.85		-			21.90	10.35		15.35	6.60		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.000	Power	0.203		Power-50%		0.348	P-value		0.149	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.000	Power	0.260		Power-50%		0.419	P-value		0.115	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	3	0	--	--	2	80.65	15.65	-		---	0	--	--	2	13.75	13.75	-		---	0	--	--	2	0.00	0.00	-		---
2397C/20809	3	12	8.34	3.40	11	42.16	12.54	-	-	0.044	12	9.17	6.45	11	0.00	0.00	-	+	0.068	12	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			8.30	3.40		61.45	14.10		-			9.20	6.50		6.90	6.90		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Shell Fragments								Water								Zostera/Phyllospadix							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	5	0.00	0.00	9	0.00	0.00	-	o	1.000	5	0.00	0.00	9	0.00	0.00	-	o	1.000	5	0.00	0.00	9	0.00	0.00	-	o	1.000
2397C/20809	1	14	0.00	0.00	12	0.00	0.00	-	o	1.000	14	0.00	0.00	12	0.00	0.00	-	o	1.000	14	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	2	5	0.00	0.00	9	0.00	0.00	-	o	1.000	5	0.00	0.00	9	0.00	0.00	-	o	1.000	5	0.00	0.00	9	0.00	0.00	-	o	1.000
2397C/20809	2	13	0.00	0.00	14	0.00	0.00	-	o	1.000	13	0.00	0.00	14	0.00	0.00	-	o	1.000	13	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
2397C/20809	3	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	1.87	1.87	11	0.00	0.00	-	-	0.339
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			1.90	1.90		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	5	6.00	6.00	9	54.44	17.25	-	-	0.078	5	14.50	14.50	9	98.48	1.05	-	-	0.003									
2397C/20809	1	14	0.27	0.27	12	0.00	0.00	-	+	0.336	14	61.59	8.74	12	90.53	7.30	-	-	0.006									
Habitat Means			3.15	3.15		27.20	8.65		-			38.05	11.60		94.50	4.20		-										
Fisher's	Power		0.347		Power-50%		---	P-value		0.144	Power		---		Power-50%		---	P-value	0.000	Power		---		Power-50%		---	P-value	
Stouffer's	Power		0.149		Power-50%		---	P-value		0.286	Power		---		Power-50%		---	P-value	0.000	Power		---		Power-50%		---	P-value	
P15.1C/P15.1	2	5	42.00	19.16	9	30.74	13.23	-	+	0.675	5	56.00	22.93	9	87.90	5.74	-	-	0.309									
2397C/20809	2	13	1.83	1.54	14	0.00	0.00	-	+	0.201	13	37.55	10.00	14	86.61	3.46	-	-	0.000									
Habitat Means			21.90	10.35		15.35	6.60		+			46.80	16.45		87.25	4.60		-										
Fisher's	Power		0.204		Power-50%		0.363	P-value		0.149	Power		---		Power-50%		---	P-value	0.000	Power		---		Power-50%		---	P-value	
Stouffer's	Power		0.267		Power-50%		0.428	P-value		0.115	Power		---		Power-50%		---	P-value	0.000	Power		---		Power-50%		---	P-value	
P15.1C/P15.1	3	0	--	--	2	13.75	13.75	-		---	0	--	--	2	94.40	1.90	-		---									
2397C/20809	3	12	9.17	6.45	11	0.00	0.00	-	+	0.068	12	17.51	6.72	11	42.16	12.54	-	-	0.143									
Habitat Means			9.20	6.50		6.90	6.90		+			17.50	6.70		68.30	7.20		-										
Fisher's	Power		---		Power-50%		---	P-value		---	z Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	
Stouffer's	Power		---		Power-50%		---	P-value		---	Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.55. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Exposed Rocky. June 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Algal Diversity Index (a)								Algal Taxa Richness (b)								Total Algae							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1642C/833	1	11	0.03	0.02	8	0.10	0.06	-	-	0.248	11	0.64	0.24	8	1.25	0.56	-	-	0.282	11	8.87	3.93	8	17.20	10.95	-	-	0.581
4537C/979	1	12	0.11	0.04	10	0.10	0.05	-	+	0.755	12	1.42	0.26	10	0.90	0.35	-	+	0.240	12	47.61	9.48	10	8.13	4.96	-	+	0.003
Habitat Means			0.07	0.03		0.10	0.05		-			1.11	0.29		1.15	0.41		-			26.30	6.80		18.70	8.93		-	
Fisher's		Power	0.191		Power-50%		0.850	P-value		0.281	Power	0.090		Power-50%		0.956	P-value		0.464	Power	0.010		Power-50%		0.880	P-value		0.565xy
Stouffer's		Power	0.178		Power-50%		0.878	P-value		0.337	Power	0.036		Power-50%		0.970	P-value		0.676	Power	0.001		Power-50%		0.896	P-value		0.983
19C/19	2	9	0.17	0.06	9	0.28	0.09	-	-	0.283	9	1.67	0.41	9	2.89	0.63	-	-	0.124	9	19.19	8.36	9	44.18	12.21	-	-	0.082
1642C/833	2	12	0.20	0.07	8	0.35	0.11	-	-	0.234	12	2.33	0.74	8	3.38	0.84	-	-	0.374	12	34.91	9.48	8	45.79	8.60	-	-	0.474
4537C/979	2	9	0.26	0.06	10	0.00	0.00	-	+	0.004	9	2.89	0.72	10	0.50	0.17	-	+	0.010	9	74.03	10.50	10	4.63	2.53	-	+	0.000
Habitat Means			0.21	0.07		0.21	0.07		-			2.30	0.62		2.25	0.55		-			42.70	9.47		31.53	7.77		-	
Fisher's		Power	0.161		Power-50%		0.908	P-value		0.223x	Power	0.309		Power-50%		0.981	P-value		0.178xy	Power	0.250		Power-50%		0.820	P-value		0.159xy
Stouffer's		Power	0.005		Power-50%		0.931	P-value		0.938	Power	0.010		Power-50%		0.989	P-value		0.908	Power	0.005		Power-50%		0.863	P-value		0.993
19C/19	3	7	0.42	0.12	11	0.41	0.09	-	+	0.933	7	5.14	1.30	11	4.09	0.84	-	+	0.484	7	53.59	14.71	11	45.35	10.63	-	+	0.649
1642C/833	3	11	0.34	0.10	7	0.45	0.08	-	-	0.420	11	3.82	0.89	7	4.71	1.27	-	-	0.557	11	61.70	11.36	7	37.51	7.21	-	+	0.120
4537C/979	3	8	0.28	0.07	10	0.30	0.09	-	-	0.898	8	3.38	0.75	10	3.60	1.06	-	-	0.871	8	73.92	5.18	10	51.39	13.03	-	+	0.203
Habitat Means			0.35	0.09		0.39	0.09		-			4.11	0.98		4.14	1.05		-			63.07	10.43		44.77	10.27		+	
Fisher's		Power	0.182		Power-50%		0.838	P-value		0.426	Power	0.088		Power-50%		0.908	P-value		0.573	Power	---		Power-50%		---	P-value		0.053
Stouffer's		Power	0.161		Power-50%		0.842	P-value		0.319	Power	0.074		Power-50%		0.915	P-value		0.407	Power	---		Power-50%		---	P-value		0.027

(a) Modified Shannon Index.
(b) Taxa richness calculations are explained in the methods.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Invertebrates								Rock								Perennials (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	11	10.23	4.90	10	1.88	1.62	-	+	0.135	11	67.40	7.69	10	67.26	10.59	-	+	0.899	11	16.95	6.12	10	15.14	8.16	-	+	0.679
1642C/833	1	11	4.78	4.06	8	15.80	4.15	-	-	0.029	11	85.69	6.77	8	67.05	12.44	-	+	0.171	11	8.53	3.81	8	16.26	10.55	-	-	0.610
4537C/979	1	12	2.20	1.55	10	7.14	3.16	-	-	0.136	12	50.22	9.26	10	81.64	6.82	-	-	0.027	12	45.94	9.67	10	2.26	1.27	-	+	0.001
Habitat Means			5.73	3.53		8.27	3.00		-			67.77	7.93		72.00	9.93		+			23.80	6.53		11.23	6.70		+	
Fisher's		Power	---		Power-50%		---	P-value		0.030	Power	0.085		Power-50%		0.898	P-value		0.365xy	Power	---		Power-50%		---	P-value		0.003
Stouffer's		Power	---		OW -50%		---	P-value		0.028	Power	0.016		Power-50%		0.909	P-value		0.878	Power	---		Power-50%		---	P-value		0.003
19C/19	2	9	18.62	6.98	9	20.14	8.31	-	-	0.809	9	62.23	9.45	9	35.71	10.80	-	+	0.058	9	15.43	8.37	9	31.97	10.39	-	-	0.138
1642C/833	2	12	8.25	5.19	8	27.83	8.69	-	-	0.026	12	56.47	10.47	8	25.16	11.38	-	+	0.046	12	29.80	8.85	8	30.79	6.25	-	-	0.839
4537C/979	2	9	1.68	1.37	10	5.76	2.10	-	-	0.083	9	24.19	10.46	10	89.64	2.53	-	-	0.000	9	69.74	10.39	10	3.38	2.51	-	+	0.000
Habitat Means			9.53	4.53		17.90	6.37		-			47.63	10.17		50.17	8.23		+			38.30	9.23		22.07	6.40		-	
Fisher's		Power	---		Power-50%		---	P-value		0.010	Power	---		Power-50%		---	P-value		0.024xy	Power	0.140		Power-50%		0.890	P-value		0.313xy
Stouffer's		Power	---		Power-50%		---	P-value		0.005	Power	0.038		Power-50%		0.713	P-value		0.965	Power	0.003		Power-50%		0.929	P-value		0.997
19C/19	3	7	5.90	2.76	11	14.34	5.25	-	-	0.313	7	40.54	16.38	11	40.36	9.59	-	+	0.993	7	26.44	12.37	11	24.21	7.06	-	+	0.923
1642C/833	3	11	6.36	3.22	7	30.03	14.31	-	-	0.060	11	31.83	10.61	7	31.97	9.68	-	-	0.902	11	37.16	7.92	7	11.09	4.30	-	+	0.042
4537C/979	3	8	0.79	0.41	10	0.25	0.25	-	+	0.218	8	17.98	6.32	10	47.39	13.28	-	-	0.125	8	48.60	9.96	10	29.64	8.78	-	+	0.128
Habitat Means			4.37	2.13		14.87	6.63		-			30.10	11.10		39.93	10.87		-			37.40	10.10		21.63	6.73		+	
Fisher's		Power	---		Power-50%		---	P-value		0.090	Power	0.209		Power-50%		0.548	P-value		0.203	Power	---		Power-50%		---	P-value		0.022
Stouffer's		Power	0.138		Power-50%		0.748	P-value		0.447	Power	---		Power-50%		---	P-value		0.090	Power	---		Power-50%		---	P-value		0.011

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.55. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Exposed Rocky. June 1991. Undisturbed. (Continued.)

		Annuals (A)									Ephemerals (AE)															
Site Pair	Wtd	N	C	SE	N	C	SE	CV	D	P	N	C	SE	N	C	SE	CV	D	P	N	C	SE	N	C	SE	CV	D	P
19C/19	1	12	3.40	4.19	10	13.85	8.58				11	0.12	0.12	8	0.00	0.00	-	+	0.341									
1642C/833	1	12	0.35	0.25	8	0.95	0.52	-	-	0.305	11	0.12	0.12	8	0.00	0.00	-	+	0.341									
4537C/979	1	12	1.67	1.45	10	5.89	4.55	-	-	0.298	12	0.42	0.42	10	2.00	2.00	-	-	0.563									
Habitat Means			2.53	2.00		7.50	4.47		-			1.63	1.57		5.87	3.43		-										
Fisher's		Power	---		Power-50%		---	P-value		0.084	Power	0.020		Power-50%		0.033	P-value		0.281	Power	---		Power-50%	---				
Stouffer's		Power	---		Power-50%		---	P-value		0.053	Power	0.020		Power-50%		0.142	P-value		0.361	Power	---		Power-50%	---				
19C/19	2	9	3.76	2.43	9	12.23	7.00	-	-	0.250	9	0.00	0.00	9	6.68	4.32	-	-	0.061									
1642C/833	2	12	5.12	2.41	8	15.01	6.09	-	-	0.131	12	2.61	1.89	8	0.16	0.16	-	-	0.296									
4537C/979	2	9	4.32	3.16	10	1.25	1.00	-	+	0.328	9	1.11	1.11	10	0.00	0.00	-	-	0.347									
Habitat Means			4.40	2.67		9.50	4.70		-			1.23	1.00		2.30	1.50		+										
Fisher's		Power	0.239		Power-50%		0.626	P-value		0.126	Power	0.002		Power-50%		0.029	P-value		0.286xy	Power	---		Power-50%	---				
Stouffer's		Power	0.176		Power-50%		0.696	P-value		0.419	Power	0.000		Power-50%		0.083	P-value		0.212	Power	---		Power-50%	---				
19C/19	3	7	27.17	8.59	11	21.15	5.46	-	+	0.459	7	6.44	2.57	11	13.54	3.77	-	-	0.362									
1642C/833	3	11	24.55	9.04	7	26.44	6.94	-	-	0.626	11	15.69	6.57	7	6.63	3.68	-	+	0.447									
4537C/979	3	8	25.33	9.87	10	21.77	9.87	-	+	0.787	8	20.64	10.35	10	10.26	5.21	-	+	0.608									
Habitat Means			25.70	9.17		23.13	7.43		+			14.23	6.53		10.13	4.23		+										
Fisher's		Power	0.065		Power-50%		0.568	P-value		0.474	Power	0.060		Power-50%		0.562	P-value		0.449	Power	---		Power-50%	---				
Stouffer's		Power	0.054		Power-50%		0.577	P-value		0.426	Power	0.041		Power-50%		0.653	P-value		0.289	Power	---		Power-50%	---				

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.56. Algal Percent Cover. Chlorophyta. Prince William Sound. Exposed Rocky. June 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group: Bladed Greens								Bladed Greens (AE) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	11	4.44	4.19	10	8.76	5.30	-	-	0.422	11	0.00	0.00	10	1.38	1.24	-	-	0.227	11	0.00	0.00	10	1.38	1.24	-	-	0.227
1642C/833	1	11	0.12	0.12	8	0.00	0.00	-	+	0.341	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	0.00	0.00	8	0.00	0.00	-	o	1.000
4537C/979	1	12	0.00	0.00	10	2.63	2.63	-	-	0.343	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			1.50	1.43		3.80	2.63		-			0.00	0.00		0.47	0.40		-			0.00	0.00		0.47	0.40		-	
Fisher's		Power	0.012		Power-50%		0.001	P-value		0.320	Power	0.000		Power-50%		---	P-value		0.309	Power	0.000		Power-50%		---	P-value		0.309
Stouffer's		Power	0.014		Power-50%		0.000	P-value		0.292	Power	0.000		Power-50%		---	P-value		0.376	Power	0.000		Power-50%		---	P-value		0.376
19C/19	2	9	0.00	0.00	9	3.76	2.64	-	-	0.120	9	0.00	0.00	9	2.64	1.62	-	-	0.101	9	0.00	0.00	9	2.64	1.62	-	-	0.101
1642C/833	2	12	1.88	1.35	8	0.48	0.33	-	+	0.670	12	0.11	0.11	8	0.16	0.16	-	-	0.776	12	0.11	0.11	8	0.16	0.16	-	-	0.776
4537C/979	2	9	1.26	1.26	10	0.00	0.00	-	+	0.347	9	0.83	0.83	10	0.00	0.00	-	-	0.347	9	0.83	0.83	10	0.00	0.00	-	-	0.347
Habitat Means			1.07	0.90		1.43	0.97		+			0.30	0.30		0.93	0.60		-			0.30	0.30		0.93	0.60		-	
Fisher's		Power	0.003		Power-50%		0.031	P-value		0.444 y	Power	0.042		Power-50%		---	P-value		0.221	Power	0.042		Power-50%		---	P-value		0.221
Stouffer's		Power	0.001		Power-50%		0.082	P-value		0.279	Power	0.036		Power-50%		---	P-value		0.589	Power	0.040		Power-50%		---	P-value		0.589
19C/19	3	7	6.80	2.50	11	8.88	3.38	-	-	0.988	7	6.09	2.38	11	7.85	3.11	-	-	0.967	7	6.09	2.38	11	7.85	3.11	-	-	0.967
1642C/833	3	11	8.42	4.41	7	11.44	5.42	-	-	0.586	11	5.35	3.58	7	5.56	3.80	-	-	0.969	11	5.35	3.58	7	5.56	3.80	-	-	0.969
4537C/979	3	8	18.60	9.65	10	9.63	5.37	-	+	0.539	8	18.45	9.59	10	9.13	5.30	-	-	0.484	8	18.45	9.59	10	9.13	5.30	-	-	0.484
Habitat Means			11.27	5.53		9.97	4.73		-			10.00	5.20		7.53	4.07		-			10.00	5.20		7.53	4.07		-	
Fisher's		Power	0.058		Power-50%		0.704	P-value		0.610 y	Power	0.020		Power-50%		0.693	P-value		0.750 y	Power	0.020		Power-50%		0.704	P-value		0.750 y
Stouffer's		Power	0.046		Power-50%		0.777	P-value		0.599	Power	0.028		Power-50%		0.787	P-value		0.711	Power	0.023		Power-50%		0.768	P-value		0.711

(a) Kornmannia, Monostroma, Ulva and Ulvaria.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Fine Filamentous Greens								Acrosiphonia sp. (A)								Chaetomorpha/Rhizoclonium (A) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	11	4.44	4.19	10	7.38	4.44	-	-	0.536	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
1642C/833	1	11	0.12	0.12	8	0.00	0.00	-	+	0.341	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	0.00	0.00	8	0.00	0.00	-	o	1.000
4537C/979	1	12	0.00	0.00	10	2.63	2.63	-	-	0.343	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	2.63	2.63	-	-	0.343
Habitat Means			1.50	1.43		3.33	2.33		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.87	0.87		-	
Fisher's		Power	0.009		Power-50%		0.004	P-value		0.366	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.391
Stouffer's		Power	0.013		Power-50%		0.000	P-value		0.309	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.214
19C/19	2	9	0.00	0.00	9	1.11	1.11	-	-	0.347	9	0.00	0.00	9	0.00	0.00	-	o	1.000	9	0.00	0.00	9	0.00	0.00	-	o	1.000
1642C/833	2	12	1.78	1.26	8	0.31	0.31	-	+	0.485	12	0.00	0.00	8	0.31	0.31	-	-	0.351	12	0.00	0.00	8	0.00	0.00	-	o	1.000
4537C/979	2	9	0.42	0.42	10	0.00	0.00	-	+	0.347	9	0.42	0.42	10	0.00	0.00	-	+	0.347	9	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.73	0.57		0.47	0.47		+			0.13	0.13		0.10	0.10		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.020		Power-50%		0.052	P-value		0.347	Power	---		Power-50%		---	P-value		0.509	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.024		Power-50%		0.100	P-value		0.190	Power	---		Power-50%		---	P-value		0.367	Power	---		Power-50%		---	P-value		0.500
19C/19	3	7	0.73	0.38	11	1.03	0.60	-	-	0.925	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.36	0.36	11	0.00	0.00	-	+	0.356
1642C/833	3	11	3.07	2.70	7	5.90	3.83	-	-	0.421	11	0.00	0.00	7	0.00	0.00	-	o	1.000	11	1.59	1.59	7	5.90	3.83	-	-	0.176
4537C/979	3	8	0.16	0.16	10	0.38	0.27	-	-	0.600	8	0.16	0.16	10	0.00	0.00	-	+	0.351	8	0.00	0.00	10	0.13	0.13	-	-	0.343
Habitat Means			1.33	1.10		2.43	1.57		-			0.07	0.07		0.00	0.00		+			0.67	0.67		2.00	1.30		-	
Fisher's		Power	0.189		Power-50%		0.385	P-value		0.315	Power	---		Power-50%		---	P-value		0.395	Power	0.062		Power-50%		---	P-value		0.186
Stouffer's		Power	0.224		Power-50%		0.402	P-value		0.198	Power	---		Power-50%		---	P-value		0.217	Power	0.046		Power-50%		---	P-value		0.115

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.56. Algal Percent Cover. Chlorophyta. Prince William Sound. Exposed Rocky. June 1991. Undisturbed. (Continued.)

		Cladophora sp. (AE)									Ulothrix sp. (AE)									Urospora sp. (AE)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	4.44	4.19	10	7.38	4.44	-	-	0.536
1642C/833	1	11	0.12	0.12	8	0.00	0.00	-	+	0.341	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	0.00	0.00	8	0.00	0.00	-	o	1.000
4537C/979	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.03	0.03		0.00	0.00		·			0.00	0.00		0.00	0.00		o			1.47	1.40		2.47	1.47		-	
Fisher's		Power	---		Power-50%		---	P-value		0.389	Power	---		Power-50%		---	P-value		0.655	Power	0.001		Power-50%		0.000	P-value		0.493
Stouffer's		Power	---		Power-50%		---	P-value		0.324	Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.000	P-value		0.436
19C/19	2	9	0.00	0.00	9	0.00	0.00	-	o	1.000	9	0.00	0.00	9	0.00	0.00	-	o	1.000	9	0.00	0.00	9	1.11	1.11	-	-	0.347
1642C/833	2	12	1.78	1.26	8	0.00	0.00	-	+	0.172	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000
4537C/979	2	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.60	0.43		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.37	0.37		-	
Fisher's		Power	0.005		Power-50%		0.003	P-value		0.262	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.393
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.256	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.403
19C/19	3	7	0.37	0.24	11	0.57	0.46	-	-	0.958	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.45	0.45	-	-	0.341
1642C/833	3	11	1.48	1.13	7	0.00	0.00	-	+	0.127	11	0.00	0.00	7	0.00	0.00	-	o	1.000	11	0.00	0.00	7	0.00	0.00	-	o	1.000
4537C/979	3	8	0.00	0.00	10	0.26	0.17	-	-	0.168	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.63	0.43		0.30	0.23		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.17	0.17		-	
Fisher's		Power	0.008		Power-50%		0.204	P-value		0.364 y	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.389
Stouffer's		Power	0.001		Power-50%		0.040	P-value		0.331	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.402

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Tubular and Saccate Greens									Blidingia/Enteromorpha (AE) (a)																	
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000									
1642C/833	1	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	0.00	0.00	8	0.00	0.00	-	o	1.000									
4537C/979	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
19C/19	2	9	0.00	0.00	9	0.00	0.00	-	o	1.000	9	0.00	0.00	9	0.00	0.00	-	o	1.000									
1642C/833	2	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000									
4537C/979	2	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
19C/19	3	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.00	0.00	-	o	1.000									
1642C/833	3	11	0.00	0.00	7	0.00	0.00	-	o	1.000	11	0.00	0.00	7	0.00	0.00	-	o	1.000									
4537C/979	3	8	0.00	0.00	10	0.13	0.13	-	-	0.343	8	0.00	0.00	10	0.13	0.13	-	-	0.343									
Habitat Means			0.00	0.00		0.03	0.03		-			0.00	0.00		0.03	0.03		-										
Fisher's		Power	---		Power-50%		---	P-value		0.391	Power	---		Power-50%		---	P-value		0.391	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.214	Power	---		Power-50%		---	P-value		0.214	Power	---		Power-50%		---	P-value		

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.57. Algal Percent Cover. Phaeophyta. Prince William Sound. Exposed Rocky. June 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta							Morphological Group: Bladed Browns							Alaria sp. (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	11	16.26	6.05	10	22.01	9.79	-	-	0.683	11	15.69	5.77	10	15.14	8.16	-	+	0.873	11	0.00	0.00	10	0.00	0.00	-	o	1.000
1642C/833	1	11	8.53	3.81	8	12.98	9.97	-	-	0.905	11	8.53	3.81	8	12.81	9.99	-	-	0.981	11	0.00	0.00	8	0.00	0.00	-	o	1.000
4537C/979	1	12	38.03	9.94	10	2.14	0.82	-	-	0.003	12	36.36	10.02	10	0.88	0.59	-	+	0.002	12	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			20.93	6.60		12.37	6.87		-			20.20	6.53		9.60	6.27		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.002			Power-50%	0.732	P-value		0.712xy	Power	---			Power-50%	---	P-value		0.011	Power	---			Power-50%	---	P-value		0.655
Stouffer's		Power	0.000			Power-50%	0.764	P-value		0.990	Power	---			Power-50%	---	P-value		0.005	Power	---			Power-50%	---	P-value		0.500
19C/19	2	9	12.64	6.88	9	31.27	10.23	-	-	0.077	9	9.31	6.65	9	28.21	10.47	-	-	0.061	9	0.00	0.00	9	0.00	0.00	-	o	1.000
1642C/833	2	12	26.88	8.85	8	14.70	4.54	-	+	0.346	12	25.84	8.78	8	14.23	4.47	-	+	0.362	12	0.00	0.00	8	0.00	0.00	-	o	1.000
4537C/979	2	9	35.57	11.15	10	0.13	0.13	-	+	0.005	9	35.01	11.15	10	0.13	0.13	-	+	0.006	9	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			25.03	9.00		15.37	4.93		+			23.37	8.90		14.27	5.03		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.017x	Power	---			Power-50%	---	P-value		0.019x	Power	---			Power-50%	---	P-value		0.655
Stouffer's		Power	---			Power-50%	---	P-value		0.010	Power	---			Power-50%	---	P-value		0.012	Power	---			Power-50%	---	P-value		0.500
19C/19	3	7	28.59	11.59	11	27.52	7.93	-	+	0.862	7	28.40	11.60	11	21.04	6.25	-	+	0.824	7	5.19	3.79	11	0.00	0.00	-	-	0.188
1642C/833	3	11	37.85	9.41	7	7.14	3.38	-	+	0.017	11	29.90	8.28	7	6.07	3.44	-	+	0.024	11	0.00	0.00	7	0.19	0.19	-	-	0.356
4537C/979	3	8	29.09	9.38	10	24.50	7.02	-	+	0.673	8	26.21	9.81	10	20.63	6.38	-	+	0.598	8	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			31.87	10.13		19.70	6.10		+			28.13	9.90		15.90	5.37		+			1.73	1.27		0.07	0.07		-	
Fisher's		Power	---			Power-50%	---	P-value		0.038	Power	---			Power-50%	---	P-value		0.043	Power	0.002			Power-50%	0.013	P-value		0.369
Stouffer's		Power	---			Power-50%	---	P-value		0.062	Power	---			Power-50%	---	P-value		0.057	Power	0.000			Power-50%	0.000	P-value		0.540

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Fucus gardneri (P)							Adult Fucus gardneri (P) (> 2cm)							Juvenile Fucus gardneri (P) (<= 2cm)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	11	15.69	5.77	10	15.14	8.16	-	+	0.873	11	15.24	5.64	10	14.76	8.23	-	+	0.799	11	0.45	0.45	10	0.38	0.38	-	-	0.976
1642C/833	1	11	8.53	3.81	8	12.81	9.99	-	-	0.981	11	7.39	3.88	8	12.81	9.99	-	-	0.808	11	1.14	0.91	8	0.00	0.00	-	-	0.193
4537C/979	1	12	36.36	10.02	10	0.88	0.59	-	+	0.002	12	36.15	9.96	10	0.63	0.43	-	+	0.002	12	0.21	0.21	10	0.25	0.25	-	-	0.899
Habitat Means			20.20	6.53		9.60	6.27		+			19.60	6.50		9.40	6.20		+			0.60	0.53		0.23	0.23		+	
Fisher's		Power	---			Power-50%	---	P-value		0.011	Power	---			Power-50%	---	P-value		0.011	Power	0.054			Power-50%	0.071	P-value		0.294
Stouffer's		Power	---			Power-50%	---	P-value		0.005	Power	---			Power-50%	---	P-value		0.006	Power	0.116			Power-50%	0.153	P-value		0.300
19C/19	2	9	9.31	6.65	9	28.21	10.47	-	-	0.061	9	9.31	6.65	9	28.08	10.51	-	-	0.066	9	0.00	0.00	9	0.14	0.14	-	-	0.347
1642C/833	2	12	25.84	8.78	8	14.23	4.47	-	+	0.362	12	25.01	8.41	8	14.23	4.47	-	+	0.383	12	0.84	0.62	8	0.00	0.00	-	-	0.118
4537C/979	2	9	35.01	11.15	10	0.13	0.13	-	+	0.006	9	35.01	11.15	10	0.13	0.13	-	+	0.006	9	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			23.37	8.90		14.17	5.03		+			23.10	8.77		14.13	5.03		+			0.27	0.20		0.03	0.03		+	
Fisher's		Power	---			Power-50%	---	P-value		0.019x	Power	---			Power-50%	---	P-value		0.020x	Power	0.003			Power-50%	0.004	P-value		0.284
Stouffer's		Power	---			Power-50%	---	P-value		0.012	Power	---			Power-50%	---	P-value		0.012	Power	0.000			Power-50%	0.000	P-value		0.307
19C/19	3	7	23.21	11.72	11	21.04	6.25	-	+	0.897	7	23.21	11.72	11	20.58	6.11	-	+	0.919	7	0.00	0.00	11	0.46	0.35	-	-	0.183
1642C/833	3	11	29.90	8.28	7	5.90	3.29	-	+	0.023	11	29.67	8.29	7	5.73	3.30	-	+	0.022	11	0.23	0.23	7	0.19	0.19	-	+	0.934
4537C/979	3	8	26.11	9.81	10	20.63	6.38	-	+	0.598	8	26.11	9.81	10	20.63	6.38	-	+	0.598	8	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			26.40	9.93		15.83	5.33		-			26.33	9.93		15.63	5.27		+			0.07	0.07		0.23	0.20		-	
Fisher's		Power	---			Power-50%	---	P-value		0.044	Power	---			Power-50%	---	P-value		0.044	Power	0.019			Power-50%	---	P-value		0.283
Stouffer's		Power	---			Power-50%	---	P-value		0.059	Power	---			Power-50%	---	P-value		0.059	Power	0.039			Power-50%	---	P-value		0.379

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.57. Algal Percent Cover. Phaeophyta. Prince William Sound. Exposed Rocky. June 1991. Undisturbed. (Continued.)

Site Pair	Mvd	Fucus Stipes (P) (a)								Morphological Group: Coarse Filamentous Browns								Analipus japonicus (P)							
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
1642C/833	1	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	0.00	0.00	8	0.16	0.16	-	-	0.351	11	0.00	0.00	8	0.00	0.00	-	o	1.000
4537C/979	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	1.25	1.04	10	1.13	0.76	-	+	0.921	12	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.03	0.03		+			0.63	0.47		0.43	0.33		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.391	Power	0.016		Power-50%		0.062	P-value		0.333	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.402	Power	0.021		Power-50%		0.175	P-value		0.502	Power	---		Power-50%		---	P-value		0.500
19C/19	2	9	0.00	0.00	9	0.00	0.00	-	o	1.000	9	2.78	2.48	9	0.14	0.14	-	+	0.321	9	0.00	0.00	9	0.00	0.00	-	o	1.000
1642C/833	2	12	0.42	0.28	8	0.00	0.00	-	+	0.166	12	0.32	0.23	8	0.48	0.48	-	-	0.949	12	0.00	0.00	8	0.00	0.00	-	o	1.000
4537C/979	2	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.14	0.14	10	0.00	0.00	-	+	0.347	9	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.13	0.10		0.00	0.00		+			1.07	0.93		0.20	0.20		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.008		Power-50%		0.004	P-value		0.257	Power	0.104		Power-50%		0.155	P-value		0.207	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.002		Power-50%		0.000	P-value		0.253	Power	0.218		Power-50%		0.274	P-value		0.155	Power	---		Power-50%		---	P-value		0.500
19C/19	3	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	1.83	0.82	-	-	0.042	7	0.00	0.00	11	0.00	0.00	-	o	1.000
1642C/833	3	11	0.12	0.12	7	0.00	0.00	-	+	0.341	11	0.57	0.46	7	1.07	0.74	-	-	0.555	11	0.00	0.00	7	0.00	0.00	-	o	1.000
4537C/979	3	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.79	0.62	10	3.13	1.68	-	-	0.312	8	0.63	0.63	10	0.00	0.00	-	-	0.351
Habitat Means			0.03	0.03		0.00	0.00		-			0.47	0.37		2.00	1.07		-			0.20	0.20		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.389	Power	---		Power-50%		---	P-value		0.029	Power	---		Power-50%		---	P-value		0.395
Stouffer's		Power	---		Power-50%		---	P-value		0.324	Power	---		Power-50%		---	P-value		0.048	Power	---		Power-50%		---	P-value		0.217

(a) Dead fucus plants or stipes without blades.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Dictyosiphon sp. (A)									Myelophycus/Scytosiphon (A) (a)									Morphological Group: Fine Filamentous Browns								
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	11	0.35	0.35	10	0.00	0.00	-	+	0.341	11	0.23	0.23	10	0.00	0.00	-	-	0.341	11	0.00	0.00	10	6.88	4.60	-	-	0.168
1642C/833	1	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	0.00	0.00	8	0.16	0.16	-	-	0.351	11	0.00	0.00	8	0.00	0.00	-	o	1.000
4537C/979	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	1.25	1.04	10	1.13	0.76	-	+	0.921	12	0.42	0.42	10	0.00	0.00	-	-	0.339
Habitat Means			0.13	0.13		0.00	0.00		+			0.50	0.40		0.43	0.33		+			0.13	0.13		2.30	1.53		-	
Fisher's		Power	---		Power-50%		---	P-value		0.389	Power	0.003		Power-50%		0.009	P-value		0.484	Power	0.008		Power-50%		---	P-value		0.349
Stouffer's		Power	---		Power-50%		---	P-value		0.402	Power	0.006		Power-50%		0.054	P-value		0.546	Power	0.001		Power-50%		---	P-value		0.671
19C/19	2	9	0.00	0.00	9	0.00	0.00	-	o	1.000	9	2.78	2.48	9	0.14	0.14	-	+	0.321	9	0.00	0.00	9	2.92	1.72	-	-	0.064
1642C/833	2	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.32	0.23	8	0.48	0.48	-	-	0.949	12	0.73	0.55	8	0.00	0.00	-	+	0.178
4537C/979	2	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.14	0.14	10	0.00	0.00	-	+	0.347	9	0.28	0.28	10	0.00	0.00	-	+	0.347
Habitat Means			0.00	0.00		0.00	0.00		o			1.07	0.93		0.20	0.20		+			0.33	0.30		0.97	0.57		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.108		Power-50%		0.158	P-value		0.207	Power	0.007		Power-50%		0.026	P-value		0.210xy
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.224		Power-50%		0.274	P-value		0.155	Power	0.000		Power-50%		0.062	P-value		0.171
19C/19	3	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	1.83	0.82	-	-	0.042	7	0.00	0.00	11	4.67	1.95	-	-	0.015
1642C/833	3	11	0.00	0.00	7	0.00	0.00	-	o	1.000	11	0.57	0.46	7	1.07	0.74	-	-	0.555	11	7.40	4.66	7	0.00	0.00	-	+	0.058
4537C/979	3	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.16	0.16	10	3.13	1.68	-	-	0.100	8	2.19	2.19	10	0.75	0.53	-	+	0.786
Habitat Means			0.00	0.00		0.00	0.00		o			0.27	0.23		2.00	1.07		-			3.20	2.30		1.83	0.83		+	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.012	Power	0.079		Power-50%		0.032	P-value		0.176x
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.014	Power	0.001		Power-50%		0.059	P-value		0.309

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.57. Algal Percent Cover. Phaeophyta. Prince William Sound. Exposed Rocky. June 1991. Undisturbed. (Continued.)

		Fine Filamentous Browns (AE) (b)									Morphological Group: Saccate Browns									Leathesia/Colpomenia (A) (a)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	11	0.00	0.00	10	6.88	4.60	-	-	0.168	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
1642C/833	1	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	0.00	0.00	8	0.00	0.00	-	o	1.000
4537C/979	1	12	0.42	0.42	10	0.00	0.00	-	+	0.339	12	0.00	0.00	10	0.13	0.13	-	-	0.343	12	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.13	0.13		2.30	1.53		+			0.00	0.00		0.03	0.03		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.007		Power-50%		---	P-value		0.349	Power	---		Power-50%		---	P-value		0.391	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.000		Power-50%		---	P-value		0.671	Power	---		Power-50%		---	P-value		0.214	Power	---		Power-50%		---	P-value		0.500
19C/19	2	9	0.00	0.00	9	2.92	1.72	-	-	0.064	9	0.56	0.56	9	0.00	0.00	-	-	0.347	9	0.56	0.56	9	0.00	0.00	-	-	0.347
1642C/833	2	12	0.73	0.55	8	0.00	0.00	-	+	0.178	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000
4537C/979	2	9	0.28	0.28	10	0.00	0.00	-	+	0.347	9	0.14	0.14	10	0.00	0.00	-	-	0.347	9	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.33	0.30		0.97	0.57		+			0.23	0.23		0.00	0.00		-			0.20	0.20		0.00	0.00		-	
Fisher's		Power	0.005		Power-50%		0.037	P-value		0.210xy	Power	---		Power-50%		---	P-value		0.210	Power	---		Power-50%		---	P-value		0.393
Stouffer's		Power	0.000		Power-50%		0.091	P-value		0.171	Power	---		Power-50%		---	P-value		0.151	Power	---		Power-50%		---	P-value		0.403
19C/19	3	7	0.00	0.00	11	4.67	1.95	-	-	0.015	7	0.19	0.19	11	0.00	0.00	-	-	0.356	7	0.19	0.19	11	0.00	0.00	-	-	0.356
1642C/833	3	11	7.40	4.66	7	0.00	0.00	-	+	0.058	11	0.00	0.00	7	0.00	0.00	-	o	1.000	11	0.00	0.00	7	0.00	0.00	-	o	1.000
4537C/979	3	8	2.19	2.19	10	0.75	0.53	-	+	0.786	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			3.20	2.30		1.83	0.83		-			0.07	0.07		0.00	0.00		+			0.07	0.07		0.00	0.00		+	
Fisher's		Power	0.079		Power-50%		0.027	P-value		0.176x	Power	---		Power-50%		---	P-value		0.399	Power	---		Power-50%		---	P-value		0.399
Stouffer's		Power	0.001		Power-50%		0.041	P-value		0.309	Power	---		Power-50%		---	P-value		0.405	Power	---		Power-50%		---	P-value		0.405

(b) Blachista, Ectocarpus and Pilayella.

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Soranthera ulvoidea (A)									Morphological Group: Crustose Browns									Ralfsia/Petroderma (P) (a)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
1642C/833	1	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	0.00	0.00	8	0.00	0.00	-	o	1.000
4537C/979	1	12	0.00	0.00	10	0.13	0.13	-	-	0.343	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.03	0.03		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.391	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.214	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	9	0.00	0.00	9	0.00	0.00	-	o	1.000	9	0.00	0.00	9	0.00	0.00	-	o	1.000	9	0.00	0.00	9	0.00	0.00	-	o	1.000
1642C/833	2	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000
4537C/979	2	9	0.14	0.14	10	0.00	0.00	-	-	0.347	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.03	0.03		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.393	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.215	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	3	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.00	0.00	-	o	1.000
1642C/833	3	11	0.00	0.00	7	0.00	0.00	-	o	1.000	11	0.00	0.00	7	0.00	0.00	-	o	1.000	11	0.00	0.00	7	0.00	0.00	-	o	1.000
4537C/979	3	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.58. Algal Percent Cover. Rhodophyta. Prince William Sound. Exposed Rocky. June 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group: Bladed Reds								Bangia sp. (AE)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	11	1.71	1.17	10	0.00	0.00	-	+	0.115	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
1642C/833	1	11	0.23	0.23	8	4.23	2.70	-	-	0.097	11	0.00	0.00	8	0.16	0.16	-	-	0.351	11	0.00	0.00	8	0.00	0.00	-	o	1.000
4537C/979	1	12	9.59	3.86	10	3.38	2.22	-	+	0.265	12	0.00	0.00	10	2.00	2.00	-	-	0.343	12	0.00	0.00	10	2.00	2.00	-	-	0.343
Habitat Means			3.83	1.77		2.53	1.63		+			0.00	0.00		0.73	0.73		-			0.00	0.00		0.67	0.67		-	
Fisher's		Power	0.130		Power-50%		0.508	P-value		0.131x	Power	---		Power-50%		---	P-value		0.211	Power	---		Power-50%		---	P-value		0.391
Stouffer's		Power	0.027		Power-50%		0.649	P-value		0.291	Power	---		Power-50%		---	P-value		0.107	Power	---		Power-50%		---	P-value		0.214
19C/19	2	9	6.54	2.92	9	9.18	6.25	-	-	0.953	9	0.00	0.00	9	4.31	4.31	-	-	0.347	9	0.00	0.00	9	0.00	0.00	-	o	1.000
1642C/833	2	12	6.15	2.33	8	30.64	6.57	-	-	0.002	12	0.00	0.00	8	3.13	3.13	-	-	0.351	12	0.00	0.00	8	0.00	0.00	-	o	1.000
4537C/979	2	9	37.23	11.36	10	4.50	2.55	-	+	0.005	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			16.63	5.53		14.77	5.17		-			0.00	0.00		2.47	2.47		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.019xy	Power	---		Power-50%		---	P-value		0.212	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.020		Power-50%		0.616	P-value		0.809	Power	---		Power-50%		---	P-value		0.244	Power	---		Power-50%		---	P-value		0.500
19C/19	3	7	18.24	4.16	11	8.99	3.25	-	+	0.076	7	4.84	2.96	11	2.39	1.17	-	+	0.506	7	0.00	0.00	11	0.00	0.00	-	o	1.000
1642C/833	3	11	15.46	5.14	7	18.96	3.82	-	-	0.333	11	2.05	1.50	7	4.30	1.39	-	-	0.125	11	1.48	1.48	7	1.07	1.07	-	+	0.975
4537C/979	3	8	26.26	9.82	10	17.27	6.81	-	+	0.404	8	0.48	0.48	10	8.38	5.17	-	-	0.167	8	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			20.00	6.37		15.10	4.63		+			2.47	1.67		5.03	2.60		-			0.50	0.50		0.37	0.37		+	
Fisher's		Power	0.261		Power-50%		0.716	P-value		0.121	Power	---		Power-50%		---	P-value		0.085	Power	---		Power-50%		---	P-value		0.648
Stouffer's		Power	0.164		Power-50%		0.703	P-value		0.243	Power	---		Power-50%		---	P-value		0.043	Power	---		Power-50%		---	P-value		0.494

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Gigartinaceae Group (P) (a)								Palmaria spp. (A)								Phycodrys riggii (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
1642C/833	1	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	0.00	0.00	8	0.00	0.00	-	o	1.000
4537C/979	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	9	0.00	0.00	9	0.00	0.00	-	o	1.000	9	0.00	0.00	9	4.31	4.31	-	-	0.347	9	0.00	0.00	9	0.00	0.00	-	o	1.000
1642C/833	2	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	3.13	3.13	-	-	0.351	12	0.00	0.00	8	0.00	0.00	-	o	1.000
4537C/979	2	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		2.47	2.47		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.212	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.244	Power	---		Power-50%		---	P-value		0.500
19C/19	3	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.37	0.24	11	0.23	0.23	-	+	0.471	7	0.00	0.00	11	0.00	0.00	-	o	1.000
1642C/833	3	11	0.00	0.00	7	0.54	0.54	-	-	0.356	11	0.00	0.00	7	1.61	1.05	-	-	0.173	11	0.57	0.46	7	0.00	0.00	-	+	0.191
4537C/979	3	8	0.48	0.48	10	0.88	0.88	-	-	0.891	8	0.00	0.00	10	7.51	5.21	-	-	0.141	8	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.17	0.17		0.47	0.47		-			0.13	0.07		3.10	2.17		-			0.20	0.17		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.374	Power	---		Power-50%		---	P-value		0.097	Power	0.000		Power-50%		0.000	P-value		0.280
Stouffer's		Power	---		Power-50%		---	P-value		0.289	Power	---		Power-50%		---	P-value		0.045	Power	0.000		Power-50%		0.000	P-value		0.266

(a) Chondrus, Iridaea, Mastocarpus and Rhodoglossum.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.58. Algal Percent Cover. Rhodophyta. Prince William Sound. Exposed Rocky. June 1991. Undisturbed. (Continued.)

		Porphyra sp. (A)									Tokidadendron kurilensis (A)									Morphological Group: Coarse Filamentous Reds								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.80	0.68	10	0.00	0.00	-	+	0.206
1642C/833	1	11	0.00	0.00	8	0.16	0.16	-	-	0.351	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	0.23	0.23	8	3.91	2.73	-	-	0.121
4537C/979	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	9.59	3.86	10	1.38	1.24	-	-	0.095
Habitat Means			0.00	0.00		0.07	0.07		-			0.00	0.00		0.00	0.00		o			3.53	1.60		1.77	1.30		+	
Fisher's		Power	---		Power-50%		---	P-value		0.395	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.096
Stouffer's		Power	---		Power-50%		---	P-value		0.327	Power	---		Power-50%		---	P-value		0.500	Power	0.043		Power-50%		0.564	P-value		0.162
19C/19	2	9	0.00	0.00	9	0.00	0.00	-	o	1.000	9	0.00	0.00	9	0.00	0.00	-	o	1.000	9	6.40	2.96	9	4.46	2.30	-	+	0.678
1642C/833	2	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	5.84	2.18	8	20.16	5.10	-	-	0.013
4537C/979	2	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	35.57	11.68	10	4.50	2.55	-	-	0.008
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			15.93	5.63		9.73	3.33		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.039x
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	0.097		Power-50%		0.647	P-value		0.125
19C/19	3	7	4.47	3.04	11	1.03	0.90	-	+	0.299	7	0.00	0.00	11	1.14	0.91	-	-	0.193	7	5.73	2.35	11	5.80	2.34	-	-	0.911
1642C/833	3	11	0.00	0.00	7	1.09	0.58	-	-	0.087	11	0.00	0.00	7	0.00	0.00	-	o	1.000	11	11.04	3.78	7	13.23	3.97	-	-	0.575
4537C/979	3	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	25.80	9.78	10	8.76	5.21	-	+	0.105
Habitat Means			1.50	1.00		0.70	0.50		-			0.00	0.00		0.37	0.30		-			14.17	5.33		9.27	3.83		-	
Fisher's		Power	0.024		Power-50%		0.035	P-value		0.240 y	Power	0.001		Power-50%		---	P-value		0.281	Power	0.027		Power-50%		0.781	P-value		0.653 y
Stouffer's		Power	0.035		Power-50%		0.001	P-value		0.292	Power	0.000		Power-50%		---	P-value		0.367	Power	0.002		Power-50%		0.806	P-value		0.856

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Cryptosiphonia woodii (A)									Endocladia muricata (P)									Gloiopeltis furcata (A)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
1642C/833	1	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	0.00	0.00	8	3.45	2.28	-	-	0.074	11	0.23	0.23	8	0.48	0.48	-	-	0.711
4537C/979	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		1.17	0.77		-			0.07	0.07		0.17	0.17		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.020		Power-50%		---	P-value		0.154	Power	---		Power-50%		---	P-value		0.565
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.001		Power-50%		---	P-value		0.196	Power	---		Power-50%		---	P-value		0.430
19C/19	2	9	0.28	0.28	9	0.56	0.56	-	-	0.812	9	0.00	0.00	9	0.00	0.00	-	o	1.000	9	0.00	0.00	9	0.14	0.14	-	-	0.347
1642C/833	2	12	0.21	0.21	8	1.41	0.99	-	-	0.300	12	0.83	0.83	8	7.81	5.12	-	-	0.262	12	1.68	0.98	8	3.30	1.87	-	-	0.516
4537C/979	2	9	0.83	0.59	10	0.00	0.00	-	+	0.176	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	1.25	1.00	-	-	0.194
Habitat Means			0.43	0.37		0.67	0.53		-			0.27	0.27		2.60	1.70		-			0.57	0.33		1.57	1.00		-	
Fisher's		Power	0.039		Power-50%		0.140	P-value		0.448	Power	0.080		Power-50%		---	P-value		0.336	Power	---		Power-50%		---	P-value		0.092
Stouffer's		Power	0.011		Power-50%		0.273	P-value		0.717	Power	0.020		Power-50%		---	P-value		0.295	Power	---		Power-50%		---	P-value		0.050
19C/19	3	7	2.16	1.25	11	2.62	1.69	-	-	0.856	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.36	0.36	11	0.00	0.00	-	+	0.356
1642C/833	3	11	2.05	1.61	7	0.19	0.19	-	+	0.357	11	0.00	0.00	7	3.04	2.11	-	-	0.123	11	1.71	1.15	7	8.40	4.57	-	-	0.076
4537C/979	3	8	0.63	0.63	10	0.50	0.33	-	+	0.919	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	3.75	2.50	10	0.13	0.13	-	+	0.225
Habitat Means			1.63	1.17		1.10	0.73		+			0.00	0.00		1.00	0.70		-			1.97	1.37		2.83	1.57		+	
Fisher's		Power	0.071		Power-50%		0.424	P-value		0.410	Power	0.004		Power-50%		---	P-value		0.213	Power	0.032		Power-50%		0.453	P-value		0.245xy
Stouffer's		Power	0.104		Power-50%		0.407	P-value		0.316	Power	0.000		Power-50%		---	P-value		0.230	Power	0.021		Power-50%		0.541	P-value		0.342

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.58. Algal Percent Cover. Rhodophyta. Prince William Sound. Exposed Rocky. June 1991. Undisturbed. (Continued.)

		Neorhodomela/Rhodomela (P) (a)									Odonthalia floccosa (P)									Ptilota/Neoptilota (P) (b)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.80	0.68	10	0.00	0.00	-	-	0.206	11	0.00	0.00	10	0.00	0.00	-	o	1.000
1642C/833	1	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	0.00	0.00	8	0.00	0.00	-	o	1.000
4537C/979	1	12	3.23	2.25	10	0.13	0.13	-	+	0.246	12	6.36	3.69	10	1.25	1.25	-	+	0.277	12	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			1.07	0.77		0.03	0.03		+			2.40	1.47		0.43	0.43		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.005		Power-50%	0.002	P-value			0.325	Power	0.111		Power-50%	0.128	P-value			0.129	Power	---		Power-50%	---	P-value			0.655
Stouffer's		Power	0.001		Power-50%	0.024	P-value			0.166	Power	0.187		Power-50%	0.303	P-value			0.107	Power	---		Power-50%	---	P-value			0.500
19C/19	2	9	0.70	0.48	9	0.00	0.00	-	+	0.172	9	5.43	2.66	9	3.76	2.37	-	+	0.595	9	0.00	0.00	9	0.00	0.00	-	o	1.000
1642C/833	2	12	1.15	1.15	8	5.79	5.27	-	-	0.330	12	1.98	1.44	8	1.88	1.87	-	+	0.901	12	0.00	0.00	8	0.00	0.00	-	o	1.000
4537C/979	2	9	13.90	12.28	10	0.00	0.00	-	-	0.068	9	10.83	5.64	10	3.25	2.53	-	+	0.167	9	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			8.60	4.67		1.93	1.77		-			6.07	3.23		3.00	2.27		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.061	Power	0.262		Power-50%	0.620	P-value			0.175	Power	---		Power-50%	---	P-value			0.655
Stouffer's		Power			Power-50%	---	P-value			0.078	Power	---		Power-50%	---	P-value			0.088	Power	---		Power-50%	---	P-value			0.500
19C/19	3	7	0.19	0.19	11	0.45	0.45	-	-	0.887	7	3.06	1.62	11	2.73	1.37	-	-	0.696	7	0.00	0.00	11	0.00	0.00	-	o	1.000
1642C/833	3	11	3.07	2.51	7	0.00	0.00	-	+	0.198	11	4.21	2.46	7	1.61	1.61	-	-	0.487	11	0.00	0.00	7	0.00	0.00	-	o	1.000
4537C/979	3	8	4.85	2.93	10	0.76	0.63	-	+	0.138	8	16.57	10.83	10	6.76	5.03	-	+	0.486	8	0.00	0.00	10	0.63	0.63	-	-	0.343
Habitat Means			2.73	1.87		0.43	0.37		+			7.97	4.97		3.70	2.67		+			0.00	0.00		0.20	0.20		-	
Fisher's		Power	---		Power-50%	---	P-value			0.084	Power	0.112		Power-50%	0.468	P-value			0.256	Power	---		Power-50%	---	P-value			0.391
Stouffer's		Power	---		Power-50%	---	P-value			0.034	Power	0.137		Power-50%	0.537	P-value			0.154	Power	---		Power-50%	---	P-value			0.214

(a) Genera not separated.

(b) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Saccate Reds									Halosaccion glandiforme (A)									Morphological Group: Fine Filamentous Reds								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	11	0.45	0.45	10	0.00	0.00	-	+	0.341	11	0.45	0.45	10	0.00	0.00	-	+	0.341	11	0.00	0.00	10	0.00	0.00	-	o	1.000
1642C/833	1	11	0.00	0.00	8	0.16	0.16	-	-	0.351	11	0.00	0.00	8	0.16	0.16	-	-	0.351	11	0.00	0.00	8	0.00	0.00	-	o	1.000
4537C/979	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.17	0.17		0.07	0.07		+			0.17	0.17		0.07	0.07		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.505	Power	---		Power-50%	---	P-value			0.505	Power	---		Power-50%	---	P-value			0.655
Stouffer's		Power	---		Power-50%	---	P-value			0.579	Power	---		Power-50%	---	P-value			0.579	Power	---		Power-50%	---	P-value			0.500
19C/19	2	9	0.14	0.14	9	0.42	0.30	-	-	0.474	9	0.14	0.14	9	0.42	0.30	-	-	0.474	9	0.00	0.00	9	0.00	0.00	-	o	1.000
1642C/833	2	12	0.00	0.00	8	5.16	2.39	-	-	0.043	12	0.00	0.00	8	5.16	2.39	-	-	0.043	12	0.32	0.23	8	1.10	0.73	-	-	0.388
4537C/979	2	9	1.67	1.38	10	0.00	0.00	-	-	0.204	9	1.67	1.38	10	0.00	0.00	-	-	0.204	9	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.60	0.50		1.87	0.90		-			0.60	0.50		1.87	0.90		-			0.10	0.07		0.37	0.23		-	
Fisher's		Power	---		Power-50%	---	P-value			0.096	Power	---		Power-50%	---	P-value			0.096	Power	0.040		Power-50%	0.003	P-value			0.417
Stouffer's		Power	0.048		Power-50%	0.078	P-value			0.464	Power	0.047		Power-50%	0.064	P-value			0.464	Power	0.014		Power-50%	0.000	P-value			0.340
19C/19	3	7	5.54	2.15	11	0.12	0.12	-	+	0.041	7	5.54	2.15	11	0.12	0.12	-	+	0.041	7	2.16	1.25	11	0.68	0.49	-	+	0.235
1642C/833	3	11	0.23	0.23	7	1.26	1.06	-	-	0.272	11	0.23	0.23	7	1.26	1.06	-	-	0.272	11	2.16	1.57	7	0.19	0.19	-	+	0.332
4537C/979	3	8	0.00	0.00	10	0.13	0.13	-	-	0.343	8	0.00	0.00	10	0.13	0.13	-	-	0.343	8	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			1.90	0.80		0.50	0.43		-			1.90	0.80		0.50	0.43		-			1.47	0.97		0.30	0.23		+	
Fisher's		Power	0.020		Power-50%	0.389	P-value			0.272xy	Power	0.017		Power-50%	0.359	P-value			0.272xy	Power	0.196		Power-50%	0.314	P-value			0.159
Stouffer's		Power	0.001		Power-50%	0.127	P-value			0.215	Power	0.003		Power-50%	0.120	P-value			0.215	Power	0.239		Power-50%	0.110	P-value			0.219

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.58. Algal Percent Cover. Rhodophyta. Prince William Sound. Exposed Rocky. June 1991. Undisturbed. (Continued.)

Site Pair	Mvd	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Crustose Reds N	C	SE	N	O	SE	CV	D	P	Crustose Coralline Algae (P) N	C	SE	N	O	SE	CV	D	P
19C/19	1	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.45	0.45	10	0.00	0.00	-	+	0.341	11	0.00	0.00	10	0.00	0.00	-	o	1.000
1642C/833	1	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	0.00	0.00	8	0.00	0.00	-	o	1.000
4537C/979	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.17	0.17		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.389	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.402	Power	---		Power-50%		---	P-value		0.500
19C/19	2	9	0.00	0.00	9	0.00	0.00	-	o	1.000	9	0.00	0.00	9	0.00	0.00	-	o	1.000	9	0.00	0.00	9	0.00	0.00	-	o	1.000
1642C/833	2	12	0.32	0.23	8	1.10	0.73	-	-	0.388	12	0.00	0.00	8	1.10	1.10	-	-	0.351	12	0.00	0.00	8	0.00	0.00	-	o	1.000
4537C/979	2	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.10	0.07		0.37	0.23		-			0.00	0.00		0.37	0.37		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.044		Power-50%		0.004	P-value		0.417	Power	---		Power-50%		---	P-value		0.395	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.014		Power-50%		0.000	P-value		0.340	Power	---		Power-50%		---	P-value		0.327	Power	---		Power-50%		---	P-value		0.500
19C/19	3	7	2.16	1.25	11	0.68	0.49	-	+	0.235	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.00	0.00	-	o	1.000
1642C/833	3	11	2.16	1.57	7	0.19	0.19	-	+	0.332	11	0.00	0.00	7	0.00	0.00	-	o	1.000	11	0.00	0.00	7	0.00	0.00	-	o	1.000
4537C/979	3	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			1.47	0.97		0.30	0.23		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.195		Power-50%		0.326	P-value		0.159	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.235		Power-50%		0.117	P-value		0.219	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Hildenbrandia sp. (P) N	C	SE	N	O	SE	CV	D	P	Petrocelis (P) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	11	0.45	0.45	10	0.00	0.00	-	+	0.341	11	0.00	0.00	10	0.00	0.00	-	o	1.000									
1642C/833	1	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	0.00	0.00	8	0.00	0.00	-	o	1.000									
4537C/979	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000									
Habitat Means			0.17	0.17		0.00	0.00		+			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.389	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.402	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
19C/19	2	9	0.00	0.00	9	0.00	0.00	-	o	1.000	9	0.00	0.00	9	0.00	0.00	-	o	1.000									
1642C/833	2	12	0.00	0.00	8	1.10	1.10	-	-	0.351	12	0.00	0.00	8	0.00	0.00	-	o	1.000									
4537C/979	2	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.37	0.37		-			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.395	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.327	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
19C/19	3	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.00	0.00	-	o	1.000									
1642C/833	3	11	0.00	0.00	7	0.00	0.00	-	o	1.000	11	0.00	0.00	7	0.00	0.00	-	o	1.000									
4537C/979	3	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.59. Algal Percent Cover. Invertebrates. Prince William Sound. Exposed Rocky. June 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Actiniidae							Balanomorpha							Lottiidae							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	7.74	4.59	10	1.50	1.25	-	+	0.244	11	0.00	0.00	10	0.13	0.13	-	-	0.343
1642C/833	1	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	4.66	4.07	8	13.93	4.36	-	-	0.045	11	0.00	0.00	8	0.00	0.00	-	o	1.000
4537C/979	1	12	0.00	0.00	10	0.26	0.17	-	-	0.168	12	1.68	1.16	10	4.51	3.08	-	-	0.516	12	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.10	0.07		-			4.70	3.30		6.63	2.93		-			0.00	0.00		0.03	0.03		-	
Fisher's		Power	0.005		Power-50%		---	P-value		0.259	Power	0.201		Power-50%		0.535	P-value		0.103	Power	---		Power-50%		---	P-value		0.391
Stouffer's		Power	0.001		Power-50%		---	P-value		0.124	Power	0.097		Power-50%		0.653	P-value		0.115	Power	---		Power-50%		---	P-value		0.402
19C/19	2	9	0.00	0.00	9	0.00	0.00	-	o	1.000	9	7.64	2.98	9	20.01	8.28	-	-	0.427	9	0.00	0.00	9	0.14	0.14	-	-	0.347
1642C/833	2	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	8.14	5.20	8	24.54	9.34	-	-	0.092	12	0.00	0.00	8	0.00	0.00	-	o	1.000
4537C/979	2	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.57	0.43	10	4.50	1.86	-	-	0.081	9	0.00	0.00	10	0.26	0.17	-	-	0.168
Habitat Means			0.00	0.00		0.00	0.00		o			5.43	2.87		16.33	6.50		-			0.00	0.00		0.13	0.10		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.016	Power	0.158		Power-50%		---	P-value		0.131
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.007	Power	---		Power-50%		---	P-value		0.081
19C/19	3	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	5.19	2.68	11	12.97	5.20	-	-	0.469	7	0.00	0.00	11	0.45	0.30	-	-	0.167
1642C/833	3	11	0.00	0.00	7	0.00	0.00	-	o	1.000	11	4.55	2.45	7	28.96	13.55	-	-	0.033	11	0.00	0.00	7	0.00	0.00	-	o	1.000
4537C/979	3	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.48	0.33	10	0.00	0.00	-	-	0.177	8	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			3.43	1.83		14.00	6.27		-			0.00	0.00		0.17	0.10		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.079	Power	0.006		Power-50%		---	P-value		0.258
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.084		Power-50%		0.629	P-value		0.468	Power	0.000		Power-50%		---	P-value		0.359

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Mytilus							Nucella lamellosa							Littorinidae							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	11	2.16	1.29	10	0.00	0.00	-	+	0.098	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.35	0.25	10	0.25	0.25	-	-	0.706
1642C/833	1	11	0.00	0.00	8	1.74	1.38	-	-	0.140	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	0.12	0.12	8	0.16	0.16	-	-	0.824
4537C/979	1	12	0.11	0.11	10	1.88	1.74	-	-	0.335	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.42	0.42	10	0.50	0.33	-	-	0.651
Habitat Means			0.77	0.47		1.20	1.03		-			0.00	0.00		0.00	0.00		o			0.30	0.27		0.33	0.27		-	
Fisher's		Power	0.037		Power-50%		0.053	P-value		0.174x	Power	---		Power-50%		---	P-value		0.655	Power	0.030		Power-50%		0.123	P-value		0.558
Stouffer's		Power	0.006		Power-50%		0.082	P-value		0.139	Power	---		Power-50%		---	P-value		0.500	Power	0.047		Power-50%		0.187	P-value		0.349
19C/19	2	9	10.70	6.98	9	0.00	0.00	-	-	0.046	9	0.00	0.00	9	0.00	0.00	-	o	1.000	9	0.00	0.00	9	0.00	0.00	-	o	1.000
1642C/833	2	12	0.11	0.11	8	3.29	1.99	-	-	0.133	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.00	0.00	-	o	1.000
4537C/979	2	9	0.84	0.70	10	1.00	0.67	-	-	0.922	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.28	0.28	10	0.00	0.00	-	+	0.347
Habitat Means			3.87	2.60		1.43	0.90		-			0.00	0.00		0.00	0.00		o			0.10	0.10		0.00	0.00		+	
Fisher's		Power	0.073		Power-50%		0.232	P-value		0.319xy	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.393
Stouffer's		Power	0.002		Power-50%		0.344	P-value		0.389	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.225
19C/19	3	7	0.71	0.71	11	0.00	0.00	-	+	0.356	7	0.00	0.00	11	0.35	0.35	-	-	0.341	7	0.00	0.00	11	0.23	0.23	-	-	0.341
1642C/833	3	11	1.59	0.91	7	1.07	1.07	-	+	0.646	11	0.00	0.00	7	0.00	0.00	-	o	1.000	11	0.23	0.23	7	0.00	0.00	-	-	0.341
4537C/979	3	8	0.00	0.00	10	0.25	0.25	-	-	0.343	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.77	0.53		0.47	0.47		+			0.00	0.00		0.13	0.13		-			0.07	0.07		0.07	0.07		-	
Fisher's		Power	0.031		Power-50%		0.116	P-value		0.413	Power	---		Power-50%		---	P-value		0.389	Power	---		Power-50%		---	P-value		0.506 y
Stouffer's		Power	0.026		Power-50%		0.016	P-value		0.630	Power	---		Power-50%		---	P-value		0.402	Power	---		Power-50%		---	P-value		0.582

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.59. Algal Percent Cover. Invertebrates. Prince William Sound. Exposed Rocky. June 1991. Undisturbed. (Continued.)

		Mollusca																							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	11	0.00	0.00	10	0.00	0.00	-	o	1.000																		
1642C/833	1	11	0.00	0.00	8	0.00	0.00	-	o	1.000																		
4537C/979	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
19C/19	2	9	0.28	0.28	9	0.00	0.00	-	+	0.347																		
1642C/833	2	12	0.00	0.00	8	0.00	0.00	-	o	1.000																		
4537C/979	2	9	0.00	0.00	10	0.00	0.00	-	o	1.000																		
Habitat Means			0.10	0.10		0.00	0.00		+																			
Fisher's		Power	---		Power-50%		---	P-value		0.393	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
19C/19	3	7	0.00	0.00	11	0.00	0.00	-	o	1.000																		
1642C/833	3	11	0.00	0.00	7	0.00	0.00	-	o	1.000																		
4537C/979	3	8	0.00	0.00	10	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
[illegible]		Power			Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.60. Algal Percent Cover. Substrates. Prince William Sound. Exposed Rocky. June 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Rock								Mud								Sand							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
19C/19	1	11	67.40	7.69	10	67.26	10.59	-	+	0.899	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
1642C/833	1	11	85.69	6.77	8	67.05	12.44	-	+	0.171	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	0.00	0.00	8	0.00	0.00	-	o	1.000
4537C/979	1	12	50.22	9.26	10	81.64	6.82	-	-	0.027	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			67.77	7.93		72.00	9.93		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.085		Power-50%		0.909	P-value		0.365xy	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.020		Power-50%		0.924	P-value		0.878	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	9	62.23	9.45	9	35.71	10.80	-	+	0.058	9	0.00	0.00	9	0.00	0.00	-	o	1.000	9	0.00	0.00	9	0.00	0.00	-	o	1.000
1642C/833	2	12	56.47	10.47	8	25.16	11.38	-	+	0.046	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.31	0.31	-	-	0.351
4537C/979	2	9	24.19	10.46	10	89.64	2.53	-	-	0.000	9	0.14	0.14	10	0.00	0.00	-	+	0.347	9	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			47.63	10.17		50.17	8.23		+			0.03	0.03		0.00	0.00		+			0.00	0.00		0.10	0.10		-	
Fisher's		Power	---		Power-50%		---	P-value		0.024xy	Power	---		Power-50%		---	P-value		0.393	Power	---		Power-50%		---	P-value		0.395
Stouffer's		Power	0.034		Power-50%		0.717	P-value		0.965	Power	---		Power-50%		---	P-value		0.215	Power	---		Power-50%		---	P-value		0.327
19C/19	3	7	40.54	16.38	11	40.36	9.59	-	+	0.993	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.00	0.00	-	o	1.000
1642C/833	3	11	31.83	10.61	7	31.97	9.68	-	-	0.902	11	0.00	0.00	7	0.00	0.00	-	o	1.000	11	0.00	0.00	7	0.00	0.00	-	o	1.000
4537C/979	3	8	17.98	6.32	10	47.39	13.28	-	-	0.125	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.26	0.16	10	0.00	0.00	-	+	0.351
Habitat Means			30.10	11.10		39.93	10.87		-			0.00	0.00		0.00	0.00		o			0.07	0.07		0.00	0.00		+	
Fisher's		Power	0.209		Power-50%		0.515	P-value		0.203	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.395
Stouffer's		Power	---		Power-50%		---	P-value		0.090	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.217

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Shell Fragments								Water								Zostera/Phyllospadix							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
19C/19	1	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
1642C/833	1	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	0.00	0.00	8	0.00	0.00	-	o	1.000
4537C/979	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	3.13	3.13	-	-	0.343	12	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		1.03	1.03		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.391	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.214	Power	---		Power-50%		---	P-value		0.500
19C/19	2	9	0.00	0.00	9	0.00	0.00	-	o	1.000	9	0.00	0.00	9	0.00	0.00	-	o	1.000	9	0.00	0.00	9	0.00	0.00	-	o	1.000
1642C/833	2	12	0.00	0.00	8	0.00	0.00	-	o	1.000	12	0.00	0.00	8	0.94	0.94	-	-	0.351	12	0.00	0.00	8	0.00	0.00	-	o	1.000
4537C/979	2	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.30	0.30		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.395	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.327	Power	---		Power-50%		---	P-value		0.500
19C/19	3	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.00	0.00	-	o	1.000
1642C/833	3	11	0.00	0.00	7	0.00	0.00	-	o	1.000	11	0.00	0.00	7	0.54	0.54	-	-	0.356	11	0.00	0.00	7	0.00	0.00	-	o	1.000
4537C/979	3	8	0.48	0.48	10	0.00	0.00	-	+	0.351	8	3.13	3.13	10	0.00	0.00	-	+	0.351	8	3.60	2.43	10	1.00	1.00	-	+	0.351
Habitat Means			0.17	0.17		0.00	0.00		+			1.03	1.03		0.17	0.17		+			1.20	0.80		0.33	0.33		+	
Fisher's		Power	---		Power-50%		---	P-value		0.395	Power	---		Power-50%		---	P-value		0.511	Power	0.013		Power-50%		0.027	P-value		0.396
Stouffer's		Power	---		Power-50%		---	P-value		0.217	Power	---		Power-50%		---	P-value		0.367	Power	0.003		Power-50%		0.052	P-value		0.217

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.60. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Exposed Rocky. June 1991. Undisturbed. (Continued.)

		Sand and Mud								Total Substrate															
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
1642C/833	1	11	0.00	0.00	8	0.00	0.00	-	o	1.000	11	85.69	6.77	8	67.05	12.44	-	+	0.171									
4537C/979	1	12	0.00	0.00	10	3.13	3.13	-	-	0.343	12	50.22	9.26	10	84.76	6.49	-	-	0.015									
Habitat Means			0.00	0.00		1.03	1.03		-			67.77	7.93		73.07	9.83		+										
Fisher's		Power	---		Power-50%		---	P-value		0.391	Power	0.084		Power-50%		0.898	P-value		0.366xy	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.214	Power	0.018		Power-50%		0.917	P-value		0.913	Power	---		Power-50%		---	P-value		
19C/19	2	9	0.00	0.00	9	0.00	0.00	-	o	1.000	9	62.23	9.45	9	35.71	10.80	-	+	0.058									
1642C/833	2	12	0.00	0.00	8	1.25	0.94	-	-	0.188	12	56.47	10.47	8	26.41	11.03	-	+	0.062									
4537C/979	2	9	0.14	0.14	10	0.00	0.00	-	+	0.347	9	24.32	10.44	10	89.64	2.53	-	-	0.000									
Habitat Means			0.03	0.03		0.43	0.30		-			47.67	10.13		50.57	8.10		+										
Fisher's		Power	0.001		Power-50%		---	P-value		0.370	Power	---		Power-50%		---	P-value		0.029xy	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.000		Power-50%		---	P-value		0.563	Power	0.033		Power-50%		0.687	P-value		0.969	Power	---		Power-50%		---	P-value		
19C/19	3	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	40.54	16.38	11	40.36	9.59	-	+	0.993									
1642C/833	3	11	0.00	0.00	7	0.54	0.54	-	-	0.356	11	31.83	10.61	7	32.51	9.54	-	-	0.875									
4537C/979	3	8	3.76	3.07	10	0.00	0.00	-	+	0.154	8	21.74	6.47	10	47.39	13.28	-	-	0.196									
Habitat Means			1.27	1.03		0.17	0.17		·			31.33	11.17		40.10	10.80		-										
Fisher's		Power	0.001		Power-50%		0.008	P-value		0.330	Power	0.191		Power-50%		0.481	P-value		0.263	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.000		Power-50%		0.021	P-value		0.226	Power	0.233		Power-50%		0.510	P-value		0.124	Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.61. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Exposed Rocky. July 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; - = control > oiled; + = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Algal Diversity Index (a)								Algal Taxa Richness (b)								Total Algae							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	10	0.11	0.06	11	0.05	0.04	-	+	0.336	10	1.10	0.38	11	1.18	0.52	-	-	0.902	10	24.88	10.77	11	25.92	8.84	-	-	0.999
1642C/833	1	15	0.03	0.02	11	0.11	0.04	-	-	0.095	15	0.73	0.23	11	1.27	0.33	-	-	0.179	15	21.26	7.67	11	26.60	9.51	-	-	0.669
4537C/979	1	11	0.03	0.02	14	0.04	0.03	-	-	0.874	11	0.73	0.24	14	0.29	0.19	-	+	0.159	11	26.49	11.71	14	0.90	0.67	-	+	0.044
Habitat Means			0.06	0.03		0.06	0.03		-			0.85	0.28		0.91	0.35		-			24.23	10.07		17.80	6.33		-	
Fisher's	Power		0.213		Power-50%		0.698	P-value		0.229	Power	0.149		Power-50%		0.964	P-value		0.361	Power	0.022		Power-50%		0.578	P-value		0.728xy
Stouffer's	Power		0.088		Power-50%		0.763	P-value		0.248	Power	0.045		Power-50%		0.968	P-value		0.693	Power	0.002		Power-50%		0.622	P-value		0.931
19C/19	2	8	0.13	0.07	11	0.11	0.05	-	+	0.798	8	1.25	0.56	11	1.64	0.47	-	-	0.604	8	18.14	12.08	11	41.37	11.07	-	-	0.249
1642C/833	2	12	0.21	0.05	9	0.17	0.07	-	+	0.587	12	2.08	0.29	9	1.89	0.51	-	+	0.729	12	58.87	9.45	9	35.14	12.31	-	+	0.139
4537C/979	2	12	0.14	0.04	14	0.05	0.04	-	+	0.098	12	1.75	0.18	14	0.71	0.37	-	+	0.025	12	68.87	7.22	14	13.31	6.74	-	+	0.000
Habitat Means			0.16	0.05		0.11	0.05		+			1.69	0.34		1.41	0.45		+			48.63	9.60		29.93	10.03		+	
Fisher's	Power		0.556		Power-50%		0.959	P-value		0.112	Power	---		Power-50%		---	P-value		0.074	Power	---		Power-50%		---	P-value		0.000
Stouffer's	Power		---		Power-50%		---	P-value		0.043	Power	---		Power-50%		---	P-value		0.028	Power	---		Power-50%		---	P-value		0.000
19C/19	3	6	0.29	0.12	10	0.29	0.09	-	+	0.981	6	3.67	1.28	10	3.20	0.73	-	+	0.736	6	49.37	17.34	10	51.38	12.87	-	-	0.833
1642C/833	3	12	0.29	0.07	7	0.27	0.12	-	+	0.884	12	3.50	0.65	7	3.57	1.23	-	-	0.955	12	70.11	8.89	7	64.83	15.79	-	-	0.971
4537C/979	3	9	0.46	0.08	13	0.29	0.08	-	+	0.159	9	4.89	0.99	13	3.54	0.92	-	-	0.339	9	63.90	8.71	13	52.60	11.35	-	-	0.487
Habitat Means			0.35	0.09		0.28	0.10		+			4.02	0.97		3.44	0.96		-			61.13	11.63		56.27	13.37		-	
Fisher's	Power		0.350		Power-50%		0.945	P-value		0.229	Power	0.238		Power-50%		0.886	P-value		0.335	Power	0.250		Power-50%		0.926	P-value		0.500
Stouffer's	Power		0.331		Power-50%		0.956	P-value		0.105	Power	0.247		Power-50%		0.908	P-value		0.194	Power	0.259		Power-50%		0.949	P-value		0.293

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tes
z Only one site pair.

		Total Invertebrates								Rock								Perennials (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	10	7.88	4.08	11	4.44	2.54	-	+	0.504	10	67.26	11.29	11	69.66	8.45	-	-	0.845	10	24.13	10.65	11	24.45	8.11	-	-	0.971
1642C/833	1	15	7.25	4.26	11	21.03	8.20	-	-	0.124	15	71.35	9.48	11	52.39	13.18	-	+	0.188	15	20.67	7.66	11	25.13	9.32	-	-	0.700
4537C/979	1	11	2.39	1.31	14	3.31	1.74	-	-	0.849	11	71.15	11.42	14	95.81	2.30	-	+	0.058	11	25.70	11.42	14	0.72	0.63	-	+	0.042
Habitat Means			5.87	3.23		9.57	4.13		-			69.97	10.73		72.63	8.00		-			23.50	9.93		16.77	6.00		-	
Fisher's	Power		0.294		Power-50%		0.868	P-value		0.249	Power	0.151		Power-50%		0.917	P-value		0.174	Power	0.019		Power-50%		0.595	P-value		0.733xy
Stouffer's	Power		0.181		Power-50%		0.902	P-value		0.235	Power	0.063		Power-50%		0.932	P-value		0.157	Power	0.001		Power-50%		0.662	P-value		0.935
19C/19	2	8	10.64	6.87	11	15.80	7.79	-	-	0.555	8	71.26	13.99	11	42.85	9.32	-	+	0.105	8	7.35	4.23	11	35.45	10.32	-	-	0.048
1642C/833	2	12	5.42	2.77	9	29.31	11.58	-	-	0.097	12	35.74	10.21	9	35.57	12.80	-	+	0.936	12	43.34	7.89	9	31.81	10.93	-	+	0.276
4537C/979	2	12	6.99	2.13	14	4.91	2.14	-	+	0.297	12	21.88	6.15	14	80.99	7.19	-	-	0.000	12	68.76	7.20	14	10.63	5.22	-	+	0.000
Habitat Means			7.67	3.93		16.67	7.17		-			42.97	10.13		53.17	9.77		+			39.83	6.43		25.97	8.80		+	
Fisher's	Power		0.304		Power-50%		0.790	P-value		0.177	Power	0.029		Power-50%		0.671	P-value		0.284xy	Power	---		Power-50%		---	P-value		0.001x
Stouffer's	Power		0.225		Power-50%		0.854	P-value		0.470	Power	0.000		Power-50%		0.704	P-value		0.997	Power	---		Power-50%		---	P-value		0.001
19C/19	3	6	2.92	1.19	10	16.13	10.72	-	-	0.509	6	47.72	17.42	10	32.51	12.11	-	+	0.596	6	37.08	16.39	10	41.77	12.36	-	-	0.730
1642C/833	3	12	4.79	3.67	7	2.69	2.69	-	-	0.503	12	16.78	3.91	7	32.33	16.52	-	-	0.612	12	35.74	8.23	7	53.23	15.80	-	-	0.231
4537C/979	3	9	2.79	1.46	13	3.95	2.65	-	-	0.918	9	16.82	5.82	13	34.52	10.01	-	-	0.266	9	48.63	9.88	13	36.07	9.53	-	+	0.318
Habitat Means			3.50	2.13		7.60	5.37		-			27.10	9.03		33.10	12.87		-			40.47	11.50		43.70	12.57		-	
Fisher's	Power		0.012		Power-50%		0.756	P-value		0.560	Power	0.091		Power-50%		0.809	P-value		0.311	Power	0.038		Power-50%		0.465	P-value		0.351
Stouffer's	Power		0.034		Power-50%		0.816	P-value		0.525	Power	0.070		Power-50%		0.823	P-value		0.150	Power	0.041		Power-50%		0.496	P-value		0.569

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.61. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Exposed Rocky. July 1991. Undisturbed. (Continued.)

		Annuals (A)								Ephemerals (AE)																			
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P
19C/19	1	10	0.75	0.53	11	1.48	1.25	-	-	0.818	10	0.00	0.00	11	1.25	1.25	-	-	0.341										
1642C/833	1	15	0.59	0.44	11	1.48	1.36	-	-	0.625	15	0.17	0.17	11	0.00	0.00	-	+	0.334										
4537C/979	1	11	0.80	0.80	14	0.18	0.18	-	+	0.563	11	0.00	0.00	14	0.00	0.00	-	o	1.000										
Habitat Means			0.73	0.57		1.07	0.97		-			0.07	0.07		0.43	0.43		+											
Fisher's		Power	0.024		Power-50%		0.248	P-value		0.573	Power	---		Power-50%		---	P-value		0.501	y	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.054		Power-50%		0.354	P-value		0.576	Power	---		Power-50%		---	P-value		0.425		Power	---		Power-50%		---	P-value		
19C/19	2	8	10.80	8.39	11	5.92	2.95	-	+	0.686	8	0.00	0.00	11	3.87	2.86	-	-	0.129										
1642C/833	2	12	15.53	6.55	9	3.34	2.60	-	+	0.112	12	12.30	5.23	9	0.00	0.00	-	-	0.012										
4537C/979	2	12	0.11	0.11	14	2.68	2.49	-	-	0.331	12	0.11	0.11	14	0.00	0.00	-	+	0.339										
Habitat Means			8.80	5.03		3.97	2.70		+			4.13	1.77		1.30	0.97		+											
Fisher's		Power	0.063		Power-50%		0.280	P-value		0.219	Power	---		Power-50%		---	P-value		0.030		Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.050		Power-50%		0.353	P-value		0.479	Power	---		Power-50%		---	P-value		0.054		Power	---		Power-50%		---	P-value		
19C/19	3	6	12.30	4.36	10	9.64	3.22	-	+	0.701	6	2.10	1.48	10	3.76	1.67	-	-	0.620										
1642C/833	3	12	34.38	9.24	7	11.61	6.41	-	+	0.092	12	31.68	9.02	7	1.07	0.74	-	+	0.002										
4537C/979	3	9	15.29	5.55	13	16.55	6.57	-	-	0.812	9	2.66	1.09	13	6.16	2.87	-	-	0.852										
Habitat Means			20.67	6.40		12.60	5.40		+			12.17	3.87		3.70	1.77		-											
Fisher's		Power	0.282		Power-50%		0.674	P-value		0.157	Power	0.024		Power-50%		0.695	P-value		0.670	xy	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.288		Power-50%		0.729	P-value		0.239	Power	0.000		Power-50%		0.771	P-value		0.884		Power	---		Power-50%		---	P-value		

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.62. Algal Percent Cover. Chlorophyta. Prince William Sound. Exposed Rocky. July 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; - = control > oiled; + = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group: Bladed Greens								Bladed Greens (AE) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	10	0.00	0.00	11	0.23	0.23	-	-	0.341	10	0.00	0.00	11	0.12	0.12	-	-	0.341	10	0.00	0.00	11	0.12	0.12	-	-	0.341
1642C/833	1	15	0.17	0.17	11	0.00	0.00	-	+	0.334	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	0.00	0.00	11	0.00	0.00	-	o	1.000
4537C/979	1	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			*0.07*	*0.07*		0.07	0.07		+			0.00	0.00		0.03	0.03		-			0.00	0.00		0.03	0.03		-	
Fisher's		Power	---		Power-50%		---	P-value		0.501 y	Power	---		Power-50%		---	P-value		0.389	Power	---		Power-50%		---	P-value		0.389
Stouffer's		Power	---		Power-50%		---	P-value		0.415	Power	---		Power-50%		---	P-value		0.402	Power	---		Power-50%		---	P-value		0.402
19C/19	2	8	0.00	0.00	11	1.03	0.81	-	-	0.189	8	0.00	0.00	11	0.23	0.23	-	-	0.341	8	0.00	0.00	11	0.23	0.23	-	-	0.341
1642C/833	2	12	8.44	4.91	9	0.00	0.00	-	+	0.034	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	0.00	0.00	9	0.00	0.00	-	o	1.000
4537C/979	2	12	0.11	0.11	14	0.00	0.00	-	-	0.339	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			2.83	1.67		0.33	0.27		+			0.00	0.00		0.07	0.07		-			0.00	0.00		0.07	0.07		-	
Fisher's		Power	---		Power-50%		---	P-value		0.064	Power	---		Power-50%		---	P-value		0.389	Power	---		Power-50%		---	P-value		0.389
Stouffer's		Power	---		Power-50%		---	P-value		0.070	Power	---		Power-50%		---	P-value		0.402	Power	---		Power-50%		---	P-value		0.402
19C/19	3	6	3.57	1.76	10	4.64	1.68	-	-	0.813	6	2.10	1.48	10	2.63	1.19	-	-	0.787	6	2.10	1.48	10	2.63	1.19	-	-	0.787
1642C/833	3	12	18.66	6.62	7	6.79	4.22	-	+	0.229	12	2.29	1.21	7	0.36	0.36	-	+	0.347	12	2.29	1.21	7	0.36	0.36	-	+	0.347
4537C/979	3	9	3.21	1.29	13	5.78	2.62	-	-	0.996	9	2.66	1.09	13	3.75	2.07	-	-	0.661	9	2.66	1.09	13	3.75	2.07	-	-	0.661
Habitat Means			8.50	3.23		5.73	2.83		-			2.37	1.27		2.27	1.23		-			2.37	1.27		2.27	1.23		-	
Fisher's		Power	0.014		Power-50%		0.628	P-value		0.752 y	Power	0.027		Power-50%		0.793	P-value		0.614 y	Power	0.026		Power-50%		0.791	P-value		0.614 y
Stouffer's		Power	0.016		Power-50%		0.675	P-value		0.695	Power	0.012		Power-50%		0.861	P-value		0.505	Power	0.014		Power-50%		0.856	P-value		0.505

(a) Kornmannia, Monostroma, Ulva and Ulvaria.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Fine Filamentous Greens								Acrosiphonia sp. (A)								Chaetomorpha/Rhizoclonium (A) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	10	0.00	0.00	11	0.12	0.12	-	-	0.341	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000
1642C/833	1	15	0.17	0.17	11	0.00	0.00	-	+	0.334	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	0.00	0.00	11	0.00	0.00	-	o	1.000
4537C/979	1	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			*0.07*	*0.07*		0.03	0.03		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.501	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.415	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	8	0.00	0.00	11	0.80	0.80	-	-	0.341	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000
1642C/833	2	12	8.44	4.91	9	0.00	0.00	-	+	0.034	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	0.00	0.00	9	0.00	0.00	-	o	1.000
4537C/979	2	12	0.11	0.11	14	0.00	0.00	-	+	0.339	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			2.83	1.67		0.27	0.27		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.061	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.058	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	3	6	1.47	1.47	10	2.01	1.06	-	-	0.581	6	0.00	0.00	10	0.88	0.59	-	-	0.169	6	1.47	1.47	10	0.00	0.00	-	-	0.363
1642C/833	3	12	16.16	6.62	7	6.43	4.29	-	+	0.274	12	0.11	0.11	7	6.43	4.29	-	-	0.204	12	0.00	0.00	7	0.00	0.00	-	o	1.000
4537C/979	3	9	0.57	0.43	13	2.02	1.92	-	-	0.785	9	0.57	0.43	13	1.92	1.92	-	-	0.913	9	0.00	0.00	13	0.00	0.00	-	o	1.000
Habitat Means			6.10	2.83		3.47	2.43		-			0.23	0.17		3.07	2.27		-			0.50	0.50		0.00	0.00		.	
Fisher's		Power	0.045		Power-50%		0.263	P-value		0.591 y	Power	---		Power-50%		---	P-value		0.086	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	0.066		Power-50%		0.391	P-value		0.561	Power	0.527		Power-50%		0.072	P-value		0.145	Power	---		Power-50%		---	P-value		0.406

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.62. Algal Percent Cover. Chlorophyta. Prince William Sound. Exposed Rocky. July 1991. Undisturbed. (Continued.)

Site Pair	Mvd	Cladophora sp. (AE) N	C	SE	N	O	SE	CV	D	P	Ulothrix sp. (AE) N	C	SE	N	O	SE	CV	D	P	Urospora sp. (AE) N	C	SE	N	O	SE	CV	D	P
19C/19	1	10	0.00	0.00	11	0.12	0.12	-	-	0.341	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000
1642C/833	1	15	0.17	0.17	11	0.00	0.00	-	+	0.334	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	0.00	0.00	11	0.00	0.00	-	o	1.000
4537C/979	1	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.07	0.07		0.03	0.03		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50%	---		P-value		0.501	Power ---			Power-50%	---		P-value		0.655	Power ---			Power-50%	---		P-value		0.655
Stouffer's		Power ---			Power-50%	---		P-value		0.415	Power ---			Power-50%	---		P-value		0.500	Power ---			Power-50%	---		P-value		0.500
19C/19	2	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.80	0.80	-	-	0.341	8	0.00	0.00	11	0.00	0.00	-	o	1.000
1642C/833	2	12	8.44	4.91	9	0.00	0.00	-	+	0.034	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	0.00	0.00	9	0.00	0.00	-	o	1.000
4537C/979	2	12	0.11	0.11	14	0.00	0.00	-	+	0.339	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			2.83	1.67		0.00	0.00		+			0.00	0.00		0.27	0.27		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50%	---		P-value		0.042	Power ---			Power-50%	---		P-value		0.389	Power ---			Power-50%	---		P-value		0.655
Stouffer's		Power ---			Power-50%	---		P-value		0.035	Power ---			Power-50%	---		P-value		0.402	Power ---			Power-50%	---		P-value		0.500
19C/19	3	6	0.00	0.00	10	1.13	0.99	-	-	0.218	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	0.00	0.00	10	0.00	0.00	-	o	1.000
1642C/833	3	12	16.05	6.64	7	0.00	0.00	-	+	0.013	12	0.00	0.00	7	0.00	0.00	-	o	1.000	12	0.00	0.00	7	0.00	0.00	-	o	1.000
4537C/979	3	9	0.00	0.00	13	0.10	0.10	-	-	0.337	9	0.00	0.00	13	0.00	0.00	-	o	1.000	9	0.00	0.00	13	0.00	0.00	-	o	1.000
Habitat Means			5.37	2.20		0.40	0.37		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power 0.002			Power-50%	0.004		P-value		0.238xv	Power ---			Power-50%	---		P-value		0.655	Power ---			Power-50%	---		P-value		0.655
Stouffer's		Power 0.000			Power-50%	0.000		P-value		0.528	Power ---			Power-50%	---		P-value		0.500	Power ---			Power-50%	---		P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Morphological Group: Tubular and Saccate Greens N	C	SE	N	O	SE	CV	D	P	Blidingia/Enteromorpha (AE) (a) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
1642C/833	1	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	0.00	0.00	11	0.00	0.00	-	o	1.000									
4537C/979	1	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.00	0.00	14	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power ---			Power-50%	---		P-value		0.655	Power ---			Power-50%	---		P-value		0.655	Power ---			Power-50%	---		P-value		
Stouffer's		Power ---			Power-50%	---		P-value		0.500	Power ---			Power-50%	---		P-value		0.500	Power ---			Power-50%	---		P-value		
19C/19	2	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000									
1642C/833	2	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	0.00	0.00	9	0.00	0.00	-	o	1.000									
4537C/979	2	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power ---			Power-50%	---		P-value		0.655	Power ---			Power-50%	---		P-value		0.655	Power ---			Power-50%	---		P-value		
Stouffer's		Power ---			Power-50%	---		P-value		0.500	Power ---			Power-50%	---		P-value		0.500	Power ---			Power-50%	---		P-value		
19C/19	3	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	0.00	0.00	10	0.00	0.00	-	o	1.000									
1642C/833	3	12	0.21	0.21	7	0.00	0.00	-	+	0.339	12	0.21	0.21	7	0.00	0.00	-	-	0.339									
4537C/979	3	9	0.00	0.00	13	0.00	0.00	-	o	1.000	9	0.00	0.00	13	0.00	0.00	-	o	1.000									
Habitat Means			0.07	0.07		0.00	0.00		+			0.07	0.07		0.00	0.00		+										
Fisher's		Power ---			Power-50%	---		P-value		0.388	Power ---			Power-50%	---		P-value		0.388	Power ---			Power-50%	---		P-value		
Stouffer's		Power ---			Power-50%	---		P-value		0.323	Power ---			Power-50%	---		P-value		0.323	Power ---			Power-50%	---		P-value		

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.63. Algal Percent Cover. Phaeophyta. Prince William Sound. Exposed Rocky. July 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group: Bladed Browns								Alaria sp. (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	10	20.01	9.85	11	24.78	8.28	-	~	0.833	10	20.01	9.85	11	23.76	7.80	-	~	0.873	10	0.00	0.00	11	0.00	0.00	-	o	1.000
1642C/833	1	15	20.43	7.63	11	21.83	9.41	-	~	0.978	15	20.43	7.63	11	21.37	9.35	-	~	0.956	15	0.00	0.00	11	0.00	0.00	-	o	1.000
4537C/979	1	11	23.76	10.86	14	0.27	0.19	-	+	0.051	11	23.76	10.86	14	0.27	0.19	-	+	0.051	11	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			21.40	9.47		15.63	5.97		~			21.40	9.47		15.17	5.80		~			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.007			Power-50%	0.645	P-value		0.779xy	Power	0.008			Power-50%	0.612	P-value		0.785xy	Power	---			Power-50%	---	P-value		0.655
Stouffer's		Power	0.001			Power-50%	0.697	P-value		0.941	Power	0.000			Power-50%	0.671	P-value		0.941	Power	---			Power-50%	---	P-value		*0.500*
19C/19	2	8	6.73	3.85	11	38.07	10.00	-	~	0.030	8	5.00	3.10	11	35.00	10.11	-	~	0.030	8	0.00	0.00	11	0.00	0.00	-	o	1.000
1642C/833	2	12	41.26	9.72	9	22.23	9.65	-	~	0.138	12	37.40	8.21	9	22.23	9.65	-	+	0.178	12	0.00	0.00	9	0.00	0.00	-	o	1.000
4537C/979	2	12	35.43	10.71	14	10.18	5.04	-	~	0.018	12	35.43	10.71	14	7.86	4.68	-	+	0.009	12	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			27.80	8.10		23.50	8.23		+			25.93	7.33		21.70	8.17		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.022x	Power	---			Power-50%	---	P-value		0.016x	Power	---			Power-50%	---	P-value		0.655
Stouffer's		Power	---			Power-50%	---	P-value		0.017	Power	---			Power-50%	---	P-value		0.012	Power	---			Power-50%	---	P-value		0.500
19C/19	3	6	33.77	14.87	10	34.51	9.35	-	~	0.828	6	32.10	14.63	10	33.51	9.64	-	~	0.805	6	1.47	1.05	10	0.00	0.00	-	+	0.189
1642C/833	3	12	47.93	8.80	7	50.19	14.71	-	~	0.714	12	33.24	8.28	7	42.14	16.36	-	~	0.563	12	0.00	0.00	7	0.00	0.00	-	o	1.000
4537C/979	3	9	30.42	8.57	13	28.56	8.02	-	~	0.726	9	28.49	8.94	13	22.50	7.93	-	+	0.401	9	0.00	0.00	13	0.00	0.00	-	o	1.000
Habitat Means			37.37	10.77		37.77	10.70		~			31.27	10.60		32.70	11.30		~			*0.50*	*0.37*		*0.00*	*0.00*		.	
Fisher's		Power	0.022			Power-50%	0.624	P-value		0.579	Power	0.043			Power-50%	0.497	P-value		0.569	Power	0.004			Power-50%	0.002	P-value		0.278
Stouffer's		Power	0.025			Power-50%	0.660	P-value		0.524	Power	0.057			Power-50%	0.527	P-value		0.641	Power	0.000			Power-50%	0.000	P-value		0.366

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Fucus gardneri (P)								Adult Fucus gardneri (P) (> 2cm)								Juvenile Fucus gardneri (E) (<= 2cm)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	10	20.01	9.85	11	23.76	7.80	-	~	0.873	10	20.01	9.85	11	23.54	7.80	-	-	0.884	10	0.00	0.00	11	0.23	0.23	-	+	0.341
1642C/833	1	15	20.43	7.63	11	21.37	9.35	-	~	0.956	15	20.09	7.66	11	20.92	9.10	-	-	0.958	15	0.33	0.33	11	0.45	0.45	-	-	0.827
4537C/979	1	11	23.76	10.86	14	0.27	0.19	-	+	0.051	11	23.31	10.77	14	0.19	0.13	-	+	0.051	11	0.45	0.30	14	0.09	0.09	-	+	0.297
Habitat Means			21.40	9.47		15.17	5.80		-			21.13	9.47		14.87	5.67		-			0.27	0.20		0.27	0.27		-	
Fisher's		Power	0.007			Power-50%	0.620	P-value		0.785xy	Power	0.008			Power-50%	0.629	P-value		0.789xy	Power	0.015			Power-50%	0.094	P-value		0.466 y
Stouffer's		Power	0.001			Power-50%	0.665	P-value		0.941	Power	0.000			Power-50%	0.666	P-value		0.942	Power	*0.024*			Power-50%	*0.095*	P-value		*0.699*
19C/19	2	8	5.00	3.10	11	35.00	10.11	-	~	0.030	8	5.00	3.10	11	35.00	10.11	-	-	0.030	8	0.00	0.00	11	0.00	0.00	-	o	1.000
1642C/833	2	12	37.40	8.21	9	22.23	9.65	-	+	0.178	12	37.30	8.21	9	21.54	9.69	-	+	0.159	12	0.11	0.11	9	0.70	0.37	-	-	0.121
4537C/979	2	12	35.43	10.71	14	7.86	4.68	-	+	0.009	12	35.22	10.77	14	7.86	4.68	-	+	0.013	12	0.21	0.21	14	0.00	0.00	-	.	0.339
Habitat Means			25.93	7.33		21.70	8.17		+			25.83	7.37		21.47	8.17		.			0.10	0.10		0.23	0.13		-	
Fisher's		Power	---			Power-50%	---	P-value		0.016x	Power	---			Power-50%	---	P-value		0.019x	Power	0.048			Power-50%	---	P-value		0.288
Stouffer's		Power	---			Power-50%	---	P-value		0.012	Power	---			Power-50%	---	P-value		0.014	Power	0.008			Power-50%	---	P-value		0.523
19C/19	3	6	30.63	14.07	10	33.51	9.64	-	~	0.751	6	30.63	14.07	10	33.51	9.64	-	-	0.751	6	0.00	0.00	10	0.00	0.00	-	o	1.000
1642C/833	3	12	33.24	8.28	7	42.14	16.36	-	-	0.563	12	33.03	8.30	7	42.14	16.36	-	-	0.555	12	0.21	0.21	7	0.00	0.00	-	+	0.339
4537C/979	3	9	28.49	8.94	13	22.50	7.93	-	+	0.401	9	28.49	8.94	13	22.50	7.93	-	+	0.401	9	0.00	0.00	13	0.00	0.00	-	o	1.000
Habitat Means			30.77	10.43		32.70	11.30		~			30.70	10.43		32.70	11.30		-			*0.07*	*0.07*		*0.00*	*0.00*		+	
Fisher's		Power	0.043			Power-50%	0.540	P-value		0.551	Power	0.040			Power-50%	0.507	P-value		0.548	Power	---			Power-50%	---	P-value		0.388
Stouffer's		Power	0.061			Power-50%	0.563	P-value		0.634	Power	0.053			Power-50%	0.539	P-value		0.632	Power	---			Power-50%	---	P-value		0.121

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.63. Algal Percent Cover. Phaeophyta. Prince William Sound. Exposed Rocky. July 1991. Undisturbed. (Continued.)

		Fucus Stipes (P) (a)								Morphological Group: Coarse Filamentous Browns								Analipus japonicus (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000
1642C/833	1	15	0.17	0.17	11	0.00	0.00	-	+	0.334	15	0.00	0.00	11	0.45	0.45	-	-	0.341	15	0.00	0.00	11	0.00	0.00	-	o	1.000
4537C/979	1	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.07	0.07		0.00	0.00		+			0.00	0.00		0.17	0.17		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.385	Power	---		Power-50%		---	P-value		0.389	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.322	Power	---		Power-50%		---	P-value		0.324	Power	---		Power-50%		---	P-value		0.500
19C/19	2	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	1.25	1.25	11	0.23	0.23	-	+	0.506	8	0.00	0.00	11	0.00	0.00	-	o	1.000
1642C/833	2	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	0.00	0.00	9	0.00	0.00	-	o	1.000
4537C/979	2	12	0.83	0.83	14	0.00	0.00	-	+	0.339	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.27	0.27		0.00	0.00		+			0.43	0.43		0.07	0.07		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.388	Power	---		Power-50%		---	P-value		0.479	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.211	Power	---		Power-50%		---	P-value		0.431	Power	---		Power-50%		---	P-value		0.500
19C/19	3	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	0.42	0.42	10	0.75	0.75	-	-	0.976	6	0.00	0.00	10	0.00	0.00	-	o	1.000
1642C/833	3	12	0.00	0.00	7	0.19	0.19	-	-	0.356	12	1.57	1.03	7	2.50	1.81	-	-	0.772	12	0.00	0.00	7	1.79	1.79	-	-	0.356
4537C/979	3	9	0.00	0.00	13	0.00	0.00	-	o	1.000	9	0.84	0.70	13	1.64	0.98	-	-	0.686	9	0.00	0.00	13	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.07	0.07		-			0.93	0.70		1.63	1.20		-			0.00	0.00		0.60	0.60		-	
Fisher's		Power	---		Power-50%		---	P-value		0.399	Power	0.088		Power-50%		0.487	P-value		0.484	Power	---		Power-50%		---	P-value		0.399
Stouffer's		Power	---		Power-50%		---	P-value		0.329	Power	0.131		Power-50%		0.595	P-value		0.314	Power	---		Power-50%		---	P-value		0.329

(a) Dead Fucus plants or stipes without blades.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Dictyosiphon sp. (A)								Myelophycus/Scytosiphon (A) (a)								Morphological Group: Fine Filamentous Browns							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	1.03	1.03	-	-	0.341
1642C/833	1	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	0.00	0.00	11	0.45	0.45	-	-	0.341	15	0.00	0.00	11	0.00	0.00	-	o	1.000
4537C/979	1	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.17	0.17		-			0.00	0.00		0.33	0.33		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.389	Power	---		Power-50%		---	P-value		0.389
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.324	Power	---		Power-50%		---	P-value		0.402
19C/19	2	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	1.25	1.25	11	0.23	0.23	-	-	0.506	8	0.00	0.00	11	2.85	2.12	-	-	0.181
1642C/833	2	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	3.86	2.63	9	0.00	0.00	-	-	0.167
4537C/979	2	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.43	0.43		0.07	0.07		+			1.30	0.87		0.97	0.70		+	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.479	Power	0.001		Power-50%		0.004	P-value		0.366
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.431	Power	0.000		Power-50%		0.000	P-value		0.377
19C/19	3	6	0.22	0.22	10	0.00	0.00	-	+	0.363	6	0.22	0.22	10	0.75	0.75	-	-	0.827	6	0.00	0.00	10	0.00	0.00	-	o	1.000
1642C/833	3	12	0.00	0.00	7	0.00	0.00	-	o	1.000	12	1.57	1.03	7	0.71	0.71	-	+	0.504	12	13.13	7.17	7	0.71	0.71	-	+	0.038
4537C/979	3	9	0.00	0.00	13	0.00	0.00	-	o	1.000	9	0.84	0.70	13	1.64	0.98	-	-	0.686	9	0.00	0.00	13	2.31	2.31	-	-	0.337
Habitat Means			0.07	0.07		0.00	0.00		+			0.87	0.63		1.03	0.83		-			4.37	2.40		1.00	1.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	0.015		Power-50%		0.500	P-value		0.611	Power	0.053		Power-50%		0.003	P-value		0.139
Stouffer's		Power	---		Power-50%		---	P-value		0.406	Power	0.037		Power-50%		0.585	P-value		0.470	Power	0.005		Power-50%		0.002	P-value		0.424

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.63. Algal Percent Cover. Phaeophyta. Prince William Sound. Exposed Rocky. July 1991. Undisturbed. (Continued.)

Site Pair	Mvd	Fine Filamentous Browns (AE) (b) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Saccate Browns N	C	SE	N	O	SE	CV	D	P	Leathesia/Colpomenia (A) (a) N	C	SE	N	O	SE	CV	D	P
19C/19	1	10	0.00	0.00	11	1.03	1.03	-	-	0.341	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000
1642C/833	1	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	0.00	0.00	11	0.00	0.00	-	o	1.000
4537C/979	1	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.33	0.33		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.389	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.402	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	8	0.00	0.00	11	2.85	2.12	-	-	0.181	8	0.48	0.48	11	0.00	0.00	-	-	0.351	8	0.00	0.00	11	0.00	0.00	-	o	1.000
1642C/833	2	12	3.86	2.63	9	0.00	0.00	-	+	0.167	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	0.00	0.00	9	0.00	0.00	-	o	1.000
4537C/979	2	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	2.32	2.32	-	-	0.336	12	0.00	0.00	14	2.32	2.32	-	-	0.336
Habitat Means			1.30	0.87		0.97	0.70		+			0.17	0.17		0.77	0.77		-			0.00	0.00		0.77	0.77		-	
Fisher's		Power	0.002		Power-50%		0.006	P-value		0.366	Power	---		Power-50%		---	P-value		0.501	Power	---		Power-50%		---	P-value		0.386
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.377	Power	---		Power-50%		---	P-value		0.287	Power	---		Power-50%		---	P-value		0.210
19C/19	3	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	1.25	1.25	10	0.25	0.25	-	+	0.468	6	0.00	0.00	10	0.00	0.00	-	o	1.000
1642C/833	3	12	13.13	7.17	7	0.71	0.71	-	+	0.038	12	0.00	0.00	7	0.00	0.00	-	o	1.000	12	0.00	0.00	7	0.00	0.00	-	o	1.000
4537C/979	3	9	0.00	0.00	13	2.31	2.31	-	-	0.337	9	1.12	0.82	13	1.06	0.96	-	-	0.657	9	0.14	0.14	13	0.00	0.00	-	+	0.347
Habitat Means			4.37	2.40		1.00	1.00		+			0.80	0.70		0.47	0.43		-			0.03	0.03		0.00	0.00		+	
Fisher's		Power	0.051		Power-50%		0.007	P-value		0.139	Power	0.039		Power-50%		0.077	P-value		0.367	Power	---		Power-50%		---	P-value		0.393
Stouffer's		Power	0.007		Power-50%		0.000	P-value		0.424	Power	0.058		Power-50%		0.131	P-value		0.287	Power	---		Power-50%		---	P-value		0.215

(b) Elachista, Ectocarpus and Pilayella.

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Soranthera ulvoidea (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Crustose Browns N	C	SE	N	O	SE	CV	D	P	Ralfsia/Petroderma (P) (a) N	C	SE	N	O	SE	CV	D	P
19C/19	1	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000
1642C/833	1	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	0.00	0.00	11	0.00	0.00	-	o	1.000
4537C/979	1	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	8	0.48	0.48	11	0.00	0.00	-	+	0.351	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000
1642C/833	2	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	0.00	0.00	9	0.00	0.00	-	o	1.000
4537C/979	2	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.17	0.17		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.395	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.404	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	3	6	1.25	1.25	10	0.25	0.25	-	+	0.468	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	0.00	0.00	10	0.00	0.00	-	o	1.000
1642C/833	3	12	0.00	0.00	7	0.00	0.00	-	o	1.000	12	0.00	0.00	7	4.83	3.58	-	-	0.190	12	0.00	0.00	7	4.83	3.58	-	-	0.190
4537C/979	3	9	0.98	0.83	13	1.06	0.96	-	-	0.874	9	0.00	0.00	13	1.06	0.96	-	-	0.223	9	0.00	0.00	13	1.06	0.96	-	-	0.223
Habitat Means			0.77	0.70		0.47	0.43		+			0.00	0.00		1.97	1.53		-			0.00	0.00		1.97	1.53		-	
Fisher's		Power	0.017		Power-50%		0.028	P-value		0.488	Power	0.052		Power-50%		---	P-value		0.106	Power	0.045		Power-50%		---	P-value		0.106
Stouffer's		Power	0.027		Power-50%		0.053	P-value		0.477	Power	---		Power-50%		---	P-value		0.050	Power	---		Power-50%		---	P-value		0.050

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.64. Algal Percent Cover. Rhodophyta. Prince William Sound. Exposed Rocky. July 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group: Bladed Reds								Rangia sp. (AE)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	10	4.88	2.80	11	0.91	0.70	-	+	0.246	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000
1642C/833	1	15	0.67	0.47	11	4.77	1.67	-	-	0.014	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	0.00	0.00	11	0.00	0.00	-	o	1.000
4537C/979	1	11	2.74	1.54	14	0.63	0.47	-	+	0.233	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			2.77	1.60		2.10	0.97		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.211			Power-50%	0.712	P-value		0.203x	Power	---			Power-50%	---	P-value		0.655	Power	---			Power-50%	---	P-value		0.655
Stouffer's		Power	0.025			Power-50%	0.764	P-value		0.453	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500
19C/19	2	8	11.42	8.73	11	2.27	1.67	-	+	0.251	8	0.79	0.79	11	1.48	1.48	-	-	0.909	8	0.00	0.00	11	0.00	0.00	-	o	1.000
1642C/833	2	12	9.18	5.80	9	12.93	9.55	-	-	0.472	12	0.00	0.00	9	0.14	0.14	-	-	0.347	12	0.00	0.00	9	0.00	0.00	-	o	1.000
4537C/979	2	12	38.34	8.90	14	3.13	2.94	-	+	0.002	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			17.97	7.80		6.10	4.73		+			0.27	0.27		0.53	0.53		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.005	Power	---			Power-50%	---	P-value		0.373	Power	---			Power-50%	---	P-value		0.655
Stouffer's		Power	---			Power-50%	---	P-value		0.006	Power	---			Power-50%	---	P-value		0.315	Power	---			Power-50%	---	P-value		0.500
19C/19	3	6	12.10	4.79	10	12.26	5.24	-	-	0.808	6	4.18	3.67	10	3.64	1.11	-	+	0.742	6	0.00	0.00	10	0.00	0.00	-	o	1.000
1642C/833	3	12	3.55	2.27	7	7.86	4.60	-	-	0.335	12	0.00	0.00	7	5.73	2.94	-	-	0.050	12	0.00	0.00	7	0.00	0.00	-	o	1.000
4537C/979	3	9	30.29	6.17	13	18.28	7.22	-	+	0.200	9	0.14	0.14	13	5.20	2.36	-	-	0.043	9	0.00	0.00	13	0.00	0.00	-	o	1.000
Habitat Means			15.33	4.43		12.83	5.67		-			1.43	1.27		4.83	2.13		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.050			Power-50%	0.726	P-value		0.470 y	Power	---			Power-50%	---	P-value		0.014	Power	---			Power-50%	---	P-value		0.655
Stouffer's		Power	0.013			Power-50%	0.757	P-value		0.709	Power	---			Power-50%	---	P-value		0.005	Power	---			Power-50%	---	P-value		0.500

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Gigartinaceae Group (P) (a)								Palmaria spp. (A)								Phycodrys riggii (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000
1642C/833	1	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	0.00	0.00	11	0.00	0.00	-	o	1.000
4537C/979	1	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.655	Power	---			Power-50%	---	P-value		0.655	Power	---			Power-50%	---	P-value		0.655
Stouffer's		Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500
19C/19	2	8	0.00	0.00	11	0.35	0.35	-	-	0.341	8	0.00	0.00	11	1.14	1.14	-	-	0.341	8	0.00	0.00	11	0.00	0.00	-	o	1.000
1642C/833	2	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	0.00	0.00	9	0.14	0.14	-	-	0.347	12	0.00	0.00	9	0.00	0.00	-	o	1.000
4537C/979	2	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.13	0.13		-			0.00	0.00		0.40	0.40		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.389	Power	---			Power-50%	---	P-value		0.208	Power	---			Power-50%	---	P-value		0.655
Stouffer's		Power	---			Power-50%	---	P-value		0.402	Power	---			Power-50%	---	P-value		0.242	Power	---			Power-50%	---	P-value		0.500
19C/19	3	6	0.00	0.00	10	0.50	0.50	-	-	0.343	6	0.22	0.22	10	3.14	1.03	-	-	0.046	6	0.00	0.00	10	0.00	0.00	-	o	1.000
1642C/833	3	12	0.00	0.00	7	2.33	2.33	-	-	0.356	12	0.00	0.00	7	3.04	1.39	-	-	0.042	12	0.00	0.00	7	0.19	0.19	-	-	0.356
4537C/979	3	9	0.00	0.00	13	3.95	2.19	-	-	0.060	9	0.14	0.14	13	1.16	0.56	-	-	0.182	9	0.00	0.00	13	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		2.27	1.67		-			0.10	0.10		2.43	1.00		-			0.00	0.00		0.07	0.07		-	
Fisher's		Power	---			Power-50%	---	P-value		0.030	Power	---			Power-50%	---	P-value		0.003	Power	---			Power-50%	---	P-value		0.399
Stouffer's		Power	---			Power-50%	---	P-value		0.012	Power	---			Power-50%	---	P-value		0.004	Power	---			Power-50%	---	P-value		0.329

(a) Chondrus, Iridaea, Mastocarpus and Rhodoglossum.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.64. Algal Percent Cover. Rhodophyta. Prince William Sound. Exposed Rocky. July 1991. Undisturbed. (Continued.)

		Porphyra sp. (A)								Tokidadendron kurilensis (A)								Morphological Group: Coarse Filamentous Reds							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
19C/19	1	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	4.88	2.80	11	0.91	0.70	-	+	0.246
1642C/833	1	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	0.67	0.47	11	3.86	1.63	-	-	0.047
4537C/979	1	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	2.74	1.54	14	0.63	0.47	-	+	0.233
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			2.77	1.60		1.80	0.93		+	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	0.230		Power-50%		0.719	P-value		0.201x
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	0.056		Power-50%		0.782	P-value		0.363
19C/19	2	8	0.79	0.79	11	0.00	0.00	-	+	0.351	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	2.35	1.65	11	0.12	0.12	-	-	0.242
1642C/833	2	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	7.09	4.84	9	9.73	6.98	-	-	0.487
4537C/979	2	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	33.34	8.90	14	2.77	2.59	-	+	0.002
Habitat Means			0.27	0.27		0.00	0.00		+			0.00	0.00		0.00	0.00		o			14.27	5.13		4.20	3.23		+	
Fisher's		Power	---		Power-50%		---	P-value		0.395	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.005
Stouffer's		Power	---		Power-50%		---	P-value		0.404	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.005
19C/19	3	6	3.97	3.71	10	0.00	0.00	-	+	0.265	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	7.95	4.50	10	8.64	4.45	-	-	0.886
1642C/833	3	12	0.00	0.00	7	0.00	0.00	-	o	1.000	12	0.00	0.00	7	0.19	0.19	-	-	0.356	12	3.44	2.28	7	2.14	1.76	-	-	0.750
4537C/979	3	9	0.00	0.00	13	0.00	0.00	-	o	1.000	9	0.00	0.00	13	0.10	0.10	-	-	0.337	9	23.21	5.46	13	2.89	1.53	-	-	0.000
Habitat Means			1.33	1.23		0.00	0.00		+			0.00	0.00		0.10	0.10		-			11.53	4.10		4.53	2.60		-	
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.338	Power	---		Power-50%		---	P-value		0.210	Power	---		Power-50%		---	P-value		0.002
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.386	Power	---		Power-50%		---	P-value		0.106	Power	---		Power-50%		---	P-value		0.001

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Cryptosiphonia woodii (A)								Endocladia muricata (P)								Gloiopeltis furcata (A)							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
19C/19	1	10	0.00	0.00	11	0.23	0.23	-	-	0.341	10	0.38	0.38	11	0.00	0.00	-	+	0.343	10	0.75	0.53	11	0.00	0.00	-	+	0.175
1642C/833	1	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	0.00	0.00	11	3.53	1.59	-	-	0.042	15	0.42	0.42	11	0.12	0.12	-	-	0.766
4537C/979	1	11	0.80	0.80	14	0.00	0.00	-	+	0.341	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.00	0.00	14	0.18	0.18	-	-	0.336
Habitat Means			0.27	0.27		0.07	0.07		-			0.13	0.13		1.17	0.53		-			0.40	0.30		0.10	0.10		+	
Fisher's		Power	---		Power-50%		---	P-value		0.506 y	Power	0.088		Power-50%		---	P-value		0.147	Power	0.026		Power-50%		0.049	P-value		0.307
Stouffer's		Power	---		Power-50%		---	P-value		0.709	Power	0.010		Power-50%		---	P-value		0.233	Power	0.025		Power-50%		0.075	P-value		0.622
19C/19	2	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000
1642C/833	2	12	0.94	0.67	9	0.00	0.00	-	+	0.173	12	0.00	0.00	9	0.28	0.28	-	-	0.347	12	0.21	0.21	9	0.70	0.48	-	-	0.349
4537C/979	2	12	0.00	0.00	14	0.18	0.18	-	-	0.336	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.18	0.18	-	-	0.336
Habitat Means			0.30	0.23		0.07	0.07		+			0.00	0.00		0.10	0.10		-			0.07	0.07		0.30	0.23		-	
Fisher's		Power	0.003		Power-50%		0.005	P-value		0.354	Power	---		Power-50%		---	P-value		0.393	Power	0.074		Power-50%		---	P-value		0.207
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.561	Power	---		Power-50%		---	P-value		0.326	Power	0.107		Power-50%		---	P-value		0.105
19C/19	3	6	1.47	1.05	10	0.89	0.62	-	+	0.684	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	0.00	0.00	10	0.00	0.00	-	o	1.000
1642C/833	3	12	0.94	0.52	7	0.00	0.00	-	+	0.085	12	0.00	0.00	7	0.00	0.00	-	o	1.000	12	0.00	0.00	7	0.00	0.00	-	o	1.000
4537C/979	3	9	3.89	2.47	13	1.16	1.06	-	+	0.180	9	0.00	0.00	13	0.00	0.00	-	o	1.000	9	0.00	0.00	13	0.00	0.00	-	o	1.000
Habitat Means			2.10	1.37		0.70	0.57		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.039	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.020	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.64. Algal Percent Cover. Rhodophyta. Prince William Sound. Exposed Rocky. July 1991. Undisturbed. (Continued.)

		Neorhodomela/Rhodomela (P) (a)								Odonthalia floccosa (P)								Ptilota/Neoptilota (P) (b)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	10	2.00	2.00	11	0.23	0.23	-	+	0.525	10	1.75	1.75	11	0.45	0.45	-	-	0.630	10	0.00	0.00	11	0.00	0.00	-	o	1.000
1642C/833	1	15	0.00	0.00	11	0.23	0.23	-	-	0.341	15	0.25	0.25	11	0.00	0.00	-	-	0.334	15	0.00	0.00	11	0.00	0.00	-	o	1.000
4537C/979	1	11	1.94	1.43	14	0.45	0.45	-	+	0.332	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			1.30	1.13		0.30	0.30		+			0.70	0.70		0.17	0.17		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.032		Power-50%		0.043	P-value		0.355	Power	---		Power-50%		---	P-value		0.296	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.029		Power-50%		0.059	P-value		0.301	Power	---		Power-50%		---	P-value		0.278	Power	---		Power-50%		---	P-value		0.500
19C/19	2	8	2.35	1.65	11	0.00	0.00	-	+	0.178	8	0.00	0.00	11	0.12	0.12	-	-	0.341	8	0.00	0.00	11	0.00	0.00	-	o	1.000
1642C/833	2	12	0.00	0.00	9	2.22	2.22	-	-	0.347	12	5.94	4.74	9	6.39	4.95	-	-	0.786	12	0.00	0.00	9	0.14	0.14	-	-	0.347
4537C/979	2	12	33.34	8.90	14	2.41	2.41	-	+	0.002	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			11.90	3.53		1.53	1.53		+			1.97	1.57		2.17	1.70		-			0.00	0.00		0.03	0.03		-	
Fisher's		Power	---		Power-50%		---	P-value		0.003	Power	0.019		Power-50%		0.000	P-value		0.340	Power	---		Power-50%		---	P-value		0.393
Stouffer's		Power	---		Power-50%		---	P-value		0.006	Power	0.032		Power-50%		0.000	P-value		0.353	Power	---		Power-50%		---	P-value		0.326
19C/19	3	6	5.43	2.87	10	1.50	1.50	-	+	0.134	6	1.05	0.82	10	5.63	4.32	-	-	0.624	6	0.00	0.00	10	0.63	0.63	-	-	0.343
1642C/833	3	12	0.21	0.21	7	1.07	0.74	-	-	0.213	12	2.29	2.07	7	0.90	0.90	-	+	0.754	12	0.00	0.00	7	0.19	0.19	-	-	0.356
4537C/979	3	9	16.54	5.56	13	0.87	0.48	-	+	0.009	9	1.39	0.73	13	0.49	0.31	-	+	0.339	9	1.39	1.39	13	0.38	0.38	-	+	0.567
Habitat Means			7.37	2.90		1.17	0.90		+			1.60	1.20		2.33	1.83		-			0.47	0.47		0.40	0.40		-	
Fisher's		Power	---		Power-50%		---	P-value		0.012	Power	0.090		Power-50%		0.553	P-value		0.396 y	Power	---		Power-50%		---	P-value		0.266 y
Stouffer's		Power	---		Power-50%		---	P-value		0.024	Power	0.075		Power-50%		0.756	P-value		0.205	Power	---		Power-50%		---	P-value		0.417

(b) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Saccate Reds								Halosaccion glandiforme (A)								Morphological Group: Fine Filamentous Reds							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000
1642C/833	1	15	0.00	0.00	11	0.91	0.91	-	-	0.341	15	0.00	0.00	11	0.91	0.91	-	-	0.341	15	0.00	0.00	11	0.00	0.00	-	o	1.000
4537C/979	1	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.30	0.30		-			0.00	0.00		0.30	0.30		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.389	Power	---		Power-50%		---	P-value		0.389	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.324	Power	---		Power-50%		---	P-value		0.324	Power	---		Power-50%		---	P-value		0.500
19C/19	2	8	8.12	8.12	11	0.23	0.23	-	+	0.412	8	8.12	8.12	11	0.23	0.23	-	+	0.412	8	0.16	0.16	11	0.45	0.45	-	-	0.821
1642C/833	2	12	0.00	0.00	9	2.50	2.50	-	-	0.347	12	0.00	0.00	9	2.50	2.50	-	-	0.347	12	2.08	2.08	9	0.00	0.00	-	-	0.339
4537C/979	2	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			2.70	2.70		0.90	0.90		-			2.70	2.70		0.90	0.90		-			0.77	0.77		0.17	0.17		+	
Fisher's		Power	---		Power-50%		---	P-value		0.499 y	Power	---		Power-50%		---	P-value		0.499 y	Power	---		Power-50%		---	P-value		0.424
Stouffer's		Power	---		Power-50%		---	P-value		0.406	Power	---		Power-50%		---	P-value		0.406	Power	---		Power-50%		---	P-value		0.345
19C/19	3	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	0.00	0.00	10	0.00	0.00	-	o	1.000
1642C/833	3	12	0.00	0.00	7	0.00	0.00	-	o	1.000	12	0.00	0.00	7	0.00	0.00	-	o	1.000	12	0.11	0.11	7	0.00	0.00	-	+	0.339
4537C/979	3	9	5.84	3.21	13	2.60	2.02	-	+	0.287	9	5.84	3.21	13	2.60	2.02	-	+	0.287	9	0.28	0.28	13	0.77	0.59	-	-	0.626
Habitat Means			1.93	1.07		0.87	0.67		+			1.93	1.07		0.87	0.67		.			0.13	0.13		0.27	0.20		+	
Fisher's		Power	0.043		Power-50%		0.131	P-value		0.354	Power	0.045		Power-50%		0.117	P-value		0.354	Power	0.001		Power-50%		---	P-value		0.459 y
Stouffer's		Power	0.012		Power-50%		0.041	P-value		0.186	Power	0.011		Power-50%		0.048	P-value		0.186	Power	0.004		Power-50%		---	P-value		0.480

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.64. Algal Percent Cover. Rhodophyta. Prince William Sound. Exposed Rocky. July 1991. Undisturbed. (Continued.)

Site Pair	Mvd	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Crustose Reds N	C	SE	N	O	SE	CV	D	P	Crustose Coralline Algae (P) N	C	SE	N	O	SE	CV	D	P
19C/19	1	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000
1642C/833	1	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	0.00	0.00	11	0.00	0.00	-	o	1.000
4537C/979	1	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	8	0.16	0.16	11	0.45	0.45	-	-	0.821	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000
1642C/833	2	12	2.08	2.08	9	0.00	0.00	-	+	0.339	12	0.00	0.00	9	0.56	0.56	-	-	0.347	12	0.00	0.00	9	0.00	0.00	-	o	1.000
4537C/979	2	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.36	0.36	-	-	0.336	12	0.00	0.00	14	0.36	0.36	-	-	0.336
Habitat Means			0.77	0.77		0.17	0.17		+			0.00	0.00		0.33	0.33		-			0.00	0.00		0.13	0.13		-	
Fisher's		Power	---		Power-50%		---	P-value		0.424	Power	---		Power-50%		---	P-value		0.206	Power	---		Power-50%		---	P-value		0.386
Stouffer's		Power	---		Power-50%		---	P-value		0.345	Power	---		Power-50%		---	P-value		0.104	Power	---		Power-50%		---	P-value		0.210
19C/19	3	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	0.00	0.00	10	0.00	0.00	-	o	1.000
1642C/833	3	12	0.11	0.11	7	0.00	0.00	-	+	0.339	12	0.00	0.00	7	0.00	0.00	-	o	1.000	12	0.00	0.00	7	0.00	0.00	-	o	1.000
4537C/979	3	9	0.28	0.28	13	0.77	0.59	-	-	0.626	9	0.83	0.83	13	6.83	6.23	-	-	0.419	9	0.83	0.83	13	0.58	0.58	-	+	0.796
Habitat Means			0.13	0.13		0.27	0.20		-			0.27	0.27		2.27	2.07		-			0.27	0.27		0.20	0.20		+	
Fisher's		Power	0.002		Power-50%		---	P-value		0.459 y	Power	0.000		Power-50%		---	P-value		0.435	Power	---		Power-50%		---	P-value		0.594
Stouffer's		Power	0.005		Power-50%		---	P-value		0.480	Power	0.000		Power-50%		---	P-value		0.249	Power	---		Power-50%		---	P-value		0.414

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Hildenbrandia sp. (P) N	C	SE	N	O	SE	CV	D	P	Petrocelis (P) N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	-	o	1.000									
1642C/833	1	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	0.00	0.00	-	o	1.000									
4537C/979	1	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
19C/19	2	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000								
1642C/833	2	12	0.00	0.00	9	0.56	0.56	-	-	0.347	12	0.00	0.00	9	0.00	0.00	-	o	1.000								
4537C/979	2	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000								
Habitat Means			0.00	0.00		0.20	0.20		-			0.00	0.00		0.00	0.00		o								
Fisher's		Power	---		Power-50%		---	P-value		0.393	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.326	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
19C/19	3	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	0.00	0.00	10	0.00	0.00	-	o	1.000								
1642C/833	3	12	0.00	0.00	7	0.00	0.00	-	o	1.000	12	0.00	0.00	7	0.00	0.00	-	o	1.000								
4537C/979	3	9	0.00	0.00	13	6.25	6.25	-	-	0.337	9	0.00	0.00	13	0.00	0.00	-	o	1.000								
Habitat Means			0.00	0.00		2.10	2.10		-			0.00	0.00		0.00	0.00		o								
Fisher's		Power	---		Power-50%		---	P-value		0.387	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.211	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.65. Algal Percent Cover. Invertebrates. Prince William Sound. Exposed Rocky. July 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Actiniidae								Balanomorpha								Lottiidae							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	4.25	2.71	11	4.44	2.54	-	-	0.904	10	0.50	0.50	11	0.00	0.00	-	+	0.343
1642C/833	1	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	7.17	4.26	11	17.16	7.52	-	-	0.192	15	0.00	0.00	11	0.00	0.00	-	o	1.000
4537C/979	1	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.45	0.45	14	2.24	1.51	-	-	0.362	11	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			4.00	2.50		7.93	3.83		-			0.17	0.17		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.408		Power-50%		0.529	P-value		0.138	Power	---		Power-50%		---	P-value		0.391
Stouffer's		Power			ow	50%	---	P-value		0.500	Power	---		Power-50%		---	P-value		0.078	Power	---		Power-50%		---	P-value		0.402
19C/19	2	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	8.29	6.42	11	15.80	7.79	-	-	0.376	8	0.00	0.00	11	0.00	0.00	-	o	1.000
1642C/833	2	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	3.23	1.79	9	20.28	11.61	-	-	0.203	12	0.00	0.00	9	0.00	0.00	-	o	1.000
4537C/979	2	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	3.87	1.61	14	2.50	1.57	-	+	0.248	12	0.00	0.00	14	0.36	0.28	-	-	0.180
Habitat Means			0.00	0.00		0.00	0.00		o			5.13	3.27		12.87	7.00		-			0.00	0.00		0.13	0.10		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.210		Power-50%		0.742	P-value		0.225	Power	0.001		Power-50%		---	P-value		0.270
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.158		Power-50%		0.785	P-value		0.550	Power	0.000		Power-50%		---	P-value		0.131
19C/19	3	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	2.92	1.19	10	16.13	10.72	-	-	0.509	6	0.00	0.00	10	0.00	0.00	-	o	1.000
1642C/833	3	12	0.00	0.00	7	0.00	0.00	-	o	1.000	12	4.37	3.71	7	2.69	2.69	-	.	0.700	12	0.00	0.00	7	0.00	0.00	-	o	1.000
4537C/979	3	9	0.00	0.00	13	0.00	0.00	-	o	1.000	9	2.64	1.36	13	3.85	2.66	-	-	0.853	9	0.14	0.14	13	0.10	0.10	-	+	0.796
Habitat Means			0.00	0.00		0.00	0.00		o			3.30	2.10		7.57	5.37		-			0.03	0.03		0.03	0.03		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.023		Power-50%		0.816	P-value		0.506	Power	---		Power-50%		---	P-value		0.594 y
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.064		Power-50%		0.868	P-value		0.443	Power	---		Power-50%		---	P-value		0.414

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Mytilus								Mucella lamellosa								Littorinidae							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	10	3.13	1.95	11	0.00	0.00	-	+	0.105	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000
1642C/833	1	15	0.09	0.09	11	3.86	3.38	-	-	0.210	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	0.00	0.00	11	0.00	0.00	-	o	1.000
4537C/979	1	11	0.23	0.23	14	0.00	0.00	-	+	0.341	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	1.71	1.17	14	1.07	1.07	-	+	0.553
Habitat Means			1.13	0.77		1.30	1.13		+			0.00	0.00		0.00	0.00		o			0.57	0.40		0.37	0.37		+	
Fisher's		Power	0.021		Power-50%		0.169	P-value		0.140 y	Power	---		Power-50%		---	P-value		0.655	Power	0.003		Power-50%		0.019	P-value		0.501
Stouffer's		Power	0.029		Power-50%		0.249	P-value		0.268	Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.005	P-value		0.310
19C/19	2	8	2.35	1.87	11	0.00	0.00	-	+	0.198	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000
1642C/833	2	12	2.19	1.49	9	9.03	5.49	-	-	0.286	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	0.00	0.00	9	0.00	0.00	-	o	1.000
4537C/979	2	12	1.57	0.71	14	1.26	1.00	-	-	0.483	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	1.46	1.00	14	0.81	0.58	-	+	0.692
Habitat Means			2.07	1.37		3.43	2.17		+			0.00	0.00		0.00	0.00		o			0.50	0.33		0.27	0.20		+	
Fisher's		Power	0.081		Power-50%		0.793	P-value		0.255 y	Power	---		Power-50%		---	P-value		0.655	Power	0.005		Power-50%		0.016	P-value		0.557
Stouffer's		Power	0.060		Power-50%		0.859	P-value		0.340	Power	---		Power-50%		---	P-value		0.500	Power	0.001		Power-50%		0.002	P-value		0.370
19C/19	3	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	0.00	0.00	10	0.00	0.00	-	o	1.000
1642C/833	3	12	0.21	0.21	7	0.00	0.00	-	+	0.339	12	0.00	0.00	7	0.00	0.00	-	o	1.000	12	0.21	0.21	7	0.00	0.00	-	-	0.339
4537C/979	3	9	0.00	0.00	13	0.00	0.00	-	o	1.000	9	0.00	0.00	13	0.00	0.00	-	o	1.000	9	0.00	0.00	13	0.00	0.00	-	o	1.000
Habitat Means			0.07	0.07		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.07	0.07		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.388	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.388
Stouffer's		Power	---		Power-50%		---	P-value		0.323	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.323

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.65. Algal Percent Cover. Invertebrates. Prince William Sound. Exposed Rocky. July 1991. Undisturbed. (Continued.)

		Mollusca																											
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
1642C/833	1	15	0.00	0.00	11	0.00	0.00	-	o	1.000																		
4537C/979	1	11	0.00	0.00	14	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
19C/19	2	8	0.00	0.00	11	0.00	0.00	-	o	1.000																		
1642C/833	2	12	0.00	0.00	9	0.00	0.00	-	o	1.000																		
4537C/979	2	12	0.11	0.11	14	0.00	0.00	-	+	0.339																		
Habitat Means			0.03	0.03		0.00	0.00		+																			
Fisher's		Power	---		Power-50%		---	P-value		0.388	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.211	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
19C/19	3	6	0.00	0.00	10	0.00	0.00	-	o	1.000																		
1642C/833	3	12	0.00	0.00	7	0.00	0.00	-	o	1.000																		
4537C/979	3	9	0.00	0.00	13	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.66. Algal Percent Cover. Substrates. Prince William Sound. Exposed Rocky. July 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Rock								Mud								*Sand*							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
19C/19	1	10	67.26	11.29	11	69.66	8.45	-	-	0.845	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000
1642C/833	1	15	71.35	9.48	11	52.39	13.18	-	+	0.188	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	0.00	0.00	11	0.00	0.00	-	o	1.000
4537C/979	1	11	71.15	11.42	14	95.81	2.30	-	-	0.058	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			69.97	10.73		72.63	8.00		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.144		Power-50%		0.922	P-value		0.174	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.059		Power-50%		0.935	P-value		0.157	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	8	71.26	13.99	11	42.85	9.32	-	+	0.105	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000
1642C/833	2	12	35.74	10.21	9	35.57	12.80	-	+	0.936	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	0.00	0.00	9	0.00	0.00	-	o	1.000
4537C/979	2	12	21.88	6.15	14	80.99	7.19	-	-	0.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.11	0.11	14	0.00	0.00	-	+	0.339
Habitat Means			42.97	10.13		53.17	9.77		+			0.00	0.00		0.00	0.00		o			0.03	0.03		0.00	0.00		+	
Fisher's		Power	0.031		Power-50%		0.644	P-value		0.284xy	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.388
Stouffer's		Power	0.001		Power-50%		0.689	P-value		0.997	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.211
19C/19	3	6	47.72	17.42	10	32.51	12.11	-	+	0.596	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	0.00	0.00	10	0.00	0.00	-	o	1.000
1642C/833	3	12	16.78	3.91	7	32.33	16.52	-	-	0.612	12	0.00	0.00	7	0.00	0.00	-	o	1.000	12	8.33	8.33	7	0.00	0.00	-	-	0.339
4537C/979	3	9	16.82	5.82	13	34.52	10.01	-	-	0.266	9	0.00	0.00	13	0.00	0.00	-	o	1.000	9	0.00	0.00	13	0.00	0.00	-	o	1.000
Habitat Means			27.10	9.03		33.10	12.87		-			0.00	0.00		0.00	0.00		o			2.77	2.77		0.00	0.00		+	
Fisher's		Power	0.088		Power-50%		0.804	P-value		0.311	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.388
Stouffer's		Power	0.071		Power-50%		0.838	P-value		0.150	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.323

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Shell Fragments								Water								*Zostera/Phyllospadix*							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
19C/19	1	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000
1642C/833	1	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	0.00	0.00	11	0.00	0.00	-	o	1.000
4537C/979	1	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000
1642C/833	2	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	0.00	0.00	9	0.00	0.00	-	o	1.000
4537C/979	2	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	0.00	0.00	14	0.00	0.00	-	o	1.000	12	1.36	1.36	14	0.81	0.81	-	+	0.809
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.47	0.47		0.27	0.27		+	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.598
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.420
19C/19	3	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	0.00	0.00	10	0.00	0.00	-	o	1.000
1642C/833	3	12	0.00	0.00	7	0.00	0.00	-	o	1.000	12	0.00	0.00	7	0.00	0.00	-	o	1.000	12	0.00	0.00	7	0.00	0.00	-	o	1.000
4537C/979	3	9	0.00	0.00	13	0.19	0.19	-	-	0.337	9	6.26	6.26	13	1.15	1.15	-	+	0.535	9	10.28	5.29	13	7.60	7.39	-	-	0.615
Habitat Means			0.00	0.00		0.07	0.07		-			2.10	2.10		0.40	0.40		+			3.43	1.77		2.53	2.47		-	
Fisher's		Power	---		Power-50%		---	P-value		0.387	Power	---		Power-50%		---	P-value		0.493	Power	0.008		Power-50%	0.065		P-value		0.527
Stouffer's		Power	---		Power-50%		---	P-value		0.211	Power	---		Power-50%		---	P-value		0.302	Power	0.001		Power-50%	0.006		P-value		0.337

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.66. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Exposed Rocky. July 1991. Undisturbed. (Continued.)

		Sand and Mud								Total Substrate															
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	67.26	11.29	11	69.66	8.45	-	-	0.845									
1642C/833	1	15	0.00	0.00	11	0.00	0.00	-	o	1.000	15	71.35	9.48	11	52.39	13.18	-	-	0.188									
4537C/979	1	11	0.00	0.00	14	0.00	0.00	-	o	1.000	11	71.15	11.42	14	95.81	2.30	-	-	0.058									
Habitat Means			0.00	0.00		0.00	0.00		o			69.97	10.73		72.63	8.00		-										
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.150		Power-50%		0.917	P-value		0.174	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.064		Power-50%		0.944	P-value		0.157	Power	---		Power-50%		---	P-value		
19C/19	2	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	71.26	13.99	11	42.85	9.32	-	+	0.105									
1642C/833	2	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	35.74	10.21	9	35.57	12.80	-	+	0.936									
4537C/979	2	12	0.11	0.11	14	0.00	0.00	-	+	0.339	12	21.99	6.13	14	80.99	7.19	-	-	0.000									
Habitat Means			0.03	0.03		0.00	0.00		+			43.00	10.10		53.17	9.77		+										
Fisher's		Power	---		Power-50%		---	P-value		0.388	Power	0.031		Power-50%		0.636	P-value		0.284xy	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.211	Power	0.001		Power-50%		0.678	P-value		0.997	Power	---		Power-50%		---	P-value		
19C/19	3	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	47.72	17.42	10	32.51	12.11	-	+	0.396									
1642C/833	3	12	8.33	8.33	7	0.00	0.00	+	+	0.339	12	25.11	7.70	7	32.33	16.52	-	+	0.987									
4537C/979	3	9	6.26	6.26	13	1.35	1.15	-	+	0.616	9	23.08	6.83	13	35.87	9.87	-	-	0.493									
Habitat Means			4.87	4.87		0.47	0.40		+			31.97	10.63		33.57	12.83		-										
Fisher's		Power	0.010		Power-50%		---	P-value		0.295	Power	0.036		Power-50%		0.770	P-value		0.554	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.021		Power-50%		---	P-value		0.190	Power	0.031		Power-50%		0.805	P-value		0.328	Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.67. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Sheltered Rocky. May 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Algal Diversity Index (a)								Algal Taxa Richness (b)								Total Algae							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	0.12	0.05	12	0.16	0.06	-	-	0.623	12	1.58	0.31	12	1.58	0.51	-	o	1.000	12	43.65	8.64	12	30.84	9.85	-	+	0.246
14.2C/14.2	1	12	0.15	0.05	10	0.35	0.07	-	-	0.024	12	2.00	0.51	10	3.30	0.47	-	-	0.080	12	46.78	10.58	10	41.38	7.22	-	+	0.930
62762C/50983	1	12	0.10	0.04	12	0.01	0.01	-	+	0.053	12	1.50	0.29	12	0.83	0.17	-	+	0.058	12	38.34	10.21	12	42.82	10.50	-	-	0.871
Habitat Means			0.12	0.05		0.18	0.05		-			1.69	0.37		1.91	0.38		+			42.93	9.80		38.33	9.20		+	
Fisher's		Power	---		Power-50%		---	P-value		0.082x	Power	0.205		Power-50%		0.994	P-value		0.201xy	Power	0.119		Power-50%		0.815	P-value		0.334
Stouffer's		Power	0.014		Power-50%		0.783	P-value		0.839	Power	0.222		Power-50%		0.989	P-value		0.108	Power	0.094		Power-50%		0.808	P-value		0.418
14.1C/14.1	2	12	0.40	0.07	12	0.31	0.06	-	-	0.365	12	4.33	0.67	12	3.58	0.50	-	-	0.378	12	67.83	10.74	12	61.56	7.78	-	+	0.627
14.2C/14.2	2	11	0.30	0.06	10	0.43	0.07	-	-	0.167	11	3.55	0.49	10	4.50	0.82	-	-	0.321	11	70.02	9.02	10	43.88	7.97	-	+	0.042
62762C/50983	2	11	0.25	0.08	12	0.07	0.03	-	+	0.049	11	2.91	0.59	12	1.50	0.26	-	+	0.036	11	60.58	9.55	12	60.00	11.09	-	+	0.906
Habitat Means			0.31	0.07		0.27	0.05		+			3.60	0.59		3.19	0.53		+			66.13	9.77		55.17	8.97		-	
Fisher's		Power	---		Power-50%		---	P-value		0.088	Power	---		Power-50%		---	P-value		0.069	Power	---		Power-50%		---	P-value		0.070
Stouffer's		Power	---		Power-50%		---	P-value		0.048	Power	---		Power-50%		---	P-value		0.030	Power	0.091		Power-50%		0.702	P-value		0.204
14.1C/14.1	3	12	0.59	0.05	10	0.64	0.08	-	-	0.608	12	6.83	0.61	10	7.30	0.90	-	-	0.663	12	69.08	6.98	10	83.39	6.11	-	-	0.076
14.2C/14.2	3	7	0.51	0.06	10	0.67	0.07	-	-	0.131	7	5.29	0.36	10	8.30	0.86	-	-	0.013	7	98.59	0.43	10	80.89	5.06	-	+	0.001
62762C/50983	3	11	0.45	0.08	10	0.28	0.07	-	+	0.145	11	5.36	0.96	10	3.50	0.64	-	+	0.129	11	57.05	8.37	10	70.63	10.96	-	-	0.237
Habitat Means			0.52	0.06		0.53	0.08		-			5.83	0.64		6.37	0.80		-			74.93	5.27		78.30	7.40		-	
Fisher's		Power	0.047		Power-50%		1.000	P-value		0.240	Power	---		Power-50%		---	P-value		0.055	Power	---		Power-50%		---	P-value		0.094x
Stouffer's		Power	0.006		Power-50%		1.000	P-value		0.776	Power	0.004		Power-50%		1.000	P-value		0.713	Power	0.206		Power-50%		1.000	P-value		0.255

(a) Modified Shannon Index.
(b) Taxa richness calculations are explained in the methods.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Invertebrates								Rock								Perennials (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	2.72	1.74	12	7.30	3.26	-	-	0.235	12	52.62	8.95	12	61.57	10.75	-	-	0.424	12	43.65	8.64	12	20.11	7.19	-	+	0.051
14.2C/14.2	1	12	18.55	5.55	10	9.00	3.32	-	+	0.337	12	34.59	10.64	10	49.63	6.95	-	-	0.310	12	19.90	7.86	10	8.88	2.93	-	+	0.427
62762C/50983	1	12	25.52	7.27	12	17.40	3.09	-	+	0.338	12	36.16	10.54	12	39.80	9.42	-	-	0.786	12	36.36	10.33	12	42.82	10.50	-	-	0.715
Habitat Means			15.60	4.87		11.23	3.23		+			41.13	10.03		50.33	9.07		-			33.33	8.93		23.93	6.87		+	
Fisher's		Power	0.066		Power-50%		0.723	P-value		0.288	Power	0.408		Power-50%		0.571	P-value		0.191	Power	---		Power-50%		---	P-value		0.079
Stouffer's		Power	0.012		Power-50%		0.741	P-value		0.208	Power	0.257		Power-50%		0.583	P-value		0.222	Power	0.157		Power-50%		0.628	P-value		0.326
14.1C/14.1	2	12	9.28	6.39	12	5.43	2.23	-	+	0.728	12	22.31	9.54	12	31.06	7.47	-	-	0.407	12	49.28	10.98	12	55.11	8.51	-	+	0.823
14.2C/14.2	2	11	23.31	9.62	10	26.15	7.50	-	-	0.625	11	5.57	2.13	10	26.02	6.04	-	-	0.005	11	60.57	9.30	10	31.01	7.36	-	+	0.025
62762C/50983	2	11	18.44	5.07	12	14.38	4.77	-	+	0.429	11	20.69	7.78	12	22.08	6.66	-	-	0.892	11	40.81	9.21	12	58.02	10.69	-	-	0.205
Habitat Means			17.00	7.03		15.33	4.83		+			16.20	6.47		26.40	6.73		-			50.23	9.83		48.03	8.87		-	
Fisher's		Power	0.051		Power-50%		0.520	P-value		0.440	Power	---		Power-50%		---	P-value		0.010	Power	0.062		Power-50%		0.695	P-value		0.384xy
Stouffer's		Power	0.081		Power-50%		0.534	P-value		0.247	Power	0.518		Power-50%		0.575	P-value		0.122	Power	0.113		Power-50%		0.695	P-value		0.280
14.1C/14.1	3	12	17.10	5.62	10	3.88	1.83	-	-	0.032	12	12.72	3.26	10	11.64	4.40	-	-	0.521	12	41.27	7.12	10	50.26	9.30	-	-	0.449
14.2C/14.2	3	7	0.36	0.36	10	5.25	4.21	-	-	0.253	7	1.09	0.43	10	12.39	4.37	-	-	0.020	7	48.41	12.31	10	45.38	4.64	-	+	0.969
62762C/50983	3	11	18.07	4.34	10	12.63	6.45	-	+	0.271	11	24.45	7.87	10	15.53	5.67	-	-	0.397	11	23.88	5.36	10	46.62	6.69	-	-	0.016
Habitat Means			11.87	3.43		7.27	4.17		+			12.77	3.87		13.17	4.83		-			37.87	8.27		47.43	6.87		-	
Fisher's		Power	---		Power-50%		---	P-value		0.051	Power	0.094		Power-50%		0.746	P-value		0.429xy	Power	---		Power-50%		---	P-value		0.030
Stouffer's		Power	---		Power-50%		---	P-value		0.098	Power	0.154		Power-50%		0.726	P-value		0.384	Power	---		Power-50%		---	P-value		0.008

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.67. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Sheltered Rocky. May 1991. Undisturbed. (Continued.)

		Annuals (A)							Ephemerals (AE)														
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.2C/14.2	1	12	26.88	10.38	10	32.51	7.65	-	-	0.533	12	0.21	0.21	10	21.64	6.91	-	-	0.002									
62762C/50983	1	12	1.98	1.15	12	0.00	0.00	-	-	0.062	12	1.25	1.04	12	0.00	0.00	-	+	0.200									
Habitat Means			9.63	3.87		14.40	4.17		-			0.50	0.40		7.20	2.30		-										
Fisher's		Power	0.181		Power-50%		0.262	P-value		0.106x	Power	---		Power-50%		---	P-value		0.018	Power	---		Power-50%		---			
Stouffer's		Power	0.002		Power-50%		0.102	P-value		0.828	Power	0.000		Power-50%		0.005	P-value		0.616	Power	---		Power-50%		---			
14.1C/14.1	2	12	18.55	7.72	12	6.47	1.99	-	+	0.368	12	0.63	0.45	12	0.42	0.28	-	+	0.846									
14.2C/14.2	2	11	9.45	3.63	10	11.76	3.83	-	-	0.705	11	0.35	0.25	10	4.89	1.74	-	-	0.020									
62762C/50983	2	11	19.79	8.98	12	1.98	1.26	-	+	0.047	11	4.90	3.11	12	1.25	0.90	-	+	0.309									
Habitat Means			15.97	6.77		6.77	2.37		+			1.97	1.30		2.20	0.97		+										
Fisher's		Power	---		Power-50%		---	P-value		0.067	Power	0.025		Power-50%		0.496	P-value		0.484xy	Power	---		Power-50%		---			
Stouffer's		Power	---		Power-50%		---	P-value		0.025	Power	0.051		Power-50%		0.637	P-value		0.372	Power	---		Power-50%		---			
14.1C/14.1	3	12	27.83	6.76	10	33.14	9.97	-	-	0.772	12	8.13	2.89	10	14.63	7.01	-	-	0.557									
14.2C/14.2	3	7	50.19	12.44	10	35.03	6.62	-	+	0.215	7	3.23	1.84	10	6.51	1.99	-	-	0.299									
62762C/50983	3	11	33.19	9.47	10	24.02	7.93	-	+	0.507	11	3.08	1.78	10	4.02	1.42	-	-	0.450									
Habitat Means			37.07	9.57		30.70	8.17		+			4.80	2.17		8.37	3.47		-										
Fisher's		Power	0.098		Power-50%		0.634	P-value		0.225	Power	0.270		Power-50%		0.662	P-value		0.155	Power	---		Power-50%		---			
[illegible]		Power	0.068		Power-50%		0.642	P-value		0.190	Power	0.244		Power-50%		0.722	P-value		0.124	Power	---		Power-50%		---			

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.68. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Sheltered Rocky. May 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group: Bladed Greens								Bladed Greens (AE) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	1	12	0.00	0.00	10	21.64	6.91	-	-	0.002	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	1	12	0.42	0.28	12	0.00	0.00	-	+	0.166	12	0.21	0.21	12	0.00	0.00	-	+	0.339	12	0.21	0.21	12	0.00	0.00	-	+	0.339
Habitat Means			0.13	0.10		7.20	2.30		-			0.07	0.07		0.00	0.00		,			0.07	0.07		0.00	0.00		·	
Fisher's		Power	---		Power-50%		---	P-value		0.016	Power	---		Power-50%		---	P-value		0.388	Power	---		Power-50%		---	P-value		0.388
Stouffer's		Power	0.000		Power-50%		0.028	P-value		0.645	Power	---		Power-50%		---	P-value		0.191	Power	---		Power-50%		---	P-value		0.191
14.1C/14.1	2	12	0.94	0.52	12	0.42	0.28	-	+	0.490	12	0.52	0.36	12	0.32	0.23	-	+	0.791	12	0.52	0.36	12	0.32	0.23	-	-	0.791
14.2C/14.2	2	11	0.23	0.23	10	4.26	1.66	-	-	0.018	11	0.00	0.00	10	1.76	0.90	-	-	0.047	11	0.00	0.00	10	1.76	0.90	-	-	0.047
62762C/50983	2	11	8.31	6.06	12	0.42	0.42	-	+	0.179	11	2.62	2.49	12	0.42	0.42	-	+	0.450	11	2.62	2.49	12	0.42	0.42	-	·	0.450
Habitat Means			3.13	2.27		1.70	0.80		+			1.03	0.97		0.83	0.50		+			1.03	0.97		0.83	0.50		-	
Fisher's		Power	0.070		Power-50%		0.372	P-value		0.264x	Power	0.003		Power-50%		0.017	P-value		0.558x	Power	0.005		Power-50%		0.026	P-value		0.558x
Stouffer's		Power	0.157		Power-50%		0.618	P-value		0.225	Power	0.028		Power-50%		0.186	P-value		0.421	Power	0.030		Power-50%		0.215	P-value		0.421
14.1C/14.1	3	12	8.03	3.00	10	15.13	7.02	-	-	0.454	12	7.93	2.93	10	13.50	7.02	-	-	0.583	12	7.93	2.93	10	13.50	7.02	-	-	0.583
14.2C/14.2	3	7	6.44	3.42	10	7.14	2.54	-	-	0.642	7	0.56	0.26	10	5.26	1.86	-	-	0.046	7	0.56	0.26	10	5.26	1.86	-	-	0.046
62762C/50983	3	11	3.08	1.78	10	2.89	1.21	-	+	0.800	11	1.72	0.85	10	2.26	1.02	-	-	0.624	11	1.72	0.85	10	2.26	1.02	-	-	0.624
Habitat Means			5.83	2.73		8.37	3.57		-			3.40	1.37		7.03	3.30		-			3.40	1.37		7.03	3.30		-	
Fisher's		Power	0.138		Power-50%		0.672	P-value		0.395	Power	---		Power-50%		---	P-value		0.055	Power	---		Power-50%		---	P-value		0.055
Stouffer's		Power	0.156		Power-50%		0.731	P-value		0.455	Power	0.216		Power-50%		0.889	P-value		0.120	Power	0.214		Power-50%		0.863	P-value		0.120

(a) Kornmannia, Monostroma, Ulva and Ulvaria.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Fine Filamentous Greens								Acrosiphonia sp. (A)								Chaetomorpha/Rhizoclonium (A) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	1	12	0.00	0.00	10	19.39	6.83	-	-	0.007	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	1	12	0.21	0.21	12	0.00	0.00	-	+	0.339	12	0.21	0.21	12	0.00	0.00	-	+	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.07	0.07		6.47	2.27		-			0.07	0.07		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.044	Power	---		Power-50%		---	P-value		0.388	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.000		Power-50%		---	P-value		0.544	Power	---		Power-50%		---	P-value		0.191	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	12	0.42	0.42	12	0.11	0.11	-	·	0.664	12	0.42	0.42	12	0.00	0.00	-	+	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	2	11	0.00	0.00	10	2.50	1.49	-	-	0.099	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	2	11	3.53	3.40	12	0.00	0.00	-	-	0.267	11	3.53	3.40	12	0.00	0.00	-	+	0.267	11	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			1.30	1.27		0.87	0.53		+			1.30	1.27		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		0.003	P-value		0.387x	Power	0.002		Power-50%		0.002	P-value		0.176	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.022		Power-50%		0.066	P-value		0.252	Power	---		Power-50%		---	P-value		0.099	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	12	0.11	0.11	10	1.26	1.12	-	-	0.340	12	0.11	0.11	10	0.38	0.38	-	-	0.630	12	0.00	0.00	10	0.13	0.13	-	-	0.343
14.2C/14.2	3	7	5.90	3.30	10	1.89	1.00	-	+	0.355	7	3.21	3.21	10	1.89	1.00	-	-	0.871	7	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	3	11	1.36	1.36	10	0.63	0.63	-	+	0.813	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			2.47	1.60		1.27	0.90		+			1.10	1.10		0.77	0.47		-			0.00	0.00		0.03	0.03		-	
Fisher's		Power	0.046		Power-50%		0.275	P-value		0.466	Power	0.049		Power-50%		---	P-value		0.565 y	Power	---		Power-50%		---	P-value		0.391
Stouffer's		Power	0.019		Power-50%		0.181	P-value		0.418	Power	0.003		Power-50%		---	P-value		0.464	Power	---		Power-50%		---	P-value		0.394

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.68. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Sheltered Rocky. May 1991. Undisturbed. (Continued.)

Site Pair	Mvd	Cladophora sp. (AE) N	C	SE	N	O	SE	CV	D	P	Ulothrix sp. (AE) N	C	SE	N	O	SE	CV	D	P	Urospora sp. (AE) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.88	0.88	-	-	0.343	12	0.00	0.00	10	18.51	7.03	-	-	0.015
62762C/50983	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.30	0.30		-			0.00	0.00		6.17	2.33		-	
Fisher's		Power ---			Power-50%		---	P-value		0.655	Power ---			Power-50%		---	P-value		0.391	Power ---			Power-50%		---	P-value		0.052
Stouffer's		Power ---			Power-50%		---	P-value		0.500	Power ---			Power-50%		---	P-value		0.394	Power 0.000			Power-50%		---	P-value		0.245
14.1C/14.1	2	12	0.00	0.00	12	0.11	0.11	-	-	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	2	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	2.50	1.49	-	-	0.099
62762C/50983	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.03	0.03		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.83	0.50		-	
Fisher's		Power ---			Power-50%		---	P-value		0.388	Power ---			Power-50%		---	P-value		0.655	Power 0.011			Power-50%		---	P-value		0.186
Stouffer's		Power ---			Power-50%		---	P-value		0.393	Power ---			Power-50%		---	P-value		0.500	Power 0.000			Power-50%		---	P-value		0.319
14.1C/14.1	3	12	0.00	0.00	10	0.75	0.75	-	-	0.343	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
14.2C/14.2	3	7	0.00	0.00	10	0.00	0.00	-	o	1.000	7	0.00	0.00	10	0.00	0.00	-	o	1.000	7	2.69	1.86	10	0.00	0.00	-	-	0.180
62762C/50983	3	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	1.36	1.36	10	0.63	0.63	-	-	0.813
Habitat Means			0.00	0.00		0.27	0.27		-			0.00	0.00		0.00	0.00		o			1.37	1.10		0.20	0.20		-	
Fisher's		Power ---			Power-50%		---	P-value		0.391	Power ---			Power-50%		---	P-value		0.655	Power 0.042			Power-50%		0.072	P-value		0.238
Stouffer's		Power ---			Power-50%		---	P-value		0.394	Power ---			Power-50%		---	P-value		0.500	Power 0.003			Power-50%		0.003	P-value		0.275

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Morphological Group: Tubular and Saccate Greens N	C	SE	N	O	SE	CV	D	P	Blidingia/Enteromorpha (AE) (a) N	C	SE	N	O	SE	CV	D	P	[illegible] N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000									
14.2C/14.2	1	12	0.00	0.00	10	2.25	1.31	-	-	0.096	12	0.00	0.00	10	2.25	1.31	-	-	0.096									
62762C/50983	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.77	0.43		-			0.00	0.00		0.77	0.43		-										
Fisher's		Power 0.011			Power-50%		---	P-value		0.183	Power 0.010			Power-50%		---	P-value		0.183	Power ---			Power-50%		---	P-value		
Stouffer's		Power 0.000			Power-50%		---	P-value		0.318	Power 0.000			Power-50%		---	P-value		0.318	Power ---			Power-50%		---	P-value		
14.1C/14.1	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000									
14.2C/14.2	2	11	0.23	0.23	10	0.00	0.00	-	+	0.341	11	0.23	0.23	10	0.00	0.00	-	+	0.341									
62762C/50983	2	11	2.16	2.16	12	0.00	0.00	-	+	0.341	11	2.16	2.16	12	0.00	0.00	-	+	0.341									
Habitat Means			0.80	0.80		0.00	0.00		-			0.80	0.80		0.00	0.00		-										
Fisher's		Power ---			Power-50%		---	P-value		0.206	Power ---			Power-50%		---	P-value		0.206	Power ---			Power-50%		---	P-value		
Stouffer's		Power ---			Power-50%		---	P-value		0.127	Power ---			Power-50%		---	P-value		0.127	Power ---			Power-50%		---	P-value		
14.1C/14.1	3	12	0.00	0.00	10	0.38	0.38	-	-	0.343	12	0.00	0.00	10	0.38	0.38	-	-	0.343									
14.2C/14.2	3	7	0.00	0.00	10	0.00	0.00	-	o	1.000	7	0.00	0.00	10	0.00	0.00	-	o	1.000									
62762C/50983	3	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.13	0.13		-			0.00	0.00		0.13	0.13		-										
Fisher's		Power ---			Power-50%		---	P-value		0.391	Power ---			Power-50%		---	P-value		0.391	Power ---			Power-50%		---	P-value		
Stouffer's		Power ---			Power-50%		---	P-value		0.394	Power ---			Power-50%		---	P-value		0.394	Power ---			Power-50%		---	P-value		

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.69. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Sheltered Rocky. May 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta							Morphological Group: Bladed Browns							Alaria sp. (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	38.55	9.07	12	15.94	6.86	-	+	0.055	12	38.55	9.07	12	15.73	6.85	-	+	0.053	12	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	1	12	12.29	7.60	10	1.76	1.17	-	+	0.299	12	12.08	7.58	10	1.76	1.17	-	+	0.307	12	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	1	12	33.13	10.06	12	42.72	10.52	-	-	0.533	12	33.13	10.06	12	42.72	10.52	-	-	0.533	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			28.00	8.93		20.13	6.20		+			27.93	8.93		20.07	6.20		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.071	Power	---		Power-50%		---	P-value		0.070	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.389		Power-50%		0.880	P-value		0.392	Power	0.383		Power-50%		0.878	P-value		0.392	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	12	34.90	9.21	12	28.96	9.51	-	+	0.384	12	28.66	8.94	12	28.96	9.51	-	-	0.675	12	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	2	11	52.40	9.88	10	24.39	7.03	-	+	0.042	11	52.29	9.85	10	22.64	7.24	-	+	0.030	11	0.23	0.23	10	2.50	2.50	-	-	0.500
62762C/50983	2	11	39.33	7.95	12	58.55	10.95	-	-	0.178	11	39.22	7.98	12	57.72	10.72	-	-	0.194	11	1.82	1.82	12	0.00	0.00	-	-	0.341
Habitat Means			42.20	9.03		37.33	9.17		+			40.07	8.93		36.43	9.13		-			0.67	0.67		0.83	0.83		+	
Fisher's		Power	---		Power-50%		---	P-value		0.082	Power	0.018		Power-50%		0.644	P-value		0.334xy	Power	---		Power-50%		---	P-value		0.481 y
Stouffer's		Power	0.056		Power-50%		0.779	P-value		0.657	Power	0.046		Power-50%		0.620	P-value		0.246	Power	---		Power-50%		---	P-value		0.249
14.1C/14.1	3	12	25.73	5.21	10	17.01	6.38	-	-	0.203	12	20.32	5.64	10	16.63	6.47	-	+	0.589	12	2.41	1.28	10	0.75	0.75	-	-	0.197
14.2C/14.2	3	7	23.59	8.72	10	25.52	6.81	-	-	0.783	7	23.59	8.72	10	23.77	7.03	-	-	0.998	7	15.00	4.76	10	2.38	1.18	-	-	0.020
62762C/50983	3	11	31.83	5.23	10	45.99	6.91	-	-	0.120	11	31.83	5.23	10	44.87	6.68	-	-	0.140	11	16.37	6.21	10	0.00	0.00	-	+	0.013
Habitat Means			27.03	6.37		29.50	6.70		-			25.23	6.50		28.43	6.73		-			12.27	4.10		1.07	0.67		+	
Fisher's		Power	0.063		Power-50%		0.807	P-value		0.260	Power	0.088		Power-50%		0.662	P-value		0.285	Power	---		Power-50%		---	P-value		0.001
Stouffer's		Power	0.014		Power-50%		0.813	P-value		0.128	Power	0.079		Power-50%		0.672	P-value		0.116	Power	---		Power-50%		---	P-value		0.001

X At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Fucus gardneri (P)							Adult Fucus gardneri (P) (> 2cm)							Juvenile Fucus gardneri (P) (<= 2cm)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	38.55	9.07	12	15.73	6.85	-	+	0.053	12	35.53	9.16	12	15.53	6.86	-	+	0.084	12	3.03	1.52	12	0.21	0.21	-	+	0.057
14.2C/14.2	1	12	12.08	7.58	10	1.76	1.17	-	+	0.307	12	11.04	7.17	10	1.51	1.12	-	+	0.303	12	1.04	0.65	10	0.25	0.25	-	+	0.323
62762C/50983	1	12	33.13	10.06	12	42.72	10.52	-	-	0.533	12	32.51	10.08	12	40.84	10.13	-	-	0.569	12	0.63	0.63	12	1.88	1.25	-	-	0.264
Habitat Means			27.93	8.93		20.07	6.20		-			26.33	8.83		19.27	6.03		-			1.53	0.93		0.80	0.60		+	
Fisher's		Power	---		Power-50%		---	P-value		0.070	Power	---		Power-50%		---	P-value		0.095	Power	---		Power-50%		---	P-value		0.087
Stouffer's		Power	0.387		Power-50%		0.877	P-value		0.392	Power	0.298		Power-50%		0.797	P-value		0.395	Power	0.160		Power-50%		0.534	P-value		0.578
14.1C/14.1	2	12	28.66	8.94	12	28.96	9.51	-	-	0.675	12	28.34	8.96	12	28.76	9.47	-	-	0.682	12	0.32	0.23	12	0.22	0.15	-	-	0.856
14.2C/14.2	2	11	51.95	9.78	10	20.14	5.24	-	+	0.015	11	51.61	9.75	10	19.64	5.14	-	+	0.014	11	0.35	0.25	10	0.50	0.33	-	-	0.799
62762C/50983	2	11	37.40	8.60	12	57.72	10.72	-	-	0.147	11	37.29	8.64	12	56.98	10.86	-	-	0.180	11	0.12	0.12	12	0.73	0.45	-	-	0.241
Habitat Means			39.37	9.10		35.60	8.47		-			39.07	9.13		35.13	8.50		-			0.27	0.20		0.47	0.33		-	
Fisher's		Power	0.022		Power-50%		0.615	P-value		0.285xy	Power	0.040		Power-50%		0.561	P-value		0.322xy	Power	0.147		Power-50%		0.263	P-value		0.304
Stouffer's		Power	0.053		Power-50%		0.588	P-value		0.226	Power	0.084		Power-50%		0.534	P-value		0.260	Power	0.158		Power-50%		0.285	P-value		0.137
14.1C/14.1	3	12	17.93	5.73	10	15.88	6.57	-	+	0.733	12	17.00	5.77	10	14.63	6.28	-	+	0.722	12	0.94	0.41	10	1.25	1.00	-	-	0.847
14.2C/14.2	3	7	8.59	6.44	10	21.39	7.49	-	-	0.177	7	8.59	6.44	10	20.27	7.48	-	-	0.273	7	0.00	0.00	10	1.14	0.44	-	-	0.018
62762C/50983	3	11	15.47	5.21	10	44.87	6.68	-	-	0.002	11	15.13	5.22	10	44.61	6.71	-	-	0.002	11	0.35	0.25	10	0.26	0.17	-	-	0.932
Habitat Means			14.00	5.77		27.40	6.93		-			13.57	5.80		26.50	6.83		-			0.43	0.23		0.90	0.53		-	
Fisher's		Power	---		Power-50%		---	P-value		0.003	Power	---		Power-50%		---	P-value		0.005	Power	---		Power-50%		---	P-value		0.054
Stouffer's		Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.001	Power	0.094		Power-50%		0.740	P-value		0.258

X At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.69. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Sheltered Rocky. May 1991. Undisturbed. (Continued.)

Site Pair	Mvd	Fucus Stipes (P) (a) N	C	SE	N	O	SE	CV	D	P	Petalonia/Punctaria (AE) (b) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Coarse Filamentous Browns N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	1.04	0.48	12	0.32	0.23	-	+	0.244	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	1	12	0.11	0.11	10	0.00	0.00	-	+	0.339	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.37	0.20		0.10	0.07		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.173		Power-50%		0.359	P-value		0.166	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.129		Power-50%		0.311	P-value		0.273	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	12	0.63	0.63	12	1.99	1.01	-	-	0.208	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	5.94	5.38	12	0.00	0.00	-	+	0.167
14.2C/14.2	2	11	0.57	0.31	10	4.01	3.33	-	-	0.329	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.13	0.13	-	-	0.343
62762C/50983	2	11	0.35	0.18	12	0.32	0.23	-	+	0.711	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.53	0.37		2.10	1.50		-			0.00	0.00		0.00	0.00		o			1.97	1.80		0.03	0.03		.	
Fisher's		Power	0.257		Power-50%		0.619	P-value		0.173	Power	---		Power-50%		---	P-value		0.655	Power	0.002		Power-50%		0.005	P-value		0.347
Stouffer's		Power	0.183		Power-50%		0.513	P-value		0.382	Power	---		Power-50%		---	P-value		0.500	Power	0.001		Power-50%		0.008	P-value		0.451
14.1C/14.1	3	12	0.83	0.47	10	1.13	1.13	-	-	0.791	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	5.22	2.22	10	0.13	0.13	-	.	0.009
14.2C/14.2	3	7	0.00	0.00	10	1.52	0.67	-	-	0.023	7	0.00	0.00	10	0.00	0.00	-	o	1.000	7	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	3	11	0.45	0.45	10	0.26	0.17	-	+	0.929	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.43	0.33		0.97	0.67		-			0.00	0.00		0.00	0.00		o			1.73	0.73		0.03	0.03		.	
Fisher's		Power	---		Power-50%		---	P-value		0.061	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.035
Stouffer's		Power	0.135		Power-50%		0.338	P-value		0.260	Power	---		Power-50%		---	P-value		0.500	Power	0.230		Power-50%		0.032	P-value		0.228

(a) Dead Fucus plants or stipes without blades.
(b) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Analipus japonicus (P) N	C	SE	N	O	SE	CV	D	P	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.21	0.21	10	0.00	0.00	-	+	0.339
62762C/50983	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.07	0.07		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.388
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.393
14.1C/14.1	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	5.94	5.38	12	0.00	0.00	-	+	0.167	12	0.11	0.11	12	0.00	0.00	-	+	0.339
14.2C/14.2	2	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.12	0.12	10	1.63	1.12	-	-	0.179
62762C/50983	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.12	0.12	12	0.83	0.83	-	-	0.577
Habitat Means			0.00	0.00		0.00	0.00		o			1.97	1.80		0.00	0.00		+			0.10	0.10		0.80	0.63		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.002		Power-50%		0.003	P-value		0.258	Power	0.048		Power-50%		---	P-value		0.262
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.003		Power-50%		0.003	P-value		0.347	Power	0.001		Power-50%		---	P-value		0.267
14.1C/14.1	3	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	5.22	2.22	10	0.13	0.13	-	.	0.009	12	0.21	0.21	10	0.00	0.00	-	-	0.339
14.2C/14.2	3	7	0.00	0.00	10	0.00	0.00	-	o	1.000	7	0.00	0.00	10	0.00	0.00	-	o	1.000	7	0.00	0.00	10	1.75	1.06	-	-	0.096
62762C/50983	3	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	1.13	0.89	-	-	0.190
Habitat Means			0.00	0.00		0.00	0.00		o			1.73	0.73		0.03	0.03		+			0.07	0.07		0.97	0.67		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.035	Power	---		Power-50%		---	P-value		0.084
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.229		Power-50%		0.029	P-value		0.228	Power	---		Power-50%		---	P-value		0.081

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.69. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Sheltered Rocky. May 1991. Undisturbed. (Continued.)

Site Pair	Mvd	Fine Filamentous Browns (AE) (b) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Saccate Browns N	C	SE	N	O	SE	CV	D	P	Leathesia/Colpomenia (A) (a) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	1	12	0.21	0.21	10	0.00	0.00	-	+	0.339	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.07	0.07		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.388	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.393	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	12	0.11	0.11	12	0.00	0.00	-	+	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	2	11	0.12	0.12	10	0.50	0.33	-	-	0.363	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	2	11	0.12	0.12	12	0.83	0.83	-	-	0.577	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.10	0.10		0.43	0.37		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.052		Power-50%		---	P-value		0.393	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.003		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	12	0.21	0.21	10	0.00	0.00	-	+	0.339	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
14.2C/14.2	3	7	0.00	0.00	10	1.25	1.00	-	-	0.194	7	0.00	0.00	10	0.00	0.00	-	o	1.000	7	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	3	11	0.00	0.00	10	1.13	0.89	-	-	0.190	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.07	0.07		0.80	0.63		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.059		Power-50%		---	P-value		0.136	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
[illegible]		[illegible]			[illegible]			P-value		0.097	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Soranthera ulvoidea (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Crustose Browns N	C	SE	N	O	SE	CV	D	P	Ralfsia/Petroderma (P) (a) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.21	0.21	-	-	0.339	12	0.00	0.00	12	0.21	0.21	-	-	0.339
14.2C/14.2	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.07	0.07		-			0.00	0.00		0.07	0.07		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.388	Power	---		Power-50%		---	P-value		0.388
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.393	Power	---		Power-50%		---	P-value		0.393
14.1C/14.1	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.21	0.21	12	0.00	0.00	-	+	0.339	12	0.21	0.21	12	0.00	0.00	-	+	0.339
14.2C/14.2	2	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.07	0.07		0.00	0.00		+			0.07	0.07		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.388	Power	---		Power-50%		---	P-value		0.388
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.393	Power	---		Power-50%		---	P-value		0.393
14.1C/14.1	3	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.25	0.25	-	-	0.343	12	0.00	0.00	10	0.25	0.25	-	-	0.343
14.2C/14.2	3	7	0.00	0.00	10	0.00	0.00	-	o	1.000	7	0.00	0.00	10	0.00	0.00	-	o	1.000	7	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	3	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.10	0.10		-			0.00	0.00		0.10	0.10		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.391	Power	---		Power-50%		---	P-value		0.391
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.394	Power	---		Power-50%		---	P-value		0.394

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.70. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. May 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta							Morphological Group: Bladed Reds								Bangia sp. (AE)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	5.11	2.24	12	14.90	6.65	-	-	0.417	12	0.63	0.45	12	0.00	0.00	-	+	0.173	12	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	1	12	34.48	10.16	10	18.02	5.15	-	+	0.326	12	25.83	10.33	10	5.01	2.07	-	+	0.139	12	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	1	12	4.80	1.81	12	0.11	0.11	-	+	0.005	12	0.63	0.45	12	0.11	0.11	-	+	0.362	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			14.80	4.73		11.00	4.00		+			9.00	3.77		1.70	0.73		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.014	Power	---		Power-50%		---	P-value		0.034	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.005	Power	---		Power-50%		---	P-value		0.050	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	12	31.98	8.03	12	32.19	9.18	-	-	0.863	12	4.38	1.87	12	4.07	1.56	-	-	0.891	12	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	2	11	17.40	5.80	10	15.26	4.72	-	+	0.763	11	9.79	4.65	10	4.24	1.86	-	+	0.360	11	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	2	11	12.96	5.95	12	1.05	0.67	-	+	0.083	11	3.53	2.30	12	0.21	0.21	-	+	0.161	11	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			20.80	6.60		16.20	4.87		+			5.90	2.97		2.80	1.23		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.252		Power-50%		0.610	P-value		0.152	Power	0.263		Power-50%		0.617	P-value		0.121	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.052	Power	---		Power-50%		---	P-value		0.057	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	12	35.33	5.94	10	51.26	5.48	-	-	0.069	12	7.31	2.95	10	15.27	4.63	-	-	0.271	12	0.00	0.00	10	0.00	0.00	-	o	1.000
14.2C/14.2	3	7	68.60	7.60	10	48.27	8.68	-	+	0.112	7	41.80	9.51	10	26.76	6.13	-	+	0.157	7	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	3	11	22.16	5.14	10	21.76	7.36	-	+	0.775	11	9.33	3.61	10	18.51	6.25	-	-	0.427	11	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			42.03	6.20		40.47	7.20		+			19.47	5.37		20.20	5.67		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.194		Power-50%		0.979	P-value		0.259x	Power	0.433		Power-50%		0.730	P-value		0.298	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.016		Power-50%		0.973	P-value		0.422	Power	0.579		Power-50%		0.721	P-value		0.262	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Gigartinaceae Group (P) (a)							Palmaria spp. (A)								Phycodrys riggii (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	0.63	0.45	12	0.00	0.00	-	+	0.173	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	1	12	0.11	0.11	10	0.76	0.63	-	-	0.355	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	1	12	0.21	0.21	12	0.11	0.11	-	+	0.822	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.30	0.27		0.30	0.23		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.022		Power-50%		0.134	P-value		0.315 y	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.094		Power-50%		0.224	P-value		0.371	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	12	2.92	1.65	12	4.07	1.56	-	-	0.585	12	1.36	0.89	12	0.00	0.00	-	+	0.108	12	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	2	11	1.48	1.13	10	3.26	1.70	-	-	0.317	11	2.95	2.95	10	0.50	0.33	-	+	0.698	11	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	3.53	2.30	12	0.21	0.21	-	+	0.161	11	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			1.47	0.93		2.47	1.10		-			2.63	2.07		0.23	0.17		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.124		Power-50%		0.367	P-value		0.275	Power	---		Power-50%		---	P-value		0.043	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.046		Power-50%		0.201	P-value		0.330	Power	---		Power-50%		---	P-value		0.032	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	12	4.69	2.19	10	8.26	2.52	-	-	0.254	12	2.19	1.00	10	0.75	0.53	-	+	0.262	12	0.00	0.00	10	0.00	0.00	-	o	1.000
14.2C/14.2	3	7	14.83	4.16	10	12.14	4.01	-	+	0.824	7	24.11	13.17	10	7.52	2.54	-	+	0.466	7	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	3	11	0.35	0.35	10	1.50	0.85	-	-	0.220	11	7.96	3.76	10	16.38	5.67	-	-	0.389	11	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			6.63	2.27		7.30	2.47		-			11.43	6.00		8.23	2.90		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.260		Power-50%		0.573	P-value		0.142	Power	0.139		Power-50%		0.565	P-value		0.285	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.083	Power	0.036		Power-50%		0.623	P-value		0.603	Power	---		Power-50%		---	P-value		0.500

(a) Chondrus, Iridaea, Mastocarpus and Rhodoglossum.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.70. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. May 1991. Undisturbed. (Continued.)

		Porphyra sp. (A)								Tokidadendron kuriliensis (A)								Morphological Group: Coarse Filamentous Reds							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	1.25	1.25	12	11.77	5.18	-	-	0.067
14.2C/14.2	1	12	25.73	10.34	10	4.25	2.14	-	+	0.097	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	8.44	3.06	10	8.02	2.88	-	+	0.931
62762C/50983	1	12	0.42	0.42	12	0.00	0.00	-	+	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	3.13	1.75	12	0.00	0.00	-	+	0.039
Habitat Means			8.70	3.57		1.43	0.70		+			0.00	0.00		0.00	0.00		o			4.27	2.07		6.60	2.70		+	
Fisher's		Power	---		Power-50%		---	P-value	0.089		Power	---		Power-50%		---	P-value	0.655		Power	0.081		Power-50%		0.475	P-value	0.150xy	
Stouffer's		Power	---		Power-50%		---	P-value	0.089		Power	---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---	P-value	0.083	
14.1C/14.1	2	12	0.11	0.11	12	0.00	0.00	-	+	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	16.78	5.02	12	11.16	2.45	-	-	0.588
14.2C/14.2	2	11	5.35	2.37	10	0.38	0.27	-	+	0.023	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	6.26	2.06	10	5.14	2.37	-	-	0.583
62762C/50983	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	6.25	4.54	12	0.43	0.33	-	-	0.237
Habitat Means			1.83	0.83		0.13	0.10		+			0.00	0.00		0.00	0.00		o			9.80	3.87		5.57	1.73		.	
Fisher's		Power	---		Power-50%		---	P-value	0.031		Power	---		Power-50%		---	P-value	0.655		Power	0.234		Power-50%		0.551	P-value	0.164	
Stouffer's		Power	0.026		Power-50%		0.002	P-value	0.179		Power	---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---	P-value	0.082	
14.1C/14.1	3	12	0.43	0.24	10	2.63	2.49	-	-	0.579	12	0.00	0.00	10	3.63	1.98	-	-	0.086	12	16.89	5.87	10	22.89	4.46	-	-	0.368
14.2C/14.2	3	7	0.90	0.90	10	0.38	0.27	-	+	0.814	7	1.97	1.15	10	6.76	3.30	-	-	0.377	7	25.73	9.54	10	13.76	4.92	-	+	0.453
62762C/50983	3	11	0.57	0.46	10	0.00	0.00	-	+	0.191	11	0.35	0.35	10	0.63	0.50	-	-	0.592	11	8.76	2.77	10	0.63	0.50	-	.	0.006
Habitat Means			0.63	0.53		1.00	0.93		+			0.80	0.53		3.67	1.93		-			17.13	6.07		12.43	3.30		.	
Fisher's		Power	0.060		Power-50%		0.340	P-value	0.305 y		Power	---		Power-50%		---	P-value	0.061		Power	---		Power-50%		---	P-value	0.020	
Stouffer's		Power	0.098		Power-50%		0.507	P-value	0.135		Power	0.439		Power-50%		0.002	P-value	0.109		Power	---		Power-50%		---	P-value	0.007	

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Articulate Coralline Algae (A)								Cryptosiphonia woodii (A)								Endocladia muricata (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.32	0.32	-	-	0.339	12	1.25	1.25	12	1.04	0.65	-	.	0.705
14.2C/14.2	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	7.50	2.95	10	1.38	1.24	-	+	0.060
62762C/50983	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	2.92	1.76	12	0.00	0.00	-	+	0.066
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.10	0.10		-			3.90	2.03		0.80	0.63		+	
Fisher's		Power	---		Power-50%		---	P-value	0.655		Power	---		Power-50%		---	P-value	0.388		Power	---		Power-50%		---	P-value	0.014	
Stouffer's		Power	---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---	P-value	0.393		Power	---		Power-50%		---	P-value	0.010	
14.1C/14.1	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	2.29	2.07	12	0.32	0.23	-	+	0.481	12	0.32	0.23	12	2.19	0.90	-	-	0.078
14.2C/14.2	2	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	5.46	1.86	10	1.88	1.74	-	-	0.049
62762C/50983	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	2.85	2.61	12	0.00	0.00	-	+	0.234	11	0.00	0.00	12	0.32	0.32	-	-	0.339
Habitat Means			0.00	0.00		0.00	0.00		o			1.73	1.57		0.10	0.07		+			1.93	0.70		1.47	0.97		-	
Fisher's		Power	---		Power-50%		---	P-value	0.655		Power	0.022		Power-50%		0.019	P-value	0.202		Power	0.083		Power-50%		0.350	P-value	0.121xy	
Stouffer's		Power	---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---	P-value	0.099		Power	0.207		Power-50%		0.052	P-value	0.207	
14.1C/14.1	3	12	0.00	0.00	10	4.25	2.33	-	-	0.088	12	2.72	1.53	10	2.50	2.01	-	.	0.760	12	0.21	0.21	10	1.26	0.99	-	-	0.227
14.2C/14.2	3	7	0.71	0.46	10	3.63	3.49	-	-	0.718	7	0.00	0.00	10	0.38	0.38	-	-	0.343	7	0.00	0.00	10	0.25	0.25	-	-	0.343
62762C/50983	3	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.69	0.46	10	0.13	0.13	-	+	0.387	11	0.12	0.12	10	0.25	0.25	-	-	0.771
Habitat Means			0.23	0.17		2.63	1.93		-			1.13	0.67		1.00	0.83		+			0.10	0.10		0.63	0.53		-	
Fisher's		Power	0.023		Power-50%		0.044	P-value	0.139		Power	0.028		Power-50%		0.333	P-value	0.470		Power	0.120		Power-50%		---	P-value	0.134	
Stouffer's		Power	0.010		Power-50%		0.000	P-value	0.278		Power	0.097		Power-50%		0.686	P-value	0.272		Power	0.221		Power-50%		---	P-value	0.189	

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.70. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. May 1991. Undisturbed. (Continued.)

Site Pair	Mvd	Gloiopeltis furcata (A) N	C	SE	N	O	SE	CV	D	P	Microcladia borealis (A) N	C	SE	N	O	SE	CV	D	P	Neorhodomela/Rhodomela (P) (a) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	0.00	0.00	12	10.42	4.62	-	-	0.041	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	1	12	0.94	0.35	10	6.64	2.77	-	-	0.082	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	1	12	0.11	0.11	12	0.00	0.00	-	+	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.11	0.11	12	0.00	0.00	-	-	0.339
Habitat Means			0.33	0.17		5.67	2.47		-			0.00	0.00		0.00	0.00		o			0.03	0.03		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.024	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.388
Stouffer's		Power	0.217		Power-50%		0.017	P-value		0.419	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.191
14.1C/14.1	2	12	0.21	0.21	12	5.73	2.00	-	-	0.009	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	5.73	3.49	12	1.36	0.99	-	-	0.276
14.2C/14.2	2	11	0.57	0.39	10	2.89	1.74	-	-	0.143	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.23	0.23	10	0.13	0.13	-	+	0.874
62762C/50983	2	11	0.00	0.00	12	0.11	0.11	-	-	0.339	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	1.71	1.71	12	0.00	0.00	-	+	0.341
Habitat Means			0.27	0.20		2.90	1.27		-			0.00	0.00		0.00	0.00		o			2.53	1.80		0.50	0.37		+	
Fisher's		Power	---		Power-50%		---	P-value		0.003	Power	---		Power-50%		---	P-value		0.655	Power	0.120		Power-50%		0.227	P-value		0.165
Stouffer's		Power	---		Power-50%		---	P-value		0.021	Power	---		Power-50%		---	P-value		0.500	Power	0.244		Power-50%		0.400	P-value		0.110
14.1C/14.1	3	12	0.00	0.00	10	1.38	1.13	-	-	0.199	12	0.00	0.00	10	0.13	0.13	-	-	0.343	12	0.63	0.63	10	5.13	3.52	-	-	0.208
14.2C/14.2	3	7	0.00	0.00	10	0.00	0.00	-	o	1.000	7	0.00	0.00	10	0.00	0.00	-	o	1.000	7	0.00	0.00	10	0.89	0.33	-	-	0.017
62762C/50983	3	11	0.00	0.00	10	0.25	0.25	-	-	0.343	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.45	0.30	10	0.00	0.00	-	-	0.167
Habitat Means			0.00	0.00		0.57	0.47		-			0.00	0.00		0.03	0.03		-			0.37	0.30		2.00	1.27		-	
Fisher's		Power	0.023		Power-50%		---	P-value		0.146	Power	---		Power-50%		---	P-value		0.391	Power	---		Power-50%		---	P-value		0.027
Stouffer's		Power	0.224		Power-50%		---	P-value		0.109	Power	---		Power-50%		---	P-value		0.394	Power	0.037		Power-50%		0.180	P-value		0.589

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Odonthalia floccosa (P) N	C	SE	N	O	SE	CV	D	P	Ptilota/Neoptilota (P) (b) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Saccate Reds N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	12	8.23	4.12	12	1.57	1.08	-	+	0.084	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	7.61	3.88	12	0.00	0.00	-	+	0.041
14.2C/14.2	2	11	0.00	0.00	10	0.26	0.17	-	-	0.168	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.13	0.13	-	-	0.343
62762C/50983	2	11	1.71	1.58	12	0.00	0.00	-	+	0.238	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	1.14	0.62	12	0.42	0.42	-	+	0.294
Habitat Means			3.30	1.90		0.63	0.43		+			0.00	0.00		0.00	0.00		o			2.90	1.50		0.17	0.17		+	
Fisher's		Power	---		Power-50%		---	P-value		0.096	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.063
Stouffer's		Power	0.409		Power-50%		0.337	P-value		0.119	Power	---		Power-50%		---	P-value		0.500	Power	0.555		Power-50%		0.688	P-value		0.102
14.1C/14.1	3	12	13.34	5.74	10	2.76	0.89	-	+	0.072	12	0.00	0.00	10	5.50	2.52	-	-	0.044	12	0.53	0.24	10	1.26	0.53	-	-	0.281
14.2C/14.2	3	7	3.21	3.21	10	7.26	2.67	-	-	0.128	7	21.80	9.58	10	1.38	0.99	-	+	0.062	7	0.00	0.00	10	2.63	1.32	-	-	0.030
62762C/50983	3	11	6.37	2.20	10	0.00	0.00	-	+	0.003	11	1.14	1.14	10	0.00	0.00	-	+	0.341	11	1.73	0.72	10	2.63	1.99	-	-	0.837
Habitat Means			7.63	3.70		3.37	1.20		+			7.63	3.57		2.30	1.17		+			0.73	0.30		2.17	1.27		-	
Fisher's		Power	---		Power-50%		---	P-value		0.003	Power	0.269		Power-50%		0.051	P-value		0.105x	Power	---		Power-50%		---	P-value		0.029
Stouffer's		Power	---		Power-50%		---	P-value		0.002	Power	0.000		Power-50%		0.001	P-value		0.204	Power	0.268		Power-50%		0.882	P-value		0.133

(b) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.70. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. May 1991. Undisturbed. (Continued.)

		Halosaccion glandiformе (A)								Halosaccion spp. (A)								Morphological Group: Fine Filamentous Reds							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	1.04	1.04	12	0.00	0.00	-	+	0.339
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.33	0.33		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.388
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.191
14.1C/14.1	2	12	7.61	3.88	12	0.00	0.00	-	+	0.041	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	2	11	0.00	0.00	10	0.13	0.13	-	-	0.343	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.50	0.50	-	-	0.343
62762C/50983	2	11	1.14	0.62	12	0.42	0.42	-	+	0.294	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	2.05	1.16	12	0.00	0.00	-	-	0.055
Habitat Means			2.90	1.50		0.17	0.17		+			0.00	0.00		0.00	0.00		o			0.70	0.40		0.17	0.17		+	
Fisher's		Power	---		Power-50%		---	P-value		0.063	Power	---		Power-50%		---	P-value		0.655	Power	0.030		Power-50%		0.052	P-value		0.176
Stouffer's		Power	0.570		Power-50%		0.708	P-value		0.102	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.069
14.1C/14.1	3	12	0.53	0.24	10	1.26	0.53	-	-	0.281	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	6.15	2.75	10	0.63	0.43	-	+	0.054
14.2C/14.2	3	7	0.00	0.00	10	2.38	1.12	-	-	0.027	7	0.00	0.00	10	0.25	0.25	-	-	0.343	7	1.07	0.74	10	3.01	1.77	-	-	0.494
62762C/50983	3	11	1.73	0.72	10	2.63	1.99	-	-	0.837	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	2.39	0.93	10	0.00	0.00	-	+	0.019
Habitat Means			0.73	0.30		2.10	1.20		-			0.00	0.00		0.10	0.10		-			3.23	1.47		1.20	0.73		+	
Fisher's		Power	---		Power-50%		---	P-value		0.027	Power	---		Power-50%		---	P-value		0.391	Power	---		Power-50%		---	P-value		0.009
Stouffer's		Power	0.268		Power-50%		0.884	P-value		0.130	Power	---		Power-50%		---	P-value		0.394	Power	---		Power-50%		---	P-value		0.006

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Callithamnion pikeanum (A)								Polysiphonia/Pterosiphonia (A) (a)								Morphological Group: Crustose Reds							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	3.23	1.40	12	3.13	1.85	-	+	0.623
14.2C/14.2	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.21	0.21	10	5.02	2.83	-	-	0.053
62762C/50983	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			1.13	0.53		2.70	1.57		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	0.227		Power-50%		0.136	P-value		0.153
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	0.012		Power-50%		0.111	P-value		0.340
14.1C/14.1	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	3.23	3.12	12	16.99	8.11	-	-	0.079
14.2C/14.2	2	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.50	0.50	-	-	0.343	11	1.36	1.36	10	5.38	3.43	-	-	0.180
62762C/50983	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	2.05	1.16	12	0.00	0.00	-	+	0.055	11	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.70	0.40		0.17	0.17		+			1.53	1.50		7.47	3.83		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.031		Power-50%		0.050	P-value		0.176	Power	---		Power-50%		---	P-value		0.049
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.069	Power	0.104		Power-50%		0.001	P-value		0.189
14.1C/14.1	3	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	6.15	2.75	10	0.63	0.43	-	+	0.054	12	4.48	2.25	10	11.26	6.79	-	-	0.432
14.2C/14.2	3	7	0.00	0.00	10	0.00	0.00	-	o	1.000	7	1.07	0.74	10	3.01	1.77	-	-	0.494	7	0.00	0.00	10	2.14	1.48	-	-	0.079
62762C/50983	3	11	0.23	0.23	10	0.00	0.00	-	+	0.341	11	2.16	0.83	10	0.00	0.00	-	+	0.019	11	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.07	0.07		0.00	0.00		+			3.17	1.43		1.20	0.73		+			1.50	0.77		4.47	2.77		-	
Fisher's		Power	---		Power-50%		---	P-value		0.389	Power	---		Power-50%		---	P-value		0.009	Power	---		Power-50%		---	P-value		0.091
Stouffer's		Power	---		Power-50%		---	P-value		0.192	Power	---		Power-50%		---	P-value		0.006	Power	0.080		Power-50%		0.049	P-value		0.234

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.70. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. May 1991. Undisturbed. (Continued.)

Site Pair	Mvd	Crustose Coralline Algae (P) N	C	SE	N	O	SE	CV	D	P	Hildenbrandia sp. (P) N	C	SE	N	O	SE	CV	D	P	*Petrocelis (P)* N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	3.23	1.40	12	3.13	1.88	-	+	0.623	12	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	1	12	0.00	0.00	10	0.25	0.25	-	-	0.343	12	0.00	0.00	10	4.77	2.86	-	-	0.061	12	0.21	0.21	10	0.00	0.00	-	+	0.339
62762C/50983	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.10	0.10		-			1.07	0.47		2.63	1.60		-			0.07	0.07		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		0.391	Power	0.123		Power-50%		0.061	P-value		0.167	Power	---		Power-50%		---	P-value		0.388
Stouffer's		Power	---		Power-50%		---	P-value		0.394	Power	0.008		Power-50%		0.074	P-value		0.347	Power	---		Power-50%		---	P-value		0.393
14.1C/14.1	2	12	0.11	0.11	12	0.21	0.21	-	-	0.822	12	3.13	3.13	12	16.68	8.16	-	-	0.093	12	0.00	0.00	12	0.11	0.11	-	-	0.339
14.2C/14.2	2	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.23	0.23	10	5.38	3.43	-	-	0.098	11	1.14	1.14	10	0.00	0.00	-	+	0.341
62762C/50983	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.03	0.03		0.07	0.07		-			1.10	1.10		7.37	3.87		-			0.37	0.37		0.03	0.03		-	
Fisher's		Power	---		Power-50%		---	P-value		0.603	Power	---		Power-50%		---	P-value		0.035	Power	---		Power-50%		---	P-value		0.505 y
Stouffer's		Power	---		Power-50%		---	P-value		0.475	Power	0.154		Power-50%		---	P-value		0.171	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	4.28	2.27	10	11.01	6.83	-	-	0.459	12	0.21	0.21	10	0.25	0.25	-	-	0.899
14.2C/14.2	3	7	0.00	0.00	10	1.76	1.48	-	-	0.153	7	0.00	0.00	10	0.38	0.38	-	-	0.343	7	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	3	11	*0.00*	*0.00*	*10*	*0.00*	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.60	0.50		-			1.43	0.77		3.80	2.40		-			0.07	0.07		0.10	0.10		-	
Fisher's		Power	0.002		Power-50%		---	P-value		0.245	Power	0.048		Power-50%		0.028	P-value		0.249	Power	---		Power-50%		---	P-value		0.626
Stouffer's		Power	0.000		Power-50%		---	P-value		0.342	Power	0.036		Power-50%		0.036	P-value		0.315	Power	---		Power-50%		---	P-value		0.486

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.71. Algal Percent Cover. Invertebrates. Cook Inlet/Kenai. Sheltered Rocky. May 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Actiniidae								Balanomorpha								Polyplacophora							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	2.72	1.74	12	7.30	3.26	-	-	0.235	12	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	16.16	4.62	10	9.00	3.32	-	-	0.471	12	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	23.12	7.05	12	17.19	3.00	-	-	0.486	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			14.00	4.47		11.17	3.20		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.051		Power-50%		0.857	P-value		0.426	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.005		Power-50%		0.846	P-value		0.307	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	9.28	6.39	12	4.80	2.26	-	+	0.570	12	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	2	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	23.31	9.62	10	25.39	7.66	-	-	0.683	11	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	16.38	3.92	12	12.30	4.47	-	+	0.348	11	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			16.33	6.63		14.17	4.83		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.097		Power-50%		0.510	P-value		0.336	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.154		Power-50%		0.521	P-value		0.183	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	16.57	5.55	10	3.63	1.69	-	-	0.042	12	0.22	0.15	10	0.00	0.00	-	-	0.166
14.2C/14.2	3	7	0.00	0.00	10	0.00	0.00	-	o	1.000	7	0.00	0.00	10	5.25	4.21	-	-	0.149	7	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	3	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	16.04	3.99	10	7.38	3.73	-	+	0.099	11	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			10.87	3.20		5.43	3.20		+			0.07	0.07		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.031	Power	0.008		Power-50%		0.004	P-value		0.257
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.046	Power	0.038		Power-50%		0.024	P-value		0.346

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Lottiidae								Mytilus								Nucella lamellosa							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	1	12	0.22	0.15	10	0.00	0.00	-	+	0.166	12	2.19	2.08	10	0.00	0.00	-	+	0.250	12	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	2.40	1.33	12	0.21	0.21	-	+	0.107	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.07	0.07		0.00	0.00		+			1.53	1.13		0.07	0.07		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.009		Power-50%		0.009	P-value		0.257	Power	---		Power-50%		---	P-value		0.077	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.346	Power	---		Power-50%		---	P-value		0.036	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	12	0.00	0.00	12	0.11	0.11	-	-	0.339	12	0.00	0.00	12	0.42	0.42	-	-	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	2	11	0.00	0.00	10	0.13	0.13	-	-	0.343	11	0.00	0.00	10	0.50	0.50	-	-	0.343	11	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	2.05	1.69	12	1.98	1.10	-	-	0.835	11	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.07	0.07		-			0.70	0.57		0.97	0.67		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.206	Power	0.083		Power-50%		0.003	P-value		0.227	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.294	Power	0.160		Power-50%		0.003	P-value		0.362	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
14.2C/14.2	3	7	0.00	0.00	10	0.00	0.00	-	o	1.000	7	0.00	0.00	10	0.00	0.00	-	o	1.000	7	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	3	11	0.12	0.12	10	0.00	0.00	-	+	0.341	11	1.94	0.97	10	5.25	5.25	-	-	0.991	11	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.03	0.03		0.00	0.00		+			0.63	0.33		1.77	1.77		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.389	Power	0.000		Power-50%		0.071	P-value		0.653	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.192	Power	0.000		Power-50%		0.079	P-value		0.496	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.71. Algal Percent Cover. Invertebrates. Cook Inlet/Kenai. Sheltered Rocky. May 1991. Undisturbed. (Continued.)

		Littorinidae								Porifera								Cnideria							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	12	0.00	0.00	12	0.11	0.11	-	-	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	2	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.13	0.13	-	-	0.343
62762C/50983	2	11	0.00	0.00	12	0.11	0.11	-	-	0.339	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.07	0.07		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.03	0.03		-	
Fisher's		Power	---		Power-50%		---	P-value		0.205	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.391
Stouffer's		Power	---		Power-50%		---	P-value		0.126	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.394
14.1C/14.1	3	12	0.32	0.23	10	0.25	0.25	-	+	0.762	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
14.2C/14.2	3	7	0.00	0.00	10	0.00	0.00	-	o	1.000	7	0.00	0.00	10	0.00	0.00	-	o	1.000	7	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	3	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.10	0.07		0.10	0.10		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.001		Power-50%		0.005	P-value		0.583 y	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.002		Power-50%		0.006	P-value		0.466	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.72. Algal Percent Cover. Substrates. Cook Inlet/Kenai. Sheltered Rocky. May 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. *MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation;* SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Rock							Oiled Rock								Mud							
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	52.62	8.95	12	60.32	10.53	-	-	0.512	12	0.00	0.00	12	1.25	0.84	-	-	0.105	12	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	1	12	34.59	10.64	10	49.63	6.95	-	-	0.310	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	1	12	36.16	10.54	12	35.85	9.28	-	+	0.979	12	0.00	0.00	12	3.97	3.63	-	-	0.235	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			41.13	10.03		48.60	8.93		-			0.00	0.00		1.77	1.47		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.369		Power-50%		0.570	P-value		0.253	Power	---		Power-50%		---	P-value		0.072	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.216		Power-50%		0.556	P-value		0.325	Power	---		Power-50%		---	P-value		0.061	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	12	22.31	9.54	12	31.06	7.47	-	-	0.407	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	2	11	5.57	2.13	10	26.02	6.04	-	-	0.005	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	2	11	20.69	7.78	12	22.08	6.66	-	-	0.892	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			16.20	6.47		26.40	6.73		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.010	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.523		Power-50%		0.616	P-value		0.122	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	12	12.72	3.26	10	11.64	4.40	-	+	0.521	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
14.2C/14.2	3	7	1.09	0.43	10	12.39	4.37	-	-	0.020	7	0.00	0.00	10	0.00	0.00	-	o	1.000	7	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	3	11	24.45	7.87	10	15.53	5.67	-	+	0.397	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			12.77	3.87		13.17	4.83		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.098		Power-50%		0.755	P-value		0.429xy	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.153		Power-50%		0.752	P-value		0.384	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Sand									Shell Fragments									Filamentous Diatoms								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	2	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	2	11	0.00	0.00	12	3.23	2.90	-	-	0.182	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		1.07	0.97		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.001		Power-50%		---	P-value		0.272	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.001		Power-50%		---	P-value		0.111	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.32	0.23	10	0.00	0.00	-	-	0.172	12	0.00	0.00	10	0.00	0.00	-	o	1.000
14.2C/14.2	3	7	0.00	0.00	10	0.00	0.00	-	o	1.000	7	0.00	0.00	10	0.00	0.00	-	o	1.000	7	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	3	11	0.00	0.00	10	0.75	0.75	-	-	0.343	11	0.00	0.00	10	0.25	0.25	-	-	0.343	11	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.27	0.27		-			0.10	0.07		0.10	0.10		,			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.391	Power	0.003		Power-50%		0.001	P-value		0.353 y	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.193	Power	0.003		Power-50%		0.001	P-value		0.684	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.72. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Sheltered Rocky. May 1991. Undisturbed. (Continued.)

		Sand and Mud								Total Substrate															
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV D P
14.1C/14.1	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	52.62	8.95	12	61.57	10.75	-	-	0.424							
14.2C/14.2	1	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	34.59	10.64	10	49.63	6.95	-	-	0.310							
62762C/50983	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	36.16	10.54	12	39.80	9.42	-	-	0.786							
Habitat Means			0.00	0.00		0.00	0.00		o			41.13	10.03		50.33	9.07		-								
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power	0.417		Power-50%		0.583	P-value		0.191	Power	---		Power-50%		---	P-value
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	0.262		Power-50%		0.585	P-value		0.222	Power	---		Power-50%		---	P-value
14.1C/14.1	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	22.31	9.54	12	31.06	7.47	-	-	0.407							
14.2C/14.2	2	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	5.57	2.13	10	26.02	6.04	-	-	0.005							
62762C/50983	2	11	0.00	0.00	12	3.23	2.90	-	-	0.182	11	20.69	7.78	12	25.32	7.75	-	-	0.713							
Habitat Means			0.00	0.00		1.07	0.97		-			16.20	6.47		27.47	7.10		-								
Fisher's	Power		0.001		Power-50%		---	P-value		0.272	Power	---		Power-50%		---	P-value		0.008	Power	---		Power-50%		---	P-value
Stouffer's	Power		0.001		Power-50%		---	P-value		0.111	Power	---		Power-50%		---	P-value		0.085	Power	---		Power-50%		---	P-value
14.1C/14.1	3	12	0.32	0.23	10	0.00	0.00	-	+	0.172	12	13.03	3.24	10	11.64	4.40	-	+	0.482							
14.2C/14.2	3	7	0.00	0.00	10	0.00	0.00	-	o	1.000	7	1.09	0.43	10	12.39	4.37	-	-	0.020							
62762C/50983	3	11	0.00	0.00	10	1.00	0.76	-	-	0.185	11	24.45	7.87	10	16.53	6.31	-	+	0.452							
Habitat Means			0.10	0.07		0.33	0.27		+			12.87	3.83		13.50	5.03		+								
Fisher's	Power		0.001		Power-50%		0.005	P-value		0.371 y	Power	0.109		Power-50%		0.733	P-value		0.441xy	Power	---		Power-50%		---	P-value

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.73. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; - = control > oiled; + = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Algal Diversity Index (a)								Algal Taxa Richness (b)								Total Algae							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	11	0.14	0.07	11	0.26	0.06	-	-	0.222	11	2.18	0.63	11	2.82	0.44	-	-	0.419	11	69.22	10.65	11	52.29	8.48	-	+	0.264
14.2C/14.2	1	12	0.25	0.06	11	0.17	0.06	-	+	0.350	12	2.83	0.58	11	1.82	0.55	-	+	0.219	12	48.86	9.48	11	18.65	6.92	-	+	0.030
62762C/50983	1	14	0.14	0.04	15	0.02	0.02	-	+	0.022	14	1.71	0.41	15	0.60	0.16	-	+	0.022	14	25.81	7.06	15	11.76	5.17	-	+	0.108
Habitat Means			0.18	0.06		0.15	0.05		+			2.24	0.54		1.75	0.39		+			47.97	9.10		27.60	6.87		-	
Fisher's		Power	---		Power-50%		---	P-value		0.047	Power	---		Power-50%		---	P-value		0.031	Power	---		Power-50%		---	P-value		0.006
Stouffer's		Power	---		Power-50%		---	P-value		0.022	Power	---		Power-50%		---	P-value		0.013	Power	---		Power-50%		---	P-value		0.008
14.1C/14.1	2	12	0.39	0.08	12	0.41	0.07	-	-	0.891	12	4.83	0.81	12	4.42	0.62	-	+	0.686	12	84.37	5.10	12	71.88	6.70	-	-	0.116
14.2C/14.2	2	11	0.36	0.05	12	0.26	0.06	-	+	0.188	11	3.82	0.42	12	2.67	0.50	-	-	0.095	11	67.85	8.66	12	33.45	7.32	-	-	0.007
62762C/50983	2	14	0.33	0.07	13	0.04	0.03	-	+	0.001	14	4.00	0.66	13	1.23	0.20	-	+	0.001	14	57.69	7.44	13	58.76	10.45	-	-	0.992
Habitat Means			0.36	0.07		0.24	0.06		+			4.22	0.63		2.77	0.44		+			70.00	7.07		54.73	8.17		+	
Fisher's		Power	---		Power-50%		---	P-value		0.002	Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.005
Stouffer's		Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.000	Power	0.669		Power-50%		1.000	P-value		0.113
14.1C/14.1	3	11	0.59	0.07	12	0.71	0.06	-	-	0.192	11	6.91	0.59	12	8.42	0.90	-	-	0.185	11	93.98	3.58	12	91.05	3.04	-	+	0.399
14.2C/14.2	3	7	0.49	0.10	11	0.47	0.09	-	+	0.888	7	5.00	1.02	11	5.64	1.09	-	-	0.696	7	94.84	1.88	11	70.81	10.43	-	+	0.027
62762C/50983	3	12	0.53	0.05	13	0.20	0.06	-	+	0.000	12	6.25	0.59	13	2.85	0.52	-	+	0.000	12	73.02	5.51	13	76.74	8.09	-	-	0.627
Habitat Means			0.53	0.07		0.46	0.07		+			6.05	0.74		5.63	0.84		-			87.27	3.67		79.53	7.17		-	
Fisher's		Power	---		Power-50%		---	P-value		0.003	Power	0.050		Power-50%		0.996	P-value		0.333xy	Power	---		Power-50%		---	P-value		0.050
Stouffer's		Power	---		Power-50%		---	P-value		0.001	Power	0.001		Power-50%		0.996	P-value		0.998	Power	0.347		Power-50%		1.000	P-value		0.334

(a) Modified Shannon Index.
(b) Taxa richness calculations are explained in the methods.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Invertebrates								Rock								Perennials (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	11	3.18	1.69	11	12.40	5.80	-	-	0.120	11	27.63	10.97	11	34.79	7.96	-	-	0.528	11	67.05	10.86	11	40.92	8.95	-	-	0.108
14.2C/14.2	1	12	15.02	5.62	11	19.22	8.27	-	-	0.701	12	31.58	10.96	11	62.16	10.96	-	-	0.066	12	16.98	6.58	11	2.96	1.29	-	+	0.092
62762C/50983	1	14	42.78	8.58	15	21.75	4.64	-	+	0.048	14	31.44	8.40	15	66.34	7.02	-	-	0.006	14	19.74	6.05	15	10.67	4.70	-	+	0.196
Habitat Means			20.33	5.30		17.80	6.23		-			30.20	10.13		54.43	8.67		-			34.60	7.87		18.20	5.00		+	
Fisher's		Power	0.097		Power-50%		0.813	P-value		0.255xy	Power	---		Power-50%		---	P-value		0.002	Power	---		Power-50%		---	P-value		0.011
Stouffer's		Power	0.042		Power-50%		0.851	P-value		0.896	Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.017
14.1C/14.1	2	12	10.43	4.00	12	5.01	2.23	-	+	0.345	12	5.01	1.94	12	22.61	6.28	-	-	0.009	12	63.98	8.46	12	55.53	8.97	-	+	0.462
14.2C/14.2	2	11	24.22	7.85	12	20.22	3.70	-	+	0.965	11	7.52	2.30	12	45.84	7.21	-	-	0.000	11	40.35	9.30	12	27.20	7.64	-	+	0.242
62762C/50983	2	14	11.89	4.61	13	15.58	3.60	-	-	0.272	14	30.36	5.71	13	25.68	8.26	-	+	0.529	14	45.19	6.53	13	57.99	10.65	-	-	0.485
Habitat Means			15.50	5.50		13.60	3.17		+			14.30	3.30		31.37	7.27		-			49.87	8.10		46.90	9.10		-	
Fisher's		Power	0.077		Power-50%		0.665	P-value		0.511	Power	---		Power-50%		---	P-value		0.000	Power	0.118		Power-50%		0.916	P-value		0.260
Stouffer's		Power	0.054		Power-50%		0.725	P-value		0.766	Power	0.672		Power-50%		0.830	P-value		0.100	Power	0.111		Power-50%		0.933	P-value		0.538
14.1C/14.1	3	11	5.23	3.41	12	3.44	1.50	-	+	0.804	11	0.80	0.43	12	5.32	1.76	-	-	0.023	11	43.19	8.51	12	48.03	5.94	-	-	0.506
14.2C/14.2	3	7	3.59	2.01	11	10.46	6.34	-	-	0.409	7	1.61	1.05	11	17.18	7.23	-	-	0.013	7	23.94	9.54	11	46.83	7.23	-	-	0.092
62762C/50983	3	12	7.09	3.08	13	6.35	1.91	-	+	0.861	12	19.91	5.46	13	16.94	6.88	-	+	0.611	12	19.59	5.73	13	64.92	8.02	-	-	0.000
Habitat Means			5.30	2.83		6.77	3.23		+			7.43	2.33		13.13	5.30		-			28.90	7.90		53.23	7.03		-	
Fisher's		Power	0.009		Power-50%		0.650	P-value		0.681 y	Power	---		Power-50%		---	P-value		0.003	Power	---		Power-50%		---	P-value		0.000
Stouffer's		Power	0.006		Power-50%		0.691	P-value		0.502	Power	0.479		Power-50%		0.916	P-value		0.188	Power	---		Power-50%		---	P-value		0.000

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y *Direction of difference between habitat means* is different than direction of overall tests.
z Only one site pair.

Table C-5.73. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Undisturbed. (Continued.)

		Annuals (A)								Ephemerals (AE)															
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV D P
14.1C/14.1	1	11	2.17	1.32	11	11.37	5.55	-	-	0.175	11	1.37	1.25	11	0.00	0.00	-	-	0.229							
14.2C/14.2	1	12	31.88	9.47	11	15.69	6.99	-	+	0.164	12	3.75	1.61	11	9.33	6.08	-	-	0.736							
62762C/50983	1	14	6.07	4.38	15	1.09	1.09	-	-	0.213	14	5.62	4.37	15	1.09	1.09	-	-	0.256							
Habitat Means			13.40	5.07		9.40	4.57		+			3.60	2.43		3.47	2.40		+								
Fisher's		Power	0.183		Power-50%		0.697	P-value		0.140	Power	0.170		Power-50%		0.572	P-value		0.154	Power	---		Power-50%		---	P-value
Stouffer's		Power	0.114		Power-50%		0.769	P-value		0.126	Power	---		Power-50%		---	P-value		0.099	Power	---		Power-50%		---	P-value
14.1C/14.1	2	12	20.43	6.50	12	16.36	3.98	-	+	0.807	12	2.93	1.16	12	0.63	0.53	-	-	0.065							
14.2C/14.2	2	11	27.53	8.70	12	6.26	1.81	-	+	0.017	11	3.41	3.17	12	1.46	1.00	-	+	0.740							
62762C/50983	2	14	12.51	3.60	13	0.77	0.44	-	-	0.003	14	1.44	0.49	13	0.19	0.19	-	+	0.019							
Habitat Means			20.13	6.27		7.83	2.07		+			2.57	1.63		0.77	0.57		+								
Fisher's		Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.006	Power	---		Power-50%		---	P-value
Stouffer's		Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.003	Power	---		Power-50%		---	P-value
14.1C/14.1	3	11	50.80	8.90	12	43.04	6.29	-	-	0.399	11	6.84	1.90	12	13.23	3.84	-	-	0.302							
14.2C/14.2	3	7	70.91	8.64	11	23.99	5.19	-	-	0.001	7	5.56	2.54	11	5.59	1.54	-	-	0.694							
62762C/50983	3	12	53.45	6.04	13	11.85	5.45	-	+	0.000	12	3.44	0.96	13	4.43	1.77	-	-	0.983							
Habitat Means			58.40	7.83		26.30	5.67		+			5.27	1.80		7.73	2.37		-								
Fisher's		Power	---		Power-50%		---	P-value		0.000	Power	0.219		Power-50%		0.885	P-value		0.293	Power	---		Power-50%		---	P-value
Stouffer's		Power	---		Power-50%		---	P-value		0.000	Power	0.196		Power-50%		0.911	P-value		0.335	Power	---		Power-50%		---	P-value

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.74. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group: Bladed Greens								Bladed Greens (AE) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	11	0.12	0.12	11	0.00	0.00	-	+	0.341	11	0.12	0.12	11	0.00	0.00	-	+	0.341	11	0.12	0.12	11	0.00	0.00	-	+	0.341
14.2C/14.2	1	12	3.75	1.61	11	7.85	5.24	-	-	0.835	12	2.08	1.34	11	0.23	0.23	-	+	0.208	12	0.83	0.64	11	0.23	0.23	-	+	0.475
62762C/50983	1	14	5.98	4.39	15	1.09	1.09	-	+	0.225	14	0.18	0.18	15	0.00	0.00	-	-	0.336	14	0.18	0.18	15	0.00	0.00	-	+	0.336
Habitat Means			3.30	2.03		3.00	2.10		+			0.80	0.53		0.07	0.07		-			0.37	0.30		0.07	0.07		+	
Fisher's		Power	0.134			Power-50%	0.512	P-value		0.174	Power	---			Power-50%	---	P-value		0.071	Power	0.136			Power-50%	0.097	P-value		0.125
Stouffer's		Power	---			Power-50%	---	P-value		0.093	Power	---			Power-50%	---	P-value		0.065	Power	---			Power-50%	---	P-value		0.087
14.1C/14.1	2	12	1.36	0.81	12	0.63	0.53	-	+	0.497	12	0.73	0.55	12	0.32	0.23	-	+	0.688	12	0.73	0.55	12	0.32	0.23	-	-	0.688
14.2C/14.2	2	11	4.55	3.25	12	1.57	0.99	-	+	0.522	11	0.00	0.00	12	1.46	1.00	-	-	0.167	11	0.00	0.00	12	1.46	1.00	-	-	0.167
62762C/50983	2	14	1.34	0.50	13	0.00	0.00	-	+	0.011	14	0.81	0.41	13	0.00	0.00	-	+	0.047	14	0.81	0.41	13	0.00	0.00	-	+	0.047
Habitat Means			2.43	1.53		0.73	0.50		+			0.50	0.33		0.60	0.40		+			0.50	0.33		0.60	0.40		+	
Fisher's		Power	---			Power-50%	---	P-value		0.014	Power	0.218			Power-50%	0.327	P-value		0.133 y	Power	0.211			Power-50%	0.309	P-value		0.133 y
Stouffer's		Power	---			Power-50%	---	P-value		0.003	Power	---			Power-50%	---	P-value		0.062	Power	---			Power-50%	---	P-value		0.062
14.1C/14.1	3	11	6.83	1.98	12	15.73	4.20	-	-	0.185	11	6.15	1.91	12	13.13	3.85	-	-	0.234	11	6.15	1.91	12	13.13	3.85	-	-	0.234
14.2C/14.2	3	7	12.87	5.21	11	7.06	2.29	-	+	0.466	7	5.56	2.54	11	4.35	1.21	-	+	0.950	7	5.56	2.54	11	4.35	1.21	-	+	0.950
62762C/50983	3	12	5.43	1.62	13	2.22	1.40	-	+	0.031	12	2.30	0.74	13	2.12	1.38	-	+	0.431	12	2.30	0.74	13	2.12	1.38	-	+	0.431
Habitat Means			8.37	2.93		8.33	2.63		+			4.70	1.70		6.53	2.17		+			4.70	1.70		6.53	2.17		+	
Fisher's		Power	---			Power-50%	---	P-value		0.076	Power	0.090			Power-50%	0.886	P-value		0.569 y	Power	0.082			Power-50%	0.883	P-value		0.569 y
Stouffer's		Power	---			Power-50%	---	P-value		0.036	Power	0.029			Power-50%	0.911	P-value		0.345	Power	0.023			Power-50%	0.895	P-value		0.345

(a) Kornmannia, Monostroma, Ulva and Ulvaria.
x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Fine Filamentous Greens								Acrosiphonia sp. (A)								Chaetomorpha/Rhizoclonium (A) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	11	0.00	0.00	11	0.00	0.00	-	o	1.000	11	0.00	0.00	11	0.00	0.00	-	o	1.000	11	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	1	12	1.67	0.94	11	5.35	3.61	-	-	0.606	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
62762C/50983	1	14	2.06	1.19	15	0.00	0.00	-	+	0.060	14	0.18	0.18	15	0.00	0.00	-	+	0.336	14	0.18	0.18	15	0.00	0.00	-	+	0.336
Habitat Means			1.27	0.70		1.80	1.20		+			0.07	0.07		0.00	0.00		+			0.07	0.07		0.00	0.00		+	
Fisher's		Power	0.126			Power-50%	0.452	P-value		0.166 y	Power	---			Power-50%	---	P-value		0.386	Power	---			Power-50%	---	P-value		0.386
Stouffer's		Power	---			Power-50%	---	P-value		0.058	Power	---			Power-50%	---	P-value		0.189	Power	---			Power-50%	---	P-value		0.189
14.1C/14.1	2	12	0.42	0.28	12	0.32	0.32	-	+	0.680	12	0.42	0.28	12	0.00	0.00	-	+	0.166	12	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	2	11	4.32	3.27	12	0.11	0.11	-	+	0.234	11	1.14	1.14	12	0.11	0.11	-	+	0.508	11	0.00	0.00	12	0.00	0.00	-	o	1.000
62762C/50983	2	14	0.54	0.28	13	0.00	0.00	-	+	0.082	14	0.36	0.24	13	0.00	0.00	-	+	0.165	14	0.00	0.00	13	0.00	0.00	-	o	1.000
Habitat Means			1.73	1.30		0.13	0.13		+			0.63	0.53		0.03	0.03		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.046	Power	---			Power-50%	---	P-value		0.048	Power	---			Power-50%	---	P-value		0.655
Stouffer's		Power	---			Power-50%	---	P-value		0.020	Power	---			Power-50%	---	P-value		0.032	Power	---			Power-50%	---	P-value		0.500
14.1C/14.1	3	11	0.69	0.31	12	2.50	1.34	-	-	0.421	11	0.46	0.26	12	2.50	1.34	-	-	0.262	11	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	3	7	7.34	3.25	11	1.72	1.00	-	+	0.099	7	7.34	3.25	11	1.60	1.01	-	+	0.078	7	0.00	0.00	11	0.00	0.00	-	o	1.000
62762C/50983	3	12	2.93	1.50	13	0.10	0.10	-	+	0.051	12	2.93	1.50	13	0.10	0.10	-	+	0.051	12	0.00	0.00	13	0.00	0.00	-	o	1.000
Habitat Means			3.63	1.70		1.43	0.80		+			3.57	1.70		1.40	0.80		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.032	Power	---			Power-50%	---	P-value		0.028	Power	---			Power-50%	---	P-value		0.655
Stouffer's		Power	---			Power-50%	---	P-value		0.021	Power	---			Power-50%	---	P-value		0.024	Power	---			Power-50%	---	P-value		0.500

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.74. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Undisturbed. (Continued.)

Site Pair	Mvd	Cladophora sp. (AE) N	C	SE	N	O	SE	CV	D	P	Ulothrix sp. (AE) N	C	SE	N	O	SE	CV	D	P	Urospora sp. (AE) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	11	0.00	0.00	11	0.00	0.00	-	o	1.000	11	0.00	0.00	11	0.00	0.00	-	o	1.000	11	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	1.67	0.94	11	5.35	3.61	-	-	0.606
62762C/50983	1	14	0.18	0.18	15	0.00	0.00	-	+	0.336	14	0.00	0.00	15	0.00	0.00	-	+	0.167	14	1.52	1.05	15	0.00	0.00	-	+	0.167
Habitat Means			0.07	0.07		0.00	0.00		+			0.00	0.00		0.00	0.00		o			1.07	0.67		1.80	1.20		-	
Fisher's		Power ---			Power-50%		---	P-value		0.386	Power	---		Power-50%		---	P-value		0.655	Power	0.053		Power-50%		0.268	P-value		0.314 y
Stouffer's		Power ---			Power-50%		---	P-value		0.189	Power	---		Power-50%		---	P-value		0.500	Power	0.059		Power-50%		0.330	P-value		0.132
14.1C/14.1	2	12	0.00	0.00	12	0.32	0.32	-	-	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	3.18	3.18	12	0.00	0.00	-	-	0.341
62762C/50983	2	14	0.18	0.18	13	0.00	0.00	-	-	0.336	14	0.00	0.00	13	0.00	0.00	-	o	1.000	14	0.00	0.00	13	0.00	0.00	-	o	1.000
Habitat Means			0.07	0.07		0.10	0.10		+			0.00	0.00		0.00	0.00		o			1.07	1.07		0.00	0.00		+	
Fisher's		Power ---			Power-50%		---	P-value		0.502 y	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.389
Stouffer's		Power ---			Power-50%		---	P-value		0.272	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.393
14.1C/14.1	3	11	0.23	0.23	12	0.00	0.00	-	+	0.341	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	3	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.12	0.12	-	-	0.341
62762C/50983	3	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	0.00	0.00	13	0.00	0.00	-	o	1.000
Habitat Means			0.07	0.07		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.03	0.03		-	
Fisher's		Power ---			Power-50%		---	P-value		0.389	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.389
Stouffer's		Power ---			Power-50%		---	P-value		0.393	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.393

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Morphological Group: Tubular and Saccate Greens N	C	SE	N	O	SE	CV	D	P	Blidingia/Enteromorpha (AE) (a) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	11	0.00	0.00	11	0.00	0.00	-	o	1.000	11	0.00	0.00	11	0.00	0.00	-	o	1.000								
14.2C/14.2	1	12	0.00	0.00	11	2.27	2.04	-	-	0.224	12	0.00	0.00	11	2.27	2.04	-	-	0.224								
62762C/50983	1	14	3.75	3.75	15	1.09	1.09	-	+	0.635	14	3.75	3.75	15	1.09	1.09	-	+	0.635								
Habitat Means			1.27	1.27		1.13	1.03		-			1.27	1.27		1.13	1.03		-									
Fisher's		Power 0.004			Power-50%		---	P-value		0.367 y	Power 0.004			Power-50%		---	P-value		0.367 y	Power ---			Power-50%		---	P-value	
Stouffer's		Power 0.008			Power-50%		---	P-value		0.535	Power 0.010			Power-50%		---	P-value		0.535	Power ---			Power-50%		---	P-value	
14.1C/14.1	2	12	0.21	0.21	12	0.00	0.00	-	+	0.339	12	0.21	0.21	12	0.00	0.00	-	+	0.339								
14.2C/14.2	2	11	0.23	0.23	12	0.00	0.00	-	+	0.341	11	0.23	0.23	12	0.00	0.00	-	+	0.341								
62762C/50983	2	14	0.00	0.00	13	0.00	0.00	-	o	1.000	14	0.00	0.00	13	0.00	0.00	-	o	1.000								
Habitat Means			0.13	0.13		0.00	0.00		+			0.13	0.13		0.00	0.00		+									
Fisher's		Power ---			Power-50%		---	P-value		0.205	Power ---			Power-50%		---	P-value		0.205	Power ---			Power-50%		---	P-value	
Stouffer's		Power ---			Power-50%		---	P-value		0.293	Power ---			Power-50%		---	P-value		0.293	Power ---			Power-50%		---	P-value	
14.1C/14.1	3	11	0.00	0.00	12	0.11	0.11	-	-	0.339	11	0.00	0.00	12	0.11	0.11	-	-	0.339								
14.2C/14.2	3	7	0.00	0.00	11	1.03	0.56	-	-	0.085	7	0.00	0.00	11	1.03	0.56	-	-	0.085								
62762C/50983	3	12	0.22	0.15	13	0.00	0.00	-	+	0.166	12	0.11	0.11	13	0.00	0.00	-	+	0.339								
Habitat Means			0.07	0.07		0.37	0.23		-			0.03	0.03		0.37	0.23		-									
Fisher's		Power 0.193			Power-50%		0.004	P-value		0.123	Power 0.171			Power-50%		---	P-value		0.115	Power ---			Power-50%		---	P-value	
Stouffer's		Power 0.047			Power-50%		0.001	P-value		0.693	Power 0.113			Power-50%		---	P-value		0.544	Power ---			Power-50%		---	P-value	

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.75. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group: Bladed Browns								Alaria sp. (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	11	59.77	11.69	11	31.14	9.64	-	+	0.090	11	58.30	11.95	11	31.14	9.64	-	+	0.106	11	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	1	12	13.33	5.22	11	0.57	0.46	-	+	0.026	12	13.33	5.22	11	0.12	0.12	-	+	0.017	12	0.00	0.00	11	0.00	0.00	-	o	1.000
62762C/50983	1	14	17.60	6.01	15	10.67	4.70	-	+	0.342	14	17.60	6.01	15	10.67	4.70	-	+	0.342	14	0.00	0.00	15	0.00	0.00	-	o	1.000
Habitat Means			30.23	7.63		14.13	4.93		+			29.73	7.73		13.97	4.80		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.005	Power	---		Power-50%		---	P-value		0.004	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.023	Power	---		Power-50%		---	P-value		0.022	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	12	55.12	9.23	12	33.76	11.29	-	+	0.171	12	45.02	10.32	12	33.76	11.29	-	+	0.486	12	0.11	0.11	12	0.00	0.00	-	-	0.339
14.2C/14.2	2	11	30.35	8.92	12	14.28	7.41	-	+	0.147	11	29.33	8.65	12	14.07	7.34	-	+	0.155	11	0.45	0.45	12	0.00	0.00	-	-	0.341
62762C/50983	2	14	41.18	6.86	13	57.89	10.70	-	-	0.353	14	40.73	6.80	13	57.70	10.66	-	-	0.345	14	0.00	0.00	13	0.00	0.00	-	o	1.000
Habitat Means			42.23	8.33		35.33	9.80		+			38.33	8.60		35.20	9.77		+			0.20	0.20		0.00	0.00		-	
Fisher's		Power	0.440		Power-50%		0.747	P-value		0.104	Power	0.313		Power-50%		0.708	P-value		0.215	Power	---		Power-50%		---	P-value		0.205
Stouffer's		Power	0.366		Power-50%		0.779	P-value		0.518	Power	0.283		Power-50%		0.751	P-value		0.602	Power	---		Power-50%		---	P-value		0.293
14.1C/14.1	3	11	45.13	8.86	12	23.96	8.25	-	+	0.087	11	42.52	9.39	12	23.96	8.25	-	+	0.177	11	22.16	10.91	12	8.97	7.42	-	+	0.315
14.2C/14.2	3	7	22.33	6.50	11	37.52	7.19	-	-	0.290	7	22.33	6.50	11	37.18	7.14	-	-	0.298	7	9.11	4.55	11	2.62	2.04	-	+	0.092
62762C/50983	3	12	47.93	6.02	13	65.58	8.10	-	-	0.102	12	46.88	6.52	13	63.28	7.95	-	-	0.135	12	32.09	8.03	13	0.00	0.00	-	+	0.001
Habitat Means			38.43	7.13		42.37	7.87		-			37.23	7.47		41.50	7.80		-			21.13	7.83		3.87	3.13		+	
Fisher's		Power	0.130		Power-50%		0.902	P-value		0.129x	Power	0.141		Power-50%		0.754	P-value		0.153	Power	---		Power-50%		---	P-value		0.000
Stouffer's		Power	---		Power-50%		---	P-value		0.095	Power	0.082		Power-50%		0.770	P-value		0.100	Power	---		Power-50%		---	P-value		0.000

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Fucus gardneri (P)								Adult Fucus gardneri (P) (> 2cm)								Juvenile Fucus gardneri (P) (<= 2cm)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	11	58.30	11.95	11	31.14	9.64	-	+	0.106	11	57.05	12.05	11	30.80	9.73	-	+	0.111	11	1.25	0.70	11	0.35	0.25	-	+	0.355
14.2C/14.2	1	12	13.33	5.22	11	0.12	0.12	-	+	0.017	12	12.40	5.09	11	0.00	0.00	-	+	0.015	12	0.94	0.67	11	0.12	0.12	-	+	0.333
62762C/50983	1	14	17.60	6.01	15	10.67	4.70	-	+	0.342	14	17.42	6.03	15	8.09	4.00	-	+	0.211	14	0.18	0.18	15	2.59	1.55	-	-	0.166
Habitat Means			29.73	7.73		13.97	4.80		+			28.97	7.73		12.97	4.57		+			0.80	0.53		1.03	0.67		+	
Fisher's		Power	---		Power-50%		---	P-value		0.004	Power	---		Power-50%		---	P-value		0.003	Power	0.095		Power-50%		0.399	P-value		0.301 y
Stouffer's		Power	---		Power-50%		---	P-value		0.022	Power	---		Power-50%		---	P-value		0.011	Power	0.030		Power-50%		0.482	P-value		0.767
14.1C/14.1	2	12	44.91	10.36	12	33.76	11.29	-	+	0.492	12	44.28	10.22	12	33.76	11.29	-	-	0.510	12	0.63	0.63	12	0.00	0.00	-	+	0.339
14.2C/14.2	2	11	28.87	8.49	12	14.07	7.34	-	+	0.160	11	27.63	8.54	12	14.07	7.34	-	+	0.229	11	1.26	0.58	12	0.00	0.00	-	+	0.026
62762C/50983	2	14	40.73	6.80	13	57.70	10.66	-	-	0.345	14	40.73	6.80	13	57.51	10.62	-	-	0.352	14	0.00	0.00	13	0.19	0.19	-	-	0.337
Habitat Means			38.17	8.57		35.20	9.77		+			37.53	8.50		35.13	9.73		-			0.63	0.40		0.07	0.07		+	
Fisher's		Power	0.295		Power-50%		0.705	P-value		0.221	Power	0.285		Power-50%		0.733	P-value		0.281	Power	---		Power-50%		---	P-value		0.049
Stouffer's		Power	0.258		Power-50%		0.766	P-value		0.605	Power	0.249		Power-50%		0.758	P-value		0.626	Power	0.174		Power-50%		0.220	P-value		0.488
14.1C/14.1	3	11	20.35	6.65	12	13.86	4.50	-	+	0.701	11	20.35	6.65	12	13.86	4.50	-	-	0.701	11	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	3	7	13.23	6.70	11	34.56	6.64	-	-	0.061	7	13.23	6.70	11	34.11	6.60	-	-	0.064	7	0.00	0.00	11	0.45	0.30	-	-	0.167
62762C/50983	3	12	14.79	5.23	13	63.28	7.95	-	-	0.000	12	14.79	5.23	13	63.18	7.94	-	-	0.000	12	0.00	0.00	13	0.10	0.10	-	-	0.337
Habitat Means			16.13	6.20		37.27	6.37		-			16.13	6.20		37.07	6.33		-			0.00	0.00		0.20	0.13		-	
Fisher's		Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.000	Power	0.175		Power-50%		---	P-value		0.128
Stouffer's		Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.000	Power	0.173		Power-50%		---	P-value		0.102

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.75. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Undisturbed. (Continued.)

Site Pair	Mvd	Fucus Stipes (P) (a) N	C	SE	N	O	SE	CV	D	P	Petalonia/Punctaria (AE) (b) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Coarse Filamentous Browns N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	11	0.00	0.00	11	0.46	0.26	-	-	0.086	11	0.00	0.00	11	0.00	0.00	-	o	1.000	11	0.23	0.23	11	0.00	0.00	-	+	0.341
14.2C/14.2	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
62762C/50983	1	14	0.00	0.00	15	0.17	0.12	-	-	0.164	14	0.00	0.00	15	0.00	0.00	-	o	1.000	14	0.00	0.00	15	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.23	0.13		-			0.00	0.00		0.00	0.00		o			0.07	0.07		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.049	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.389
Stouffer's		Power	---		Power-50%		---	P-value		0.039	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.393
14.1C/14.1	2	12	0.21	0.21	12	0.32	0.23	-	-	0.646	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	8.13	5.31	12	0.00	0.00	-	-	0.075
14.2C/14.2	2	11	0.45	0.30	12	0.52	0.36	-	-	0.980	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.45	0.45	12	0.00	0.00	-	+	0.341
62762C/50983	2	14	0.00	0.00	13	0.00	0.00	-	o	1.000	14	0.00	0.00	13	0.00	0.00	-	o	1.000	14	0.00	0.00	13	0.00	0.00	-	o	1.000
Habitat Means			0.23	0.17		0.27	0.20		-			0.00	0.00		0.00	0.00		o			2.87	1.93		0.00	0.00		-	
Fisher's		Power	0.023		Power-50%		0.088	P-value		0.534	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.074
Stouffer's		Power	0.032		Power-50%		0.107	P-value		0.445	Power	---		Power-50%		---	P-value		0.500	Power	0.145		Power-50%		0.093	P-value		0.218
14.1C/14.1	3	11	0.00	0.00	12	0.22	0.15	-	-	0.166	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	1.94	1.21	12	0.00	0.00	-	+	0.108
14.2C/14.2	3	7	0.00	0.00	11	1.60	0.89	-	-	0.060	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.23	0.23	-	-	0.341
62762C/50983	3	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	0.00	0.00	13	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.60	0.37		-			0.00	0.00		0.00	0.00		o			0.63	0.40		0.07	0.07		+	
Fisher's		Power	---		Power-50%		---	P-value		0.038	Power	---		Power-50%		---	P-value		0.655	Power	0.002		Power-50%		0.003	P-value		0.270
Stouffer's		Power	0.580		Power-50%		---	P-value		0.176	Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.001	P-value		0.426

(a) Dead Fucus plants or stipes without blades.
(b) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Analipus japonicus (P) N	C	SE	N	O	SE	CV	D	P	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	11	0.00	0.00	11	0.00	0.00	-	o	1.000	11	0.23	0.23	11	0.00	0.00	-	+	0.341	11	1.25	1.25	11	0.00	0.00	-	+	0.341
14.2C/14.2	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
62762C/50983	1	14	0.00	0.00	15	0.00	0.00	-	o	1.000	14	0.00	0.00	15	0.00	0.00	-	o	1.000	14	0.00	0.00	15	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.07	0.07		0.00	0.00		+			0.43	0.43		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.389	Power	---		Power-50%		---	P-value		0.389
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.393	Power	---		Power-50%		---	P-value		0.393
14.1C/14.1	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	8.13	5.31	12	0.00	0.00	-	+	0.075	12	1.98	1.17	12	0.00	0.00	-	+	0.092
14.2C/14.2	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.45	0.45	12	0.00	0.00	-	+	0.341	11	0.00	0.00	12	0.00	0.00	-	o	1.000
62762C/50983	2	14	0.00	0.00	13	0.00	0.00	-	o	1.000	14	0.00	0.00	13	0.00	0.00	-	o	1.000	14	0.45	0.36	13	0.19	0.19	-	-	0.583
Habitat Means			0.00	0.00		0.00	0.00		o			2.87	1.93		0.00	0.00		+			0.83	0.53		0.07	0.07		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.074	Power	0.129		Power-50%		0.139	P-value		0.124
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.160		Power-50%		0.081	P-value		0.218	Power	0.191		Power-50%		0.228	P-value		0.163
14.1C/14.1	3	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	1.94	1.21	12	0.00	0.00	-	-	0.108	11	0.45	0.45	12	0.00	0.00	-	-	0.341
14.2C/14.2	3	7	0.00	0.00	11	0.23	0.23	-	-	0.341	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.12	0.12	-	-	0.341
62762C/50983	3	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	1.05	0.83	13	2.32	1.09	-	-	0.267
Habitat Means			0.00	0.00		0.07	0.07		-			0.63	0.40		0.00	0.00		-			0.53	0.43		0.80	0.40		-	
Fisher's		Power	---		Power-50%		---	P-value		0.389	Power	0.004		Power-50%		0.005	P-value		0.197	Power	0.063		Power-50%		0.037	P-value		0.242
Stouffer's		Power	---		Power-50%		---	P-value		0.393	Power	0.000		Power-50%		0.001	P-value		0.324	Power	0.046		Power-50%		0.070	P-value		0.155

(a) Genera not separated.

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.75. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Undisturbed. (Continued.)

Site Pair	Mvd	Fine Filamentous Browns (AE) (b) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Saccate Browns N	C	SE	N	O	SE	CV	D	P	*Leathesia/Colpomenia* (A) (a) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	11	1.25	1.25	11	0.00	0.00	-	+	0.341	11	0.00	0.00	11	0.00	0.00	-	o	1.000	11	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
62762C/50983	1	14	0.00	0.00	15	0.00	0.00	-	o	1.000	14	0.00	0.00	15	0.00	0.00	-	o	1.000	14	0.00	0.00	15	0.00	0.00	-	o	1.000
Habitat Means			0.43	0.43		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.389	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.393	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	12	1.98	1.17	12	0.00	0.00	-	-	0.092	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
62762C/50983	2	14	0.45	0.36	13	0.19	0.19	-	+	0.583	14	0.00	0.00	13	0.00	0.00	-	o	1.000	14	0.00	0.00	13	0.00	0.00	-	o	1.000
Habitat Means			0.83	0.53		0.07	0.07		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.127		Power-50%		0.158	P-value		0.124	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.192		Power-50%		0.229	P-value		0.163	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	11	0.45	0.45	12	0.00	0.00	-	+	0.341	11	0.23	0.23	12	0.00	0.00	-	+	0.341	11	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	3	7	0.00	0.00	11	0.12	0.12	-	-	0.341	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.00	0.00	-	o	1.000
62762C/50983	3	12	1.05	0.83	13	2.32	1.09	-	-	0.267	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	0.00	0.00	13	0.00	0.00	-	o	1.000
Habitat Means			0.53	0.43		0.80	0.40		-			0.07	0.07		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.062		Power-50%		0.039	P-value		0.242	Power	---		Power-50%		---	P-value		0.389	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.046		Power-50%		0.065	P-value		0.155	Power	---		Power-50%		---	P-value		0.393	Power	---		Power-50%		---	P-value		0.500

(b) Blachista, Petrocarpus and Pilayella.

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Soranthera ulvoidea (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Crustose Browns N	C	SE	N	O	SE	CV	D	P	*Ralfsia/Petroderma* (P) (a) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	11	0.00	0.00	11	0.00	0.00	-	o	1.000	11	0.00	0.00	11	0.00	0.00	-	o	1.000	11	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.45	0.45	-	-	0.341	12	0.00	0.00	11	0.45	0.45	-	-	0.341
62762C/50983	1	14	0.00	0.00	15	0.00	0.00	-	o	1.000	14	0.00	0.00	15	0.00	0.00	-	o	1.000	14	0.00	0.00	15	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.17	0.17		-			0.00	0.00		0.17	0.17		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.389	Power	---		Power-50%		---	P-value		0.389
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.393	Power	---		Power-50%		---	P-value		0.393
14.1C/14.1	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.57	0.57	12	0.21	0.21	-	+	0.709	11	0.57	0.57	12	0.21	0.21	-	-	0.709
62762C/50983	2	14	0.00	0.00	13	0.00	0.00	-	o	1.000	14	0.00	0.00	13	0.00	0.00	-	o	1.000	14	0.00	0.00	13	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.20	0.20		0.07	0.07		-			0.20	0.20		0.07	0.07		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.564	Power	---		Power-50%		---	P-value		0.564
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.458	Power	---		Power-50%		---	P-value		0.458
14.1C/14.1	3	11	0.23	0.23	12	0.00	0.00	-	+	0.341	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	3	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.00	0.00	-	o	1.000
62762C/50983	3	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	0.00	0.00	13	0.00	0.00	-	o	1.000
Habitat Means			0.07	0.07		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.389	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.393	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.76. Algal Percent Cover, Rhodophyta, Cook Inlet/Kenai, Sheltered Rocky. June 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta									Morphological Group: Bladed Reds									Bangia sp. (AE)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	11	9.33	6.06	11	21.15	7.93	-	-	0.107	11	2.16	1.64	11	3.41	2.22	-	+	0.667	11	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	1	12	31.78	8.78	11	10.24	4.20	-	+	0.078	12	25.94	8.35	11	2.85	1.66	-	+	0.017	12	0.00	0.00	11	1.48	1.48	-	-	0.341
62762C/50983	1	14	2.24	0.95	15	0.00	0.00	-	+	0.013	14	0.00	0.00	15	0.00	0.00	-	o	1.000	14	0.00	0.00	15	0.00	0.00	-	o	1.000
Habitat Means			14.43	5.30		10.47	4.03		+			9.37	3.33		2.10	1.30		+			0.00	0.00		0.50	0.50		-	
Fisher's		Power	---		Power-50%		---	P-value		0.010	Power	---		Power-50%		---	P-value		0.069	Power	---		Power-50%		---	P-value		0.389
Stouffer's		Power	---		Power-50%		---	P-value		0.010	Power	0.164		Power-50%		0.249	P-value		0.289	Power	---		Power-50%		---	P-value		0.393
14.1C/14.1	2	12	27.93	5.73	12	37.50	9.11	-	-	0.582	12	1.05	0.74	12	10.94	3.04	-	-	0.002	12	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	2	11	32.97	7.55	12	17.62	4.21	-	+	0.082	11	23.08	6.59	12	3.33	2.67	-	+	0.003	11	0.00	0.00	12	0.00	0.00	-	o	1.000
62762C/50983	2	14	15.19	4.62	13	0.87	0.52	-	+	0.002	14	3.21	1.16	13	0.00	0.00	-	+	0.005	14	0.00	0.00	13	0.00	0.00	-	o	1.000
Habitat Means			25.37	5.97		18.67	4.60		+			9.13	2.83		4.73	1.90		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.002	Power	---		Power-50%		---	P-value		0.000x	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.006	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	11	42.07	8.09	12	51.36	6.61	-	-	0.435	11	7.27	2.73	12	22.73	4.70	-	-	0.011	11	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	3	7	59.67	6.79	11	26.26	5.67	-	+	0.004	7	48.96	10.42	11	16.05	4.18	-	+	0.008	7	0.00	0.00	11	0.00	0.00	-	o	1.000
62762C/50983	3	12	19.70	3.59	13	8.95	4.51	-	+	0.015	12	8.45	1.61	13	6.74	3.87	-	+	0.085	12	0.00	0.00	13	0.00	0.00	-	o	1.000
Habitat Means			40.50	6.17		28.90	5.60		+			21.60	4.90		15.17	4.27		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.008x	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.002	Power	---		Power-50%		---	P-value		0.054	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Gigartinaceae Group (P) (a)									Palmaria spp. (A)									*Phycodrys riggii* (A)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	11	1.83	1.33	11	2.27	2.04	-	-	0.978	11	0.00	0.00	11	0.00	0.00	-	o	1.000	11	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	1	12	0.32	0.23	11	0.00	0.00	-	+	0.172	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
62762C/50983	1	14	0.00	0.00	15	0.00	0.00	-	o	1.000	14	0.00	0.00	15	0.00	0.00	-	o	1.000	14	0.00	0.00	15	0.00	0.00	-	o	1.000
Habitat Means			0.70	0.50		0.77	0.67		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.028		Power-50%		0.117	P-value		0.266 y	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.050		Power-50%		0.195	P-value		0.351	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	12	0.21	0.21	12	5.12	1.80	-	-	0.010	12	0.21	0.21	12	0.21	0.21	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	2	11	2.85	1.37	12	3.13	2.68	-	-	0.735	11	2.62	1.49	12	0.21	0.21	-	+	0.154	11	0.00	0.00	12	0.00	0.00	-	o	1.000
62762C/50983	2	14	0.00	0.00	13	0.00	0.00	-	o	1.000	14	3.21	1.16	13	0.00	0.00	-	+	0.005	14	0.00	0.00	13	0.00	0.00	-	o	1.000
Habitat Means			1.03	0.53		2.73	1.50		-			2.00	0.97		0.13	0.13		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.031	Power	---		Power-50%		---	P-value		0.005	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.119		Power-50%		0.239	P-value		0.204	Power	---		Power-50%		---	P-value		0.002	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	11	2.39	0.72	12	11.16	2.18	-	-	0.002	11	0.35	0.35	12	3.97	2.52	-	-	0.204	11	0.00	0.00	12	0.21	0.21	-	-	0.339
14.2C/14.2	3	7	1.26	0.91	11	3.19	1.83	-	-	0.521	7	6.97	3.88	11	7.96	2.82	-	-	0.735	7	0.00	0.00	11	0.00	0.00	-	o	1.000
62762C/50983	3	12	0.74	0.36	13	1.45	0.98	-	-	0.986	12	7.20	1.68	13	5.29	3.49	-	+	0.106	12	0.00	0.00	13	0.00	0.00	-	o	1.000
Habitat Means			1.47	0.67		5.30	1.67		-			4.87	2.00		5.77	2.93		-			0.00	0.00		0.07	0.07		-	
Fisher's		Power	---		Power-50%		---	P-value		0.006	Power	0.052		Power-50%		0.698	P-value		0.352	Power	---		Power-50%		---	P-value		0.388
Stouffer's		Power	0.765		Power-50%		0.952	P-value		0.139	Power	0.054		Power-50%		0.719	P-value		0.846	Power	---		Power-50%		---	P-value		0.393

(a) Chondrus, Iridaea, Mastocarpus and Rhodoglossum.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.76. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Undisturbed. (Continued.)

Site Pair	Mvd	Porphyra sp. (A) N	C	SE	N	O	SE	CV	D	P	Tokidadendron kurilensis (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Coarse Filamentous Reds N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	11	0.35	0.35	11	1.14	1.14	-	-	0.692	11	0.00	0.00	11	0.00	0.00	-	o	1.000	11	0.80	0.80	11	12.52	4.89	-	-	0.015
14.2C/14.2	1	12	25.63	8.34	11	1.36	0.97	+	+	0.009	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	5.43	1.49	11	5.69	4.11	-	-	0.564
62762C/50983	1	14	0.00	0.00	15	0.00	0.00	-	o	1.000	14	0.00	0.00	15	0.00	0.00	-	o	1.000	14	1.97	0.81	15	0.00	0.00	-	+	0.013
Habitat Means			8.67	2.90		0.83	0.70		+			0.00	0.00		0.00	0.00		o			2.73	1.03		6.07	3.00		-	
Fisher's		Power ---			Power-50%	---		P-value		0.043	Power ---			Power-50%	---		P-value		0.655	Power ---			Power-50%	---		P-value		0.056x
Stouffer's		Power 0.224			Power-50%	0.082		P-value		0.264	Power ---			Power-50%	---		P-value		0.500	Power 0.001			Power-50%	0.833		P-value		0.923
14.1C/14.1	2	12	0.63	0.53	12	5.63	2.51	-	-	0.030	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	14.28	3.81	12	16.46	5.25	-	-	0.768
14.2C/14.2	2	11	17.63	7.36	12	0.00	0.00	-	+	0.013	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	9.90	4.52	12	7.61	2.39	-	+	0.522
62762C/50983	2	14	0.00	0.00	13	0.00	0.00	-	o	1.000	14	0.00	0.00	13	0.00	0.00	-	o	1.000	14	4.92	2.14	13	0.87	0.52	-	+	0.022
Habitat Means			6.07	2.63		1.87	0.83		+			0.00	0.00		0.00	0.00		o			9.70	3.47		8.33	2.73		+	
Fisher's		Power ---			Power-50%	---		P-value		0.074x	Power ---			Power-50%	---		P-value		0.655	Power ---			Power-50%	---		P-value		0.049
Stouffer's		Power 0.004			Power-50%	0.198		P-value		0.464	Power ---			Power-50%	---		P-value		0.500	Power ---			Power-50%	---		P-value		0.014
14.1C/14.1	3	11	0.45	0.30	12	5.62	2.68	-	-	0.032	11	4.10	2.28	12	1.78	0.78	-	-	0.615	11	19.90	5.35	12	22.83	5.01	-	-	0.544
14.2C/14.2	3	7	40.74	12.13	11	4.89	2.00	-	+	0.003	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	8.40	7.36	11	1.60	1.24	-	+	0.241
62762C/50983	3	12	0.32	0.23	13	0.00	0.00	-	+	0.172	12	0.21	0.21	13	0.00	0.00	-	-	0.339	12	3.87	1.70	13	1.16	0.52	-	+	0.214
Habitat Means			13.83	4.20		3.50	1.57		-			1.43	0.83		0.60	0.27		-			10.73	4.83		8.53	2.23		-	
Fisher's		Power ---			Power-50%	---		P-value		0.006x	Power 0.034			Power-50%	0.094		P-value		0.294	Power 0.258			Power-50%	0.571		P-value		0.155
Stouffer's		Power ---			Power-50%	---		P-value		0.068	Power 0.052			Power-50%	0.125		P-value		0.154	Power ---			Power-50%	---		P-value		0.097

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Articulate Coralline Algae (A) N	C	SE	N	O	SE	CV	D	P	Cryptosiphonia woodii (A) N	C	SE	N	O	SE	CV	D	P	Endocladia muricata (P) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	11	0.00	0.00	11	0.00	0.00	-	o	1.000	11	0.00	0.00	11	0.12	0.12	-	-	0.341	11	0.35	0.35	11	0.57	0.39	-	-	0.614
14.2C/14.2	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	2.93	1.29	11	0.68	0.49	-	+	0.151
62762C/50983	1	14	0.00	0.00	15	0.00	0.00	-	o	1.000	14	0.00	0.00	15	0.00	0.00	-	o	1.000	14	1.88	0.82	15	0.00	0.00	-	+	0.023
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.03	0.03		-			1.73	0.83		0.43	0.30		+	
Fisher's		Power ---			Power-50%	---		P-value		0.655	Power ---			Power-50%	---		P-value		0.389	Power ---			Power-50%	---		P-value		0.022
Stouffer's		Power ---			Power-50%	---		P-value		0.500	Power ---			Power-50%	---		P-value		0.393	Power ---			Power-50%	---		P-value		0.010
14.1C/14.1	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	2.20	1.25	12	0.83	0.83	-	+	0.263	12	0.00	0.00	12	3.13	1.90	-	-	0.063
14.2C/14.2	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	6.72	4.77	12	3.03	1.93	-	+	0.375
62762C/50983	2	14	0.00	0.00	13	0.00	0.00	-	o	1.000	14	0.81	0.45	13	0.00	0.00	-	-	0.086	14	0.54	0.39	13	0.29	0.21	-	+	0.791
Habitat Means			0.00	0.00		0.00	0.00		o			1.00	0.60		0.27	0.27		-			2.40	1.73		2.13	1.33		+	
Fisher's		Power ---			Power-50%	---		P-value		0.655	Power ---			Power-50%	---		P-value		0.068	Power 0.032			Power-50%	0.211		P-value		0.510x
Stouffer's		Power ---			Power-50%	---		P-value		0.500	Power ---			Power-50%	---		P-value		0.029	Power 0.002			Power-50%	0.265		P-value		0.514
14.1C/14.1	3	11	0.00	0.00	12	0.52	0.29	-	-	0.086	11	7.96	2.05	12	2.31	0.92	-	+	0.041	11	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	3	7	0.19	0.19	11	0.00	0.00	-	+	0.356	7	0.00	0.00	11	0.24	0.16	-	-	0.167	7	0.19	0.19	11	0.00	0.00	-	+	0.356
62762C/50983	3	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	0.22	0.15	13	0.48	0.39	-	-	0.762	12	0.00	0.00	13	0.19	0.19	-	-	0.337
Habitat Means			0.07	0.07		0.17	0.10		-			2.73	0.77		1.00	0.50		-			0.07	0.07		0.07	0.07		-	
Fisher's		Power 0.027			Power-50%	---		P-value		0.232	Power 0.019			Power-50%	0.658		P-value		0.327xy	Power ---			Power-50%	---		P-value		0.501 y
Stouffer's		Power 0.003			Power-50%	---		P-value		0.410	Power 0.001			Power-50%	0.667		P-value		0.465	Power ---			Power-50%	---		P-value		0.269

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.76. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Undisturbed. (Continued.)

Site Pair	Mvd	Gloiopeltis furcata (A) N	C	SE	N	O	SE	CV	D	P	Microcladia borealis (A) N	C	SE	N	O	SE	CV	D	P	Neorhodomela/Rhodomela (P) (a) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	11	0.23	0.23	11	10.12	4.98	-	-	0.053	11	0.00	0.00	11	0.00	0.00	-	o	1.000	11	0.00	0.00	11	1.37	0.94	-	-	0.169
14.2C/14.2	1	12	2.51	0.88	11	5.01	3.92	-	-	0.905	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
62762C/50983	1	14	0.00	0.00	15	0.00	0.00	-	o	1.000	14	0.00	0.00	15	0.00	0.00	-	o	1.000	14	0.00	0.00	15	0.00	0.00	-	o	1.000
Habitat Means			0.90	0.37		5.03	2.97		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.47	0.30		-	
Fisher's		Power	0.140		Power-50%		0.232	P-value		0.116	Power	---		Power-50%		---	P-value		0.655	Power	0.008		Power-50%		---	P-value		0.259
Stouffer's		Power	0.154		Power-50%		0.243	P-value		0.279	Power	---		Power-50%		---	P-value		0.500	Power	0.001		Power-50%		---	P-value		0.347
14.1C/14.1	2	12	0.42	0.42	12	8.76	2.20	-	-	0.001	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	1.26	0.77	12	0.00	0.00	-	+	0.102
14.2C/14.2	2	11	1.83	0.92	12	4.48	1.82	-	-	0.230	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
62762C/50983	2	14	0.00	0.00	13	0.58	0.42	-	-	0.172	14	0.00	0.00	13	0.00	0.00	-	o	1.000	14	1.07	0.73	13	0.00	0.00	-	+	0.165
Habitat Means			0.73	0.43		4.63	1.47		-			0.00	0.00		0.00	0.00		o			0.80	0.50		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.055
Stouffer's		Power	---		Power-50%		---	P-value		0.005	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.041
14.1C/14.1	3	11	0.00	0.00	12	1.36	0.75	-	-	0.086	11	0.00	0.00	12	0.11	0.11	-	-	0.339	11	0.00	0.00	12	0.11	0.11	-	-	0.339
14.2C/14.2	3	7	0.54	0.37	11	0.12	0.12	-	+	0.251	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.00	0.00	-	o	1.000
62762C/50983	3	12	0.00	0.00	13	0.48	0.39	-	-	0.189	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	0.21	0.21	13	0.00	0.00	-	-	0.339
Habitat Means			0.17	0.13		0.67	0.43		-			0.00	0.00		0.03	0.03		-			0.07	0.07		0.03	0.03		-	
Fisher's		Power	---		Power-50%		---	P-value		0.080	Power	---		Power-50%		---	P-value		0.388	Power	---		Power-50%		---	P-value		0.505 y
Stouffer's		Power	---		Power-50%		---	P-value		0.086	Power	---		Power-50%		---	P-value		0.393	Power	---		Power-50%		---	P-value		0.727

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Odonthalia floccosa (P) N	C	SE	N	O	SE	CV	D	P	Ptilota/Neoptilota (P) (b) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Saccate Reds N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	11	0.23	0.23	11	0.35	0.25	-	-	0.646	11	0.00	0.00	11	0.00	0.00	-	o	1.000	11	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
62762C/50983	1	14	0.09	0.09	15	0.00	0.00	-	+	0.336	14	0.00	0.00	15	0.00	0.00	-	o	1.000	14	0.00	0.00	15	0.00	0.00	-	o	1.000
Habitat Means			0.10	0.10		0.13	0.10		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.004		Power-50%		---	P-value		0.453 y	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.009		Power-50%		---	P-value		0.227	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	12	10.42	3.75	12	3.76	3.64	-	+	0.084	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	2.09	1.43	12	0.32	0.23	-	+	0.314
14.2C/14.2	2	11	1.36	0.91	12	0.11	0.11	-	+	0.178	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
62762C/50983	2	14	2.51	1.86	13	0.00	0.00	-	+	0.066	14	0.00	0.00	13	0.00	0.00	-	o	1.000	14	5.09	1.85	13	0.00	0.00	-	-	0.006
Habitat Means			4.77	2.20		1.30	1.23		+			0.00	0.00		0.00	0.00		o			2.40	1.10		0.10	0.07		-	
Fisher's		Power	---		Power-50%		---	P-value		0.006	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.010
Stouffer's		Power	---		Power-50%		---	P-value		0.005	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.002
14.1C/14.1	3	11	9.21	3.01	12	8.35	2.15	-	+	0.980	11	2.73	1.67	12	10.11	4.83	-	-	0.247	11	2.62	1.53	12	1.78	0.68	-	-	0.989
14.2C/14.2	3	7	7.50	7.50	11	1.26	1.02	-	+	0.612	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.54	0.54	11	0.35	0.18	-	+	0.918
62762C/50983	3	12	3.34	1.76	13	0.00	0.00	-	+	0.058	12	0.11	0.11	13	0.00	0.00	-	+	0.339	12	3.76	1.28	13	1.06	0.66	-	-	0.032
Habitat Means			6.67	4.10		3.23	1.07		+			0.93	0.60		3.37	1.60		-			2.30	1.07		1.10	0.53		-	
Fisher's		Power	---		Power-50%		---	P-value		0.092	Power	0.011		Power-50%		0.109	P-value		0.430	Power	---		Power-50%		---	P-value		0.081
Stouffer's		Power	---		Power-50%		---	P-value		0.030	Power	0.001		Power-50%		0.140	P-value		0.707	Power	---		Power-50%		---	P-value		0.023

(b) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.76. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Undisturbed. (Continued.)

Site Pair	Mvd	Halosaccion glandiforme (A) N	C	SE	N	O	SE	CV	D	P	Halosaccion spp. (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	11	0.00	0.00	11	0.00	0.00	-	o	1.000	11	0.00	0.00	11	0.00	0.00	-	o	1.000	11	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
62762C/50983	1	14	0.00	0.00	15	0.00	0.00	-	o	1.000	14	0.00	0.00	15	0.00	0.00	-	o	1.000	14	0.09	0.09	15	0.00	0.00	-	+	0.336
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.03	0.03		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.386
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.189
14.1C/14.1	2	12	2.09	1.43	12	0.32	0.23	-	+	0.314	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	3.34	1.66	12	0.00	0.00	-	-	0.050
14.2C/14.2	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
62762C/50983	2	14	5.09	1.85	13	0.00	0.00	-	+	0.006	14	0.00	0.00	13	0.00	0.00	-	o	1.000	14	1.61	0.61	13	0.00	0.00	-	-	0.011
Habitat Means			2.40	1.10		0.10	0.07		+			0.00	0.00		0.00	0.00		o			1.63	0.77		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.010	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.004
Stouffer's		Power	---		Power-50%		---	P-value		0.002	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.002
14.1C/14.1	3	11	2.62	1.53	12	1.78	0.68	-	-	0.989	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	3.76	1.62	12	0.73	0.45	-	+	0.117
14.2C/14.2	3	7	0.54	0.54	11	0.35	0.18	-	-	0.918	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.68	0.49	-	-	0.174
62762C/50983	3	12	3.76	1.18	13	1.06	0.66	-	-	0.032	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	3.24	1.17	13	0.00	0.00	-	+	0.006
Habitat Means			2.30	1.07		1.10	0.53		-			0.00	0.00		0.00	0.00		o			2.33	0.93		0.47	0.33		-	
Fisher's		Power	---		Power-50%		---	P-value		0.081	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.007
Stouffer's		Power	---		Power-50%		---	P-value		0.023	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.005

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Callithamnion pikeanum (A) N	C	SE	N	O	SE	CV	D	P	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Crustose Reds N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	11	0.00	0.00	11	0.00	0.00	-	o	1.000	11	0.00	0.00	11	0.00	0.00	-	o	1.000	11	6.37	3.70	11	5.23	2.20	-	+	0.956
14.2C/14.2	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.42	0.42	11	1.71	1.12	-	-	0.186
62762C/50983	1	14	0.00	0.00	15	0.00	0.00	-	o	1.000	14	0.09	0.09	15	0.00	0.00	-	+	0.336	14	0.18	0.18	15	0.00	0.00	-	+	0.336
Habitat Means			0.00	0.00		0.00	0.00		o			0.03	0.03		0.00	0.00		+			2.33	1.43		2.30	1.10		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.386	Power	0.009		Power-50%	0.177	P-value		0.513
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.189	Power	0.014		Power-50%	0.246	P-value		0.302
14.1C/14.1	2	12	0.22	0.15	12	0.00	0.00	-	+	0.166	12	3.13	1.55	12	0.00	0.00	-	-	0.050	12	7.19	3.40	12	9.80	6.34	-	-	0.791
14.2C/14.2	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	6.68	2.67	-	-	0.013
62762C/50983	2	14	0.00	0.00	13	0.00	0.00	-	o	1.000	14	1.61	0.61	13	0.00	0.00	-	+	0.011	14	0.36	0.24	13	0.00	0.00	-	+	0.165
Habitat Means			0.07	0.07		0.00	0.00		+			1.57	0.73		0.00	0.00		+			2.53	1.20		5.50	3.00		-	
Fisher's		Power	0.007		Power-50%		0.005	P-value		0.257	Power	---		Power-50%		---	P-value		0.004	Power	---		Power-50%		---	P-value		0.061
Stouffer's		Power	0.001		Power-50%		0.001	P-value		0.346	Power	---		Power-50%		---	P-value		0.002	Power	0.038		Power-50%	0.410	P-value		0.688
14.1C/14.1	3	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	3.76	1.62	12	0.73	0.45	-	+	0.117	11	8.53	6.50	12	3.34	1.64	-	+	0.603
14.2C/14.2	3	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.68	0.49	-	-	0.174	7	1.79	1.79	11	7.62	3.66	-	-	0.217
62762C/50983	3	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	3.24	1.17	13	0.00	0.00	-	-	0.006	12	0.42	0.42	13	0.00	0.00	-	-	0.339
Habitat Means			0.00	0.00		0.00	0.00		o			2.33	0.93		0.47	0.33		+			3.57	2.90		3.63	1.77		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.007	Power	0.015		Power-50%	0.176	P-value		0.404 y
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.005	Power	0.022		Power-50%	0.243	P-value		0.251

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.76. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Undisturbed. (Continued.)

		Crustose Coralline Algae (P)								Hildenbrandia sp. (P)								Petrocelis (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	11	0.00	0.00	11	0.00	0.00	-	o	1.000	11	6.37	3.70	11	5.23	2.20	-	+	0.956	11	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.42	0.42	11	1.71	1.12	-	-	0.186	12	0.00	0.00	11	0.00	0.00	-	o	1.000
62762C/50983	1	14	0.00	0.00	15	0.00	0.00	-	o	1.000	14	0.18	0.18	15	0.00	0.00	-	+	0.336	14	0.00	0.00	15	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			2.33	1.43		2.30	1.10		+			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power	0.008		Power-50%		0.202	P-value		0.513	Power	---		Power-50%		---	P-value		0.655
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	0.014		Power-50%		0.275	P-value		0.302	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	12	0.00	0.00	12	0.32	0.32	-	-	0.339	12	7.19	3.40	12	9.49	6.35	-	-	0.829	12	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	2	11	0.00	0.00	12	0.21	0.21	-	-	0.339	11	0.00	0.00	12	5.22	2.64	-	-	0.050	11	0.00	0.00	12	1.25	1.25	-	-	0.339
62762C/50983	2	14	0.00	0.00	13	0.00	0.00	-	o	1.000	14	0.18	0.18	13	0.00	0.00	-	+	0.336	14	0.18	0.18	13	0.00	0.00	-	+	0.336
Habitat Means			0.00	0.00		0.17	0.17		-			2.47	1.20		4.90	3.00		-			0.07	0.07		0.43	0.43		+	
Fisher's	Power		---		Power-50%		---	P-value		0.205	Power	0.053		Power-50%		0.133	P-value		0.148	Power	---		Power-50%		---	P-value		0.502 y
Stouffer's	Power		---		Power-50%		---	P-value		0.293	Power	0.036		Power-50%		0.137	P-value		0.603	Power	---		Power-50%		---	P-value		0.272
14.1C/14.1	3	11	0.00	0.00	12	0.53	0.33	-	-	0.095	11	8.53	6.50	12	2.82	1.68	-	+	0.451	11	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	3	7	1.79	1.79	11	0.00	0.00	-	+	0.356	7	0.00	0.00	11	0.80	0.54	-	-	0.168	7	0.00	0.00	11	6.82	3.77	-	-	0.088
62762C/50983	3	12	0.42	0.42	13	0.00	0.00	-	+	0.339	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	0.00	0.00	13	0.00	0.00	-	o	1.000
Habitat Means			0.73	0.73		0.17	0.10		+			2.83	2.17		1.20	0.73		-			0.00	0.00		2.27	1.27		-	
Fisher's	Power		0.003		Power-50%		---	P-value		0.312x	Power	0.007		Power-50%		0.011	P-value		0.335 y	Power	0.035		Power-50%		---	P-value		0.172
Stouffer's	Power		0.001		Power-50%		---	P-value		0.254	Power	0.011		Power-50%		0.001	P-value		0.429	Power	0.006		Power-50%		---	P-value		0.313

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.77. Algal Percent Cover. Invertebrates. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Actiniidae							Balanomorpha							Polyplacophora						
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	11	0.00	0.00	11	0.00	0.00	-	o	1.000	11	3.07	1.60	11	10.12	4.72	-	-	0.235	11	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	13.23	5.03	11	17.63	7.81	-	-	0.680	12	0.00	0.00	11	0.00	0.00	-	o	1.000
62762C/50983	1	14	0.00	0.00	15	0.00	0.00	-	o	1.000	14	38.49	8.08	15	20.75	4.51	-	-	0.080	14	0.00	0.00	15	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			18.27	4.90		16.17	5.67		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.067		Power-50%		0.769	P-value		0.368xy	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.045		Power-50%		0.828	P-value		0.874	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	9.18	3.84	12	4.79	2.27	-	-	0.334	12	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	16.04	5.70	12	17.20	3.17	-	-	0.595	11	0.00	0.00	12	0.00	0.00	-	o	1.000
62762C/50983	2	14	0.00	0.00	13	0.00	0.00	-	o	1.000	14	7.15	3.01	13	11.55	2.83	-	-	0.097	14	0.00	0.00	13	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			10.80	4.17		11.20	2.77		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.193		Power-50%		0.687	P-value		0.183	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.082	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	4.55	3.33	12	3.03	1.45	-	+	0.808	11	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	3	7	0.71	0.71	11	0.00	0.00	-	+	0.356	7	2.33	2.12	11	10.01	6.35	-	-	0.291	7	0.19	0.19	11	0.00	0.00	-	-	0.356
62762C/50983	3	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	6.26	2.91	13	5.01	1.39	-	+	0.806	12	0.32	0.23	13	0.00	0.00	-	+	0.172
Habitat Means			0.23	0.23		0.00	0.00		+			4.40	2.77		6.00	3.10		+			0.17	0.13		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.399	Power	0.006		Power-50%		0.509	P-value		0.699 y	Power	0.067		Power-50%		0.066	P-value		0.136
Stouffer's		Power	---		Power-50%		---	P-value		0.396	Power	0.004		Power-50%		0.594	P-value		0.532	Power	---		Power-50%		---	P-value		0.065

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Lottiidae							Mytilus													
Site Pair									N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	11	0.00	0.00	11	0.58	0.26	-	-	0.041	11	0.00	0.00	11	1.71	1.71	-	-	0.341	11	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	1	12	0.22	0.15	11	0.12	0.12	-	+	0.610	12	1.57	0.80	11	0.80	0.80	-	+	0.321	12	0.00	0.00	11	0.00	0.00	-	o	1.000
62762C/50983	1	14	0.09	0.09	15	0.00	0.00	-	+	0.336	14	4.02	1.91	15	0.09	0.09	-	+	0.060	14	0.00	0.00	15	0.00	0.00	-	o	1.000
Habitat Means			0.10	0.10		0.23	0.13		+			1.87	0.90		0.87	0.87		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.022		Power-50%		0.081	P-value		0.425xy	Power	---		Power-50%		---	P-value		0.087	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.000		Power-50%		0.085	P-value		0.329	Power	---		Power-50%		---	P-value		0.042	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	12	0.11	0.11	12	0.22	0.15	-	-	0.558	12	0.73	0.73	12	0.00	0.00	-	+	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	2	11	0.00	0.00	12	0.73	0.45	-	-	0.095	11	7.95	4.46	12	0.73	0.62	-	+	0.102	11	0.00	0.00	12	0.00	0.00	-	o	1.000
62762C/50983	2	14	0.36	0.24	13	0.00	0.00	-	-	0.165	14	4.02	2.19	13	3.85	1.93	-	+	0.858	14	0.00	0.00	13	0.00	0.00	-	o	1.000
Habitat Means			0.17	0.10		0.30	0.23		-			4.23	2.47		1.53	0.83		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.150		Power-50%		0.088	P-value		0.184	Power	---		Power-50%		---	P-value		0.082	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.046		Power-50%		0.089	P-value		0.735	Power	0.374		Power-50%		0.538	P-value		0.183	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	11	0.00	0.00	12	0.22	0.15	-	-	0.166	11	0.12	0.12	12	0.00	0.00	-	-	0.341	11	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	3	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.12	0.12	-	-	0.341	7	0.00	0.00	11	0.00	0.00	-	o	1.000
62762C/50983	3	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	0.52	0.36	13	1.15	0.67	-	-	0.545	12	0.00	0.00	13	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.07	0.07		-			0.20	0.17		0.43	0.27		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.007		Power-50%		---	P-value		0.257	Power	0.032		Power-50%		0.056	P-value		0.368	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.001		Power-50%		---	P-value		0.346	Power	0.028		Power-50%		0.099	P-value		0.290	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.77. Algal Percent Cover. Invertebrates. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Undisturbed. (Continued.)

		Littorinidae								Porifera								Cnideria							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	11	0.12	0.12	11	0.00	0.00	-	-	0.341	11	0.00	0.00	11	0.00	0.00	-	o	1.000	11	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	1	12	0.00	0.00	11	0.68	0.49	-	-	0.174	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
62762C/50983	1	14	0.18	0.18	15	0.92	0.67	-	-	0.295	14	0.00	0.00	15	0.00	0.00	-	o	1.000	14	0.00	0.00	15	0.00	0.00	-	o	1.000
Habitat Means			0.10	0.10		0.53	0.40		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.091		Power-50%		---	P-value		0.169	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.080		Power-50%		---	P-value		0.141	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	12	0.43	0.24	12	0.00	0.00	-	+	0.087	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	2	11	0.12	0.12	12	1.57	1.14	-	-	0.149	11	0.12	0.12	12	0.00	0.00	-	+	0.341	11	0.00	0.00	12	0.00	0.00	-	o	1.000
62762C/50983	2	14	0.18	0.18	13	0.19	0.19	-	-	0.959	14	0.00	0.00	13	0.00	0.00	-	o	1.000	14	0.18	0.18	13	0.00	0.00	-	-	0.336
Habitat Means			0.23	0.17		0.60	0.43		-			0.03	0.03		0.00	0.00		+			0.07	0.07		0.00	0.00		+	
Fisher's		Power	0.033		Power-50%		0.255	P-value		0.344x	Power	---		Power-50%		---	P-value		0.389	Power	---		Power-50%		---	P-value		0.386
Stouffer's		Power	0.005		Power-50%		0.345	P-value		0.512	Power	---		Power-50%		---	P-value		0.393	Power	---		Power-50%		---	P-value		0.189
14.1C/14.1	3	11	0.00	0.00	12	0.21	0.21	-	-	0.339	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.57	0.57	12	0.00	0.00	-	+	0.341
14.2C/14.2	3	7	0.00	0.00	11	0.23	0.23	-	-	0.341	7	0.36	0.36	11	0.00	0.00	-	+	0.356	7	0.00	0.00	11	0.00	0.00	-	o	1.000
62762C/50983	3	12	0.00	0.00	13	0.20	0.14	-	-	0.165	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	0.00	0.00	13	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.20	0.17		-			0.13	0.13		0.00	0.00		.			0.20	0.20		0.00	0.00		.	
Fisher's		Power	---		Power-50%		---	P-value		0.060	Power	---		Power-50%		---	P-value		0.399	Power	---		Power-50%		---	P-value		0.389
Stouffer's		Power	--		Power-50%		---	P-value		0.035	Power	---		Power-50%		---	P-value		0.396	Power	---		Power-50%		---	P-value		0.393

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.78. Algal Percent Cover. Substrates. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Rock								Oiled Rock								Mud							
Pa	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	11	27.63	10.97	11	33.88	7.63	-	-	0.559	11	0.00	0.00	11	0.92	0.68	-	-	0.119	11	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	1	12	31.58	10.96	11	61.83	10.85	-	-	0.072	12	0.00	0.00	11	0.35	0.35	-	-	0.341	12	0.00	0.00	11	0.00	0.00	-	o	1.000
62762C/50983	1	14	31.44	8.40	15	66.34	7.02	-	-	0.006	14	0.00	0.00	15	0.00	0.00	-	o	1.000	14	0.00	0.00	15	0.00	0.00	-	o	1.000
Habitat Means			30.20	10.13		54.00	8.50		-			0.00	0.00		0.43	0.37		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.002	Power	0.070		Power-50%		---	P-value		0.102	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.001	Power	0.127		Power-50%		---	P-value		0.237	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	12	5.01	1.94	12	22.61	6.28	-	-	0.009	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	2	11	7.52	2.30	12	45.84	7.21	-	-	0.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
62762C/50983	2	14	30.36	5.71	13	25.68	8.26	-	+	0.529	14	0.00	0.00	13	0.00	0.00	-	o	1.000	14	0.00	0.00	13	0.00	0.00	-	o	1.000
Habitat Means			14.30	3.30		31.37	7.27		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.670		Power-50%		0.858	P-value		0.100	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	11	0.80	0.43	12	5.32	1.76	-	-	0.023	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	3	7	1.61	1.05	11	17.18	7.23	-	-	0.013	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.00	0.00	-	o	1.000
62762C/50983	3	12	19.91	5.46	13	16.94	6.88	-	+	0.611	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	0.00	0.00	13	0.00	0.00	-	o	1.000
Habitat Means			7.43	2.33		13.13	5.30		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.003	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.483		Power-50%		0.916	P-value		0.188	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Sand								Shell Fragments								Filamentous Diatoms							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	11	0.00	0.00	11	0.00	0.00	-	o	1.000	11	0.00	0.00	11	0.12	0.12	-	-	0.341	11	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	4.58	4.58	11	0.00	0.00	-	-	0.339	12	0.00	0.00	11	0.00	0.00	-	o	1.000
62762C/50983	1	14	0.00	0.00	15	0.00	0.00	-	o	1.000	14	0.00	0.00	15	0.00	0.00	-	o	1.000	14	0.00	0.00	15	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			1.53	1.53		0.03	0.03		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.505	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.21	0.21	-	-	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
62762C/50983	2	14	0.00	0.00	13	0.00	0.00	-	o	1.000	14	0.00	0.00	13	0.00	0.00	-	o	1.000	14	0.09	0.09	13	0.00	0.00	-	+	0.336
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.07	0.07		-			0.03	0.03		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.388	Power	---		Power-50%		---	P-value		0.386
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.393	Power	---		Power-50%		---	P-value		0.189
14.1C/14.1	3	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.00	0.00	12	0.00	0.00	-	o	1.000
14.2C/14.2	3	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.00	0.00	-	o	1.000
62762C/50983	3	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	0.00	0.00	13	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.78. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Undisturbed. (Continued.)

		Sand and Mud								Total Substrate															
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	11	0.00	0.00	11	0.12	0.12	-	-	0.341	11	27.63	10.97	11	34.91	8.02	-	-	0.524									
14.2C/14.2	1	12	4.58	4.58	11	0.00	0.00	-	+	0.339	12	36.16	10.71	11	62.16	10.96	-	-	0.112									
62762C/50983	1	14	0.00	0.00	15	0.00	0.00	-	o	1.000	14	31.44	8.40	15	66.34	7.02	-	-	0.006									
Habitat Means			1.53	1.53		0.03	0.03		+			31.73	10.03		54.47	8.67		-										
Fisher's		Power	---		Power-50%		---	P-value		0.505	Power	---		Power-50%		---	P-value		0.003	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		
14.1C/14.1	2	12	0.00	0.00	12	0.21	0.21	-	-	0.339	12	5.01	1.94	12	22.82	6.34	-	-	0.009									
14.2C/14.2	2	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	7.52	2.30	12	45.84	7.21	-	-	0.000									
62762C/50983	2	14	0.00	0.00	13	0.00	0.00	-	o	1.000	14	30.36	5.71	13	25.68	8.26	-	+	0.529									
Habitat Means			0.00	0.00		0.07	0.07		-			14.30	3.30		31.43	7.27		-										
Fisher's		Power	---		Power-50%		---	P-value		0.388	Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.393	Power	0.666		Power-50%		0.826	P-value		0.100	Power	---		Power-50%		---	P-value		
14.1C/14.1	3	11	0.00	0.00	12	0.00	0.00	-	o	1.000	11	0.80	0.43	12	5.32	1.76	-	-	0.023									
14.2C/14.2	3	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	1.61	1.05	11	17.18	7.23	-	-	0.013									
62762C/50983	3	12	0.00	0.00	13	0.00	0.00	-	o	1.000	12	19.91	5.46	13	16.94	6.88	-	-	0.611									
Habitat Means			0.00	0.00		0.00	0.00		o			7.43	2.33		13.13	5.30		-										
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.003	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.481		Power-50%		0.921	P-value		0.188	Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.79. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Sheltered Rocky. June 1994. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Algal Diversity Index (a)								Algal Taxa Richness (b)								Total Algae							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	0.02	0.02	11	0.18	0.07	-	-	0.052	12	0.50	0.19	11	1.64	0.49	-	-	0.051	12	10.21	6.13	11	22.27	8.49	-	-	0.258
14.2C/14.2	1	13	0.20	0.05	11	0.02	0.02	-	+	0.006	13	1.92	0.43	11	0.45	0.21	-	+	0.008	13	43.27	9.23	11	4.55	2.80	-	+	0.001
62762C/50983	1	12	0.12	0.04	12	0.02	0.02	-	+	0.055	12	1.08	0.31	12	0.50	0.19	-	+	0.128	12	9.79	3.96	12	17.50	7.36	-	-	0.678
Habitat Means			0.11	0.04		0.07	0.04		+			1.17	0.31		0.86	0.30		-			21.10	6.43		14.80	6.23		-	
Fisher's		Power	---			Power-50%	---		P-value	0.004x	Power	---			Power-50%	---		P-value	0.011x	Power	0.079			Power-50%	0.770		P-value	0.395xy
Stouffer's		Power	---			Power-50%	---		P-value	0.023	Power	---			Power-50%	---		P-value	0.056	Power	0.003			Power-50%	0.817		P-value	0.583
14.1C/14.1	2	12	0.35	0.06	11	0.35	0.08	-	+	0.987	12	3.58	0.54	11	3.55	0.77	-	-	0.968	12	75.42	8.57	11	72.95	8.51	-	-	0.875
14.2C/14.2	2	14	0.20	0.05	10	0.27	0.08	-	-	0.471	14	2.36	0.43	10	3.10	0.94	-	-	0.435	14	65.00	9.13	10	40.00	10.58	-	+	0.081
62762C/50983	2	12	0.16	0.07	12	0.06	0.03	-	-	0.217	12	2.50	0.82	12	1.08	0.19	-	+	0.118	12	45.62	12.06	12	35.21	10.64	-	+	0.662
Habitat Means			0.24	0.06		0.23	0.07		+			2.81	0.60		2.58	0.63		+			62.00	9.93		49.40	9.90		+	
Fisher's		Power	0.129			Power-50%	0.994		P-value	0.381	Power	0.182			Power-50%	0.952		P-value	0.269	Power	0.186			Power-50%	0.659		P-value	0.113
Stouffer's		Power	0.096			Power-50%	0.998		P-value	0.176	Power	0.143			Power-50%	0.965		P-value	0.112	Power	0.202			Power-50%	0.730		P-value	0.173
14.1C/14.1	3	12	0.59	0.05	10	0.40	0.06	-	+	0.026	12	6.58	0.38	10	4.50	0.62	-	+	0.007	12	92.29	3.25	10	84.25	5.80	-	+	0.260
14.2C/14.2	3	9	0.43	0.09	10	0.63	0.04	-	-	0.037	9	4.33	0.60	10	6.70	0.67	-	-	0.018	9	91.39	4.53	10	76.75	6.94	-	+	0.123
62762C/50983	3	12	0.44	0.07	9	0.24	0.08	-	+	0.070	12	4.42	0.61	9	3.11	0.79	-	+	0.199	12	62.71	7.02	9	65.00	13.19	-	-	0.772
Habitat Means			0.49	0.07		0.43	0.06		+			5.11	0.53		4.77	0.69		+			82.13	4.93		75.37	8.63		-	
Fisher's		Power	---			Power-50%	---		P-value	0.017x	Power	---			Power-50%	---		P-value	0.015x	Power	0.257			Power-50%	1.000		P-value	0.100
Stouffer's		Power	---			Power-50%	---		P-value	0.045	Power	0.253			Power-50%	1.000		P-value	0.103	Power	0.247			Power-50%	1.000		P-value	0.310

(a) Modified Shannon Index.
(b) Taxa richness calculations are explained in the methods.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Invertebrates								Rock								Perennials (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	2.50	1.69	11	2.27	1.80	-	+	0.933	12	87.29	6.56	11	75.45	8.46	-	+	0.287	12	9.79	6.10	11	11.14	5.39	-	-	0.676
14.2C/14.2	1	13	1.73	1.25	11	2.50	0.89	-	-	0.232	13	54.23	9.08	11	90.00	3.44	-	-	0.003	13	19.04	7.71	11	1.59	1.18	-	+	0.022
62762C/50983	1	12	39.17	7.19	12	27.29	6.07	-	+	0.267	12	51.04	8.74	12	55.21	8.44	-	-	0.747	12	8.33	3.62	12	17.29	7.38	-	-	0.587
Habitat Means			14.47	3.40		10.70	2.93		+			64.17	8.13		73.57	6.77		-			12.37	5.80		10.00	4.67		-	
Fisher's		Power	0.066			Power-50%	0.717		P-value	0.446	Power	---			Power-50%	---		P-value	0.017	Power	0.042			Power-50%	0.698		P-value	0.590xy
Stouffer's		Power	0.062			Power-50%	0.777		P-value	0.243	Power	0.391			Power-50%	0.985		P-value	0.200	Power	0.004			Power-50%	0.751		P-value	0.515
14.1C/14.1	2	12	2.92	2.26	11	0.91	0.51	-	+	0.517	12	21.67	8.17	11	26.14	8.37	-	-	0.791	12	71.88	8.45	11	62.95	8.45	-	+	0.616
14.2C/14.2	2	14	2.32	1.49	10	0.75	0.38	-	+	0.676	14	32.68	8.44	10	59.25	10.46	-	-	0.048	14	38.04	8.91	10	29.25	9.17	-	+	0.446
62762C/50983	2	12	16.46	5.40	12	20.63	6.20	-	-	0.651	12	37.92	8.93	12	36.88	8.84	-	+	0.789	12	39.37	11.09	12	34.58	10.75	-	+	0.927
Habitat Means			7.23	3.07		7.43	2.37		+			30.77	8.50		40.77	9.23		-			49.77	9.50		42.30	9.50		+	
Fisher's		Power	0.037			Power-50%	0.754		P-value	0.462 y	Power	0.286			Power-50%	0.677		P-value	0.112	Power	0.113			Power-50%	0.647		P-value	0.331
Stouffer's		Power	0.049			Power-50%	0.824		P-value	0.544	Power	0.282			Power-50%	0.735		P-value	0.346	Power	0.146			Power-50%	0.713		P-value	0.329
14.1C/14.1	3	12	4.79	2.43	10	0.25	0.25	-	+	0.014	12	2.71	1.64	10	15.50	5.80	-	-	0.018	12	69.79	6.58	10	74.25	8.04	-	-	0.510
14.2C/14.2	3	9	3.06	1.60	10	0.50	0.33	-	+	0.141	9	5.56	4.64	10	22.75	6.82	-	-	0.033	9	55.83	11.76	10	44.00	8.62	-	+	0.508
62762C/50983	3	12	11.88	4.35	9	4.17	1.61	-	+	0.162	12	25.42	7.02	9	30.83	12.24	-	-	0.892	12	23.33	4.80	9	47.78	9.41	-	-	0.053
Habitat Means			6.60	2.80		1.67	0.73		+			11.23	4.40		23.03	8.27		-			49.63	7.73		55.37	8.67		-	
Fisher's		Power	---			Power-50%	---		P-value	0.003	Power	---			Power-50%	---		P-value	0.004	Power	0.387			Power-50%	0.729		P-value	0.103
Stouffer's		Power	---			Power-50%	---		P-value	0.008	Power	---			Power-50%	---		P-value	0.080	Power	---			Power-50%	---		P-value	0.039

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.79. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Sheltered Rocky. June 1994. Undisturbed. (Continued.)

		Annuals (A)								Ephemerals (AE)															
		N	C	SE	N	Q	SE	CV	D	P	N	C	SE	N	Q	SE	CV	D	P	N	C	SE	N	Q	SE	CV	D	P
14.2C/14.2	1	13	24.23	7.06	11	2.95	2.71	-	+	0.007	13	2.31	2.11	11	0.00	0.00	-	+	0.230									
62762C/50983	1	12	1.46	1.46	12	0.21	0.21	-	+	0.562	12	0.00	0.00	12	0.00	0.00	-	o	1.000									
Habitat Means			8.70	3.00		4.77	2.77		+			0.90	0.83		0.00	0.00		·										
Fisher's		Power	---		Power-50%		---	P-value		0.032x	Power	0.007		Power-50%		0.002	P-value		0.159	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.022		Power-50%		0.322	P-value		0.232	Power	0.018		Power-50%		0.008	P-value		0.269	Power	---		Power-50%		---	P-value		
14.1C/14.1	2	12	3.54	1.64	11	10.00	4.07	-	-	0.240	12	0.21	0.21	11	0.45	0.30	-	-	0.506									
14.2C/14.2	2	14	26.96	8.66	10	10.75	5.43	-	+	0.137	14	0.18	0.18	10	3.00	1.82	-	-	0.152									
62762C/50983	2	12	6.25	2.67	12	0.63	0.45	-	-	0.069	12	1.46	0.78	12	0.21	0.21	-	+	0.190									
Habitat Means			12.27	4.33		7.13	3.33		+			0.63	0.40		1.23	0.77		-										
Fisher's		Power	---		Power-50%		---	P-value		0.055	Power	0.184		Power-50%		0.297	P-value		0.230	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.040	Power	0.070		Power-50%		0.352	P-value		0.726	Power	---		Power-50%		---	P-value		
14.1C/14.1	3	12	22.50	4.36	10	10.00	4.25	-	+	0.017	12	10.00	2.85	10	1.00	0.76	-	+	0.002									
14.2C/14.2	3	9	35.56	12.18	10	32.75	8.09	-	(	0.729	9	0.28	0.28	10	5.75	2.24	-	-	0.018									
62762C/50983	3	12	39.38	8.07	9	17.22	6.99	-	+	0.027	12	3.54	1.13	9	4.44	1.99	-	-	0.994									
Habitat Means			32.50	8.23		20.00	6.47		+			4.60	1.43		3.73	1.67		-										
Fisher's		Power	---		Power-50%		---	P-value		0.003	Power	---		Power-50%		---	P-value		0.093xy	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.003	Power	0.011		Power-50%		0.668	P-value		0.582	Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.80. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1994. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group: Bladed Greens								Bladed Greens (AE) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	1	13	2.31	2.11	11	0.00	0.00	-	+	0.230	13	0.00	0.00	11	0.00	0.00	-	o	1.000	13	0.00	0.00	11	0.00	0.00	-	o	1.000
62762C/50983	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.77	0.70		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		0.001	P-value		0.312	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.000		Power-50%		0.001	P-value		0.366	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	12	0.21	0.21	11	0.45	0.30	-	-	0.506	12	0.21	0.21	11	0.45	0.30	-	-	0.506	12	0.21	0.21	11	0.45	0.30	-	-	0.506
14.2C/14.2	2	14	0.18	0.18	10	3.25	2.01	-	-	0.153	14	0.18	0.18	10	1.75	1.49	-	-	0.323	14	0.18	0.18	10	1.75	1.49	-	-	0.323
62762C/50983	2	12	1.46	0.78	12	0.00	0.00	-	+	0.084	12	1.25	0.65	12	0.00	0.00	-	+	0.082	12	1.25	0.65	12	0.00	0.00	-	+	0.082
Habitat Means			0.63	0.40		1.27	0.77		-			0.57	0.37		0.77	0.60		-			0.57	0.37		0.77	0.60		-	
Fisher's		Power	0.157		Power-50%		0.293	P-value		0.240x	Power	0.039		Power-50%		0.336	P-value		0.372x	Power	0.039		Power-50%		0.335	P-value		0.372x
Stouffer's		Power	0.022		Power-50%		0.369	P-value		0.838	Power	0.008		Power-50%		0.386	P-value		0.869	Power	0.007		Power-50%		0.376	P-value		0.869
14.1C/14.1	3	12	10.42	2.95	10	3.75	1.46	-	+	0.091	12	9.38	2.77	10	1.00	0.76	-	+	0.005	12	9.38	2.77	10	1.00	0.76	-	+	0.005
14.2C/14.2	3	9	0.56	0.56	10	6.75	3.05	-	-	*0.050*	*9*	*0.28*	*0.28*	*10*	*2.50*	*1.12*	-	-	*0.103*	*9*	*0.28*	*0.28*	*10*	*2.50*	*1.12*	-	-	*0.103*
62762C/50983	3	12	3.96	1.17	9	3.61	1.87	-	+	0.564	12	2.50	0.87	9	3.61	1.87	-	-	0.989	12	2.50	0.87	9	3.61	1.87	-	-	0.989
Habitat Means			5.00	1.60		4.73	2.17		+			4.07	1.33		2.37	1.27		-			4.07	1.33		2.37	1.27		-	
Fisher's		Power	0.237		Power-50%		0.696	P-value		0.187x	Power	0.133		Power-50%		0.708	P-value		0.291xy	Power	0.130		Power-50%		0.681	P-value		0.291xy
Stouffer's		Power	0.037		Power-50%		0.718	P-value		0.326	Power	0.002		Power-50%		0.737	P-value		0.630	Power	0.000		Power-50%		0.710	P-value		0.630

(a) Ramenskia, Monostroma, Ulva and Ulvaria.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: *Fine Filamentous Greens*								*Acrosiphonia sp. (A)*								*Chaetomorpha/Rhizoclonium (A) (a)*							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	1	13	2.12	2.12	11	0.00	0.00	-	+	0.337	13	0.00	0.00	11	0.00	0.00	-	o	1.000	13	0.00	0.00	11	0.00	0.00	-	o	1.000
62762C/50983	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.70	0.70		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.387	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.392	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	2	14	0.00	0.00	10	0.25	0.25	-	-	0.343	14	0.00	0.00	10	0.25	0.25	-	-	0.343	14	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	2	12	0.21	0.21	12	0.00	0.00	-	+	0.339	12	0.21	0.21	12	0.00	0.00	-	+	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.07	0.07		0.10	0.10		+			0.07	0.07		0.10	0.10		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.504 y	Power	---		Power-50%		---	P-value		0.504 y	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.273	Power	---		Power-50%		---	P-value		0.273	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	12	0.63	0.33	10	2.75	1.46	-	-	0.298	12	0.63	0.33	10	2.75	1.46	-	-	0.298	12	0.00	0.00	10	0.00	0.00	-	o	1.000
14.2C/14.2	3	9	0.28	0.28	10	1.50	1.00	-	-	0.386	9	0.28	0.28	10	1.50	1.00	-	-	0.386	9	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	3	12	0.63	0.45	9	0.00	0.00	-	-	0.173	12	0.63	0.45	9	0.00	0.00	-	-	0.173	12	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			0.50	0.37		1.43	0.83		-			0.50	0.37		1.43	0.83		-			0.00	0.00		0.00	0.00		o	
Fisher's		*Power*	*0.208*		*Power-50%*		*0.421*	*P-value*		*0.296*	*Power*	0.214		Power-50%		0.421	P-value		0.296	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.071		Power-50%		0.513	P-value		0.759	Power	0.071		Power-50%		0.538	P-value		0.759	Power	---		Power-50%		---	P-value		0.500

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.80. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1994. Undisturbed. (Continued.)

		Cladophora sp. (AE)								Ulothrix sp. (AE)								Urospora sp. (AE)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	1	13	0.00	0.00	11	0.00	0.00	-	o	1.000	13	2.12	2.12	11	0.00	0.00	-	-	0.337	13	0.00	0.00	11	0.00	0.00	-	o	1.000
62762C/50983	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.70	0.70		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.387	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.392	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	2	14	0.00	0.00	10	0.00	0.00	-	o	1.000	14	0.00	0.00	10	0.00	0.00	-	o	1.000	14	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
14.2C/14.2	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	3	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Tubular and Saccate Greens								Blidingia/Enteromorpha (AE) (a)															
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000									
14.2C/14.2	1	13	0.19	0.19	11	0.00	0.00	-	+	0.337	13	0.19	0.19	11	0.00	0.00	-	+	0.337									
62762C/50983	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000									
Habitat Means			0.07	0.07		0.00	0.00		+			0.07	0.07		0.00	0.00		+										
Fisher's		Power	---		Power-50%		---	P-value		0.387	Power	---		Power-50%		---	P-value		0.387	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.392	Power	---		Power-50%		---	P-value		0.392	Power	---		Power-50%		---	P-value		
14.1C/14.1	2	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000									
14.2C/14.2	2	14	0.00	0.00	10	1.25	1.25	-	-	0.343	14	0.00	0.00	10	1.25	1.25	-	-	0.343									
62762C/50983	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.43	0.43		-			0.00	0.00		0.43	0.43		-										
Fisher's		Power	---		Power-50%		---	P-value		0.391	Power	---		Power-50%		---	P-value		0.391	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.394	Power	---		Power-50%		---	P-value		0.394	Power	---		Power-50%		---	P-value		
14.1C/14.1	3	12	0.42	0.42	10	0.00	0.00	-	+	0.339	12	0.42	0.42	10	0.00	0.00	-	+	0.339									
14.2C/14.2	3	9	0.00	0.00	10	2.75	1.60	-	-	0.092	9	0.00	0.00	10	2.75	1.60	-	-	0.092									
62762C/50983	3	12	0.83	0.83	9	0.00	0.00	-	+	0.339	12	0.83	0.83	9	0.00	0.00	-	+	0.339									
Habitat Means			0.40	0.40		0.93	0.53		+			0.40	0.40		0.93	0.53		+										
Fisher's		Power	0.003		Power-50%		---	P-value		0.303xy	Power	0.003		Power-50%		---	P-value		0.303xy	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.001		Power-50%		---	P-value		0.252	Power	0.002		Power-50%		---	P-value		0.252	Power	---		Power-50%		---	P-value		

(a) Genera not separated.

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.81. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1994. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; - = control > oiled; + = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group: Bladed Browns								Alaria sp. (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	9.79	6.10	11	4.55	2.43	-	+	0.548	12	9.79	6.10	11	4.55	2.43	-	-	0.548	12	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	1	13	14.23	7.88	11	0.23	0.23	-	+	0.112	13	14.23	7.88	11	0.23	0.23	-	-	0.112	13	0.00	0.00	11	0.00	0.00	-	o	1.000
62762C/50983	1	12	4.58	1.65	12	17.29	7.38	-	-	0.285	12	4.58	1.65	12	17.29	7.38	-	-	0.285	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			9.53	5.23		7.37	3.33		+			9.53	5.23		7.37	3.33		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.091		Power-50%		0.787	P-value		0.194	Power	0.080		Power-50%		0.807	P-value		0.194	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.048		Power-50%		0.852	P-value		0.638	Power	0.046		Power-50%		0.855	P-value		0.638	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	12	43.96	8.24	11	42.27	10.38	-	+	0.984	12	43.96	8.24	11	42.27	10.38	-	+	0.984	12	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	2	14	30.36	8.12	10	24.00	8.75	-	+	0.565	14	30.36	8.12	10	24.00	8.75	-	+	0.565	14	0.00	0.00	10	0.25	0.25	-	-	0.343
62762C/50983	2	12	35.83	11.22	12	34.38	10.81	-	+	0.914	12	35.63	11.19	12	34.17	10.84	-	+	0.917	12	0.42	0.42	12	0.00	0.00	-	-	0.339
Habitat Means			36.73	9.17		33.57	10.00		+			36.67	9.17		33.50	10.00		+			0.13	0.13		0.10	0.10		-	
Fisher's		Power	0.057		Power-50%		0.535	P-value		0.480	Power	0.060		Power-50%		0.536	P-value		0.481	Power	---		Power-50%		---	P-value		0.504
Stouffer's		Power	0.073		Power-50%		0.615	P-value		0.394	Power	0.081		Power-50%		0.614	P-value		0.396	Power	---		Power-50%		---	P-value		0.273
14.1C/14.1	3	12	47.08	6.86	10	49.50	10.25	-	-	0.888	12	46.88	6.88	10	49.50	10.25	-	-	0.877	12	1.04	0.72	10	0.25	0.25	-	-	0.459
14.2C/14.2	3	9	34.17	11.64	10	14.75	3.64	-	+	0.202	9	34.17	11.64	10	13.00	3.61	-	+	0.116	9	18.06	10.19	10	2.25	1.51	-	+	0.081
62762C/50983	3	12	36.46	7.57	9	44.72	8.08	-	-	0.582	12	36.25	7.58	9	43.89	8.05	-	-	0.610	12	23.96	8.98	9	0.00	0.00	-	-	0.009
Habitat Means			39.27	8.70		36.33	7.33		-			39.13	8.70		35.47	7.33		-			14.37	6.63		0.87	0.60		-	
Fisher's		Power	0.054		Power-50%		0.742	P-value		0.635 y	Power	0.048		Power-50%		0.760	P-value		0.657 y	Power	---		Power-50%		---	P-value		0.003
Stouffer's		Power	0.022		Power-50%		0.807	P-value		0.429	Power	0.012		Power-50%		0.803	P-value		0.475	Power	---		Power-50%		---	P-value		0.001

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Fucus gardneri (P)								Adult Fucus gardneri (P) (> 2cm)								Juvenile Fucus gardneri (P) (<= 2cm)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	9.79	6.10	11	4.55	2.43	-	-	0.548	12	9.58	6.12	11	4.55	2.43	-	+	0.582	12	0.21	0.21	11	0.00	0.00	-	+	0.339
14.2C/14.2	1	13	14.23	7.88	11	0.23	0.23	-	+	0.112	13	14.23	7.88	11	0.23	0.23	-	+	0.112	13	0.00	0.00	11	0.00	0.00	-	o	1.000
62762C/50983	1	12	4.58	1.65	12	17.29	7.38	-	-	0.285	12	3.13	1.72	12	17.29	7.38	-	-	0.128	12	1.46	0.78	12	0.00	0.00	-	+	0.084
Habitat Means			9.53	5.23		7.37	3.33		-			8.97	5.23		7.37	3.33		+			0.57	0.33		0.00	0.00		+	
Fisher's		Power	0.080		Power-50%		0.829	P-value		0.194	Power	0.055		Power-50%		0.750	P-value		0.213	Power	---		Power-50%		---	P-value		0.080
Stouffer's		Power	0.051		Power-50%		0.871	P-value		0.638	Power	0.027		Power-50%		0.835	P-value		0.783	Power	---		Power-50%		---	P-value		0.032
14.1C/14.1	2	12	43.96	8.24	11	42.27	10.38	-	+	0.984	12	43.96	8.24	11	42.27	10.38	-	-	0.984	12	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	2	14	30.36	8.12	10	23.75	8.71	-	+	0.554	14	30.36	8.12	10	23.75	8.71	-	-	0.554	14	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	2	12	35.21	11.10	12	34.17	10.84	-	+	0.901	12	35.21	11.10	12	34.17	10.84	-	-	0.901	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			36.53	9.13		33.43	9.97		+			36.53	9.13		33.43	9.97		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.065		Power-50%		0.521	P-value		0.472	Power	0.066		Power-50%		0.531	P-value		0.472	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.082		Power-50%		0.608	P-value		0.387	Power	0.083		Power-50%		0.597	P-value		0.387	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	12	45.83	6.73	10	49.25	10.23	-	-	0.836	12	45.83	6.73	10	49.25	10.23	-	-	0.836	12	0.00	0.00	10	0.00	0.00	-	o	1.000
14.2C/14.2	3	9	16.11	9.91	10	10.75	3.86	-	+	0.964	9	16.11	9.91	10	10.75	3.86	-	+	0.964	9	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	3	12	12.29	4.28	9	43.89	8.05	-	-	0.004	12	12.29	4.28	9	43.89	8.05	-	-	0.004	12	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			24.73	6.97		34.67	7.40		-			24.73	6.97		34.67	7.40		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.016	Power	---		Power-50%		---	P-value		0.016	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.004	Power	---		Power-50%		---	P-value		0.004	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.81. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1994. Undisturbed. (Continued.)

Site Pair	Mvd	Fucus Stipes (P) (a) N	C	SE	N	O	SE	CV	D	P	Petalonia/Punctaria (AE) (b) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Coarse Filamentous Browns N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	1	13	0.00	0.00	11	0.00	0.00	-	o	1.000	13	0.00	0.00	11	0.00	0.00	-	o	1.000	13	0.00	0.00	11	0.00	0.00	-	o	1.000
62762C/50983	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	2	14	0.00	0.00	10	0.00	0.00	-	o	1.000	14	0.00	0.00	10	0.00	0.00	-	o	1.000	14	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
14.2C/14.2	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.25	0.25	-	-	0.343
62762C/50983	3	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.10	0.10		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.391
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.394

(a) Sexual fronds plants or stipes without blades.
(b) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Analipus japonicus (P) N	C	SE	N	O	SE	CV	D	P	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	1	13	0.00	0.00	11	0.00	0.00	-	o	1.000	13	0.00	0.00	11	0.00	0.00	-	o	1.000	13	0.00	0.00	11	0.00	0.00	-	o	1.000
62762C/50983	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	2	14	0.00	0.00	10	0.00	0.00	-	o	1.000	14	0.00	0.00	10	0.00	0.00	-	o	1.000	14	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.21	0.21	12	0.21	0.21	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.07	0.07		0.07	0.07		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.21	0.21	10	0.00	0.00	-	-	0.339
14.2C/14.2	3	9	0.00	0.00	10	0.25	0.25	-	-	0.343	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.25	0.25	-	-	0.343
62762C/50983	3	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	0.21	0.21	9	0.83	0.59	-	-	0.324
Habitat Means			0.00	0.00		0.10	0.10		-			0.00	0.00		0.00	0.00		o			0.13	0.13		0.37	0.30		-	
Fisher's		Power	---		Power-50%		---	P-value		0.391	Power	---		Power-50%		---	P-value		0.655	Power	0.040		Power-50%		---	P-value		0.274
Stouffer's		Power	---		Power-50%		---	P-value		0.394	Power	---		Power-50%		---	P-value		0.500	Power	0.034		Power-50%		---	P-value		0.184

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.81. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1994. Undisturbed. (Continued.)

		Fine Filamentous Browns (AE) (b)								Morphological Group: Saccate Browns								*Leathesia/Colpomenia (A) (a)*							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
14.1C/14.1	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	1	13	0.00	0.00	11	0.00	0.00	-	o	1.000	13	0.00	0.00	11	0.00	0.00	-	o	1.000	13	0.00	0.00	11	0.00	0.00	-	o	1.000
62762C/50983	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.655
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500
14.1C/14.1	2	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	2	14	0.00	0.00	10	0.00	0.00	-	o	1.000	14	0.00	0.00	10	0.00	0.00	-	o	1.000	14	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	2	12	0.21	0.21	12	0.21	0.21	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.07	0.07		0.07	0.07		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.655
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500
14.1C/14.1	3	12	0.21	0.21	10	0.00	0.00	-	+	0.339	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
14.2C/14.2	3	9	0.00	0.00	10	0.25	0.25	-	-	0.343	9	0.00	0.00	10	1.25	1.00	-	-	0.194	9	0.00	0.00	10	1.25	1.00	-	-	0.194
62762C/50983	3	12	0.21	0.21	9	0.83	0.59	-	-	0.324	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			0.13	0.13		0.37	0.30		-			0.00	0.00		0.43	0.33		-			0.00	0.00		0.43	0.33		-	
Fisher's		Power	0.039		Power-50%	---	P-value			0.274	Power	0.001		Power-50%	---	P-value			0.282	Power	0.001		Power-50%	---	P-value			0.282
Stouffer's		Power	0.036		Power-50%	---	P-value			0.184	Power	0.000		Power-50%	---	P-value			0.356	Power	0.000		Power-50%	---	P-value			0.356

(b) Blachista, Ectocarpus and Pilayella.

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Soranthera ulvoidea (A)								Morphological Group: Crustose Browns								*Ralfsia/Petroderma (P) (a)*							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
14.1C/14.1	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	1	13	0.00	0.00	11	0.00	0.00	-	o	1.000	13	0.00	0.00	11	0.00	0.00	-	o	1.000	13	0.00	0.00	11	0.00	0.00	-	o	1.000
62762C/50983	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.655
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500
14.1C/14.1	2	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	2	14	0.00	0.00	10	0.00	0.00	-	o	1.000	14	0.00	0.00	10	0.00	0.00	-	o	1.000	14	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.655
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500
14.1C/14.1	3	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
14.2C/14.2	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	3	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.655
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.82. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1994. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group: Bladed Reds								Bangia sp. (AE)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	0.42	0.42	11	17.73	6.71	-	-	0.014	12	0.42	0.42	11	0.68	0.49	-	-	0.598	12	0.42	0.42	11	0.00	0.00	-	+	0.339
14.2C/14.2	1	13	26.73	6.99	11	4.32	2.74	-	+	0.011	13	18.46	5.56	11	0.00	0.00	-	+	0.001	13	0.00	0.00	11	0.00	0.00	-	o	1.000
62762C/50983	1	12	5.21	2.55	12	0.21	0.21	-	+	0.035	12	1.87	1.45	12	0.00	0.00	-	+	0.128	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			10.77	3.33		7.40	3.20		+			6.93	2.50		0.23	0.17		+			0.13	0.13		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.005x	Power	---		Power-50%		---	P-value		0.002	Power	---		Power-50%		---	P-value		0.388
Stouffer's		Power	---		Power-50%		---	P-value		0.025	Power	---		Power-50%		---	P-value		0.016	Power	---		Power-50%		---	P-value		0.393
14.1C/14.1	2	12	31.25	7.58	11	30.23	9.44	-	+	0.856	12	7.71	2.62	11	11.14	5.16	-	-	0.785	12	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	2	14	34.46	8.62	10	12.75	4.11	-	+	0.088	14	28.93	8.71	10	3.00	1.38	-	+	0.007	14	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	2	12	8.33	3.71	12	0.83	0.56	-	+	0.078	12	2.92	1.87	12	0.00	0.00	-	+	0.067	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			24.70	6.63		14.60	4.70		+			13.17	4.40		4.70	2.20		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.025	Power	---		Power-50%		---	P-value		0.004	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.016	Power	---		Power-50%		---	P-value		0.009	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	12	34.79	4.57	10	31.00	6.91	-	+	0.515	12	8.96	2.84	10	14.25	5.52	-	-	0.468	12	0.00	0.00	10	0.00	0.00	-	o	1.000
14.2C/14.2	3	9	56.67	12.49	10	55.25	8.29	-	+	0.888	9	30.56	9.26	10	30.00	6.07	-	+	0.947	9	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	3	12	22.29	4.77	9	16.67	5.94	-	+	0.214	12	3.54	1.32	9	14.17	5.91	-	-	0.158	12	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			37.93	6.97		34.33	7.03		+			14.37	4.47		19.50	5.83		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.085		Power-50%		0.934	P-value		0.185	Power	0.326		Power-50%		0.766	P-value		0.159	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.086	Power	---		Power-50%		---	P-value		0.069	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Gigartinaceae Group (P) (a)								Palmaria spp. (A)								Phycodrys riggii (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	0.00	0.00	11	0.68	0.49	-	-	0.174	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	1	13	0.19	0.19	11	0.00	0.00	-	+	0.337	13	0.00	0.00	11	0.00	0.00	-	o	1.000	13	0.00	0.00	11	0.00	0.00	-	o	1.000
62762C/50983	1	12	0.42	0.28	12	0.00	0.00	-	+	0.166	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.20	0.17		0.23	0.17		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.043		Power-50%		0.065	P-value		0.190 y	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.021		Power-50%		0.076	P-value		0.124	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	12	7.08	2.53	11	6.59	2.39	-	+	0.869	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	2	14	3.57	3.20	10	2.50	1.18	-	+	0.752	14	0.00	0.00	10	0.00	0.00	-	o	1.000	14	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	2	12	0.63	0.63	12	0.00	0.00	-	+	0.339	12	1.67	1.24	12	0.00	0.00	-	-	0.121	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			3.77	2.10		3.03	1.20		+			0.57	0.40		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.023		Power-50%		0.300	P-value		0.305	Power	0.003		Power-50%		0.005	P-value		0.221	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.040		Power-50%		0.395	P-value		0.156	Power	---		Power-50%		---	P-value		0.078	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	12	3.75	1.70	10	8.75	4.33	-	-	0.387	12	0.63	0.33	10	0.00	0.00	-	+	0.082	12	0.00	0.00	10	0.75	0.38	-	-	0.081
14.2C/14.2	3	9	16.39	4.75	10	19.75	6.75	-	-	0.893	9	10.83	10.52	10	5.25	3.17	-	+	0.795	9	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	3	12	0.63	0.33	9	3.06	1.30	-	-	0.118	12	2.29	1.29	9	11.11	5.50	-	-	0.136	12	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			6.93	2.27		10.57	4.13		-			4.57	4.03		5.47	2.90		+			0.00	0.00		0.27	0.13		-	
Fisher's		Power	0.472		Power-50%		0.851	P-value		0.103	Power	0.022		Power-50%		0.408	P-value		0.212 y	Power	0.049		Power-50%		---	P-value		0.164
Stouffer's		Power	---		Power-50%		---	P-value		0.043	Power	0.027		Power-50%		0.609	P-value		0.787	Power	0.011		Power-50%		---	P-value		0.309

(a) Chondrus, Iridaea, Mastocarpus and Rhodoglossum.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.82. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1994. Undisturbed. (Continued.)

		Porphyra sp. (A)								Tokidadendron kurilensis (A)								Morphological Group: Coarse Filamentous Reds							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
14.1C/14.1	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	12.50	5.52	-	-	0.020
14.2C/14.2	1	13	18.27	5.51	11	0.00	0.00	-	+	0.001	13	0.00	0.00	11	0.00	0.00	-	o	1.000	13	6.35	2.36	11	4.32	2.74	-	(	0.430
62762C/50983	1	12	1.46	1.46	12	0.00	0.00	-	+	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	3.33	2.14	12	0.00	0.00	-	+	0.073
Habitat Means			6.60	2.33		0.00	0.00		+			0.00	0.00		0.00	0.00		o			3.23	1.50		5.60	2.73		+	
Fisher's		Power	---			Power-50%	---		P-value	0.003	Power	---			Power-50%	---		P-value	0.655	Power	0.159			Power-50%	0.468		P-value	0.137xy
Stouffer's		Power	---			Power-50%	---		P-value	0.037	Power	---			Power-50%	---		P-value	0.500	Power	0.008			Power-50%	0.591		P-value	0.115
14.1C/14.1	2	12	0.42	0.42	11	4.55	3.83	-	-	0.260	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	17.29	6.49	11	8.64	2.77	-	+	0.270
14.2C/14.2	2	14	25.36	8.88	10	0.50	0.50	-	+	0.005	14	0.00	0.00	10	0.00	0.00	-	o	1.000	14	4.29	2.15	10	5.25	2.46	-	-	0.524
62762C/50983	2	12	0.63	0.45	12	0.00	0.00	-	+	0.173	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	3.54	2.07	12	0.42	0.42	-	(	0.145
Habitat Means			8.80	3.27		1.70	1.43		+			0.00	0.00		0.00	0.00		o			8.37	3.60		4.77	1.90		+	
Fisher's		Power	---			Power-50%	---		P-value	0.009	Power	---			Power-50%	---		P-value	0.655	Power	0.269			Power-50%	0.894		P-value	0.131
Stouffer's		Power	---			Power-50%	---		P-value	0.042	Power	---			Power-50%	---		P-value	0.500	Power	---			Power-50%	---		P-value	0.071
14.1C/14.1	3	12	4.58	2.78	10	4.50	3.09	-	+	0.967	12	0.00	0.00	10	0.25	0.25	-	-	0.343	12	12.71	2.12	10	6.50	2.94	-	(	0.042
14.2C/14.2	3	9	2.50	1.95	10	4.25	1.94	-	-	0.374	9	0.83	0.83	10	0.75	0.53	-	+	0.852	9	21.11	8.84	10	8.75	4.52	-	+	0.337
62762C/50983	3	12	0.63	0.45	9	0.00	0.00	-	-	0.173	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	10.42	2.68	9	0.83	0.83	-	+	0.001
Habitat Means			2.57	1.77		2.93	1.67		-			0.27	0.27		0.37	0.27		-			14.73	4.53		5.37	2.73		+	
Fisher's		Power	0.034			Power-50%	0.636		P-value	0.343 y	Power	0.026			Power-50%	---		P-value	0.421	Power	---			Power-50%	---		P-value	0.000
Stouffer's		Power	0.056			Power-50%	0.722		P-value	0.157	Power	0.049			Power-50%	---		P-value	0.414	Power	---			Power-50%	---		P-value	0.000

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Articulate Coralline Algae (A)								Cryptosiphonia woodii (A)								Endocladia muricata (P)							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
14.1C/14.1	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	1.36	0.91	-	-	0.105
14.2C/14.2	1	13	0.00	0.00	11	0.00	0.00	-	o	1.000	13	0.00	0.00	11	0.00	0.00	-	o	1.000	13	2.69	1.25	11	1.36	0.97	-	+	0.450
62762C/50983	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	3.33	2.14	12	0.00	0.00	-	+	0.073
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			2.00	1.13		0.93	0.63		+	
Fisher's		Power	---			Power-50%	---		P-value	0.655	Power	---			Power-50%	---		P-value	0.655	Power	0.198			Power-50%	0.593		P-value	0.137
Stouffer's		Power	---			Power-50%	---		P-value	0.500	Power	---			Power-50%	---		P-value	0.500	Power	---			Power-50%	---		P-value	0.082
14.1C/14.1	2	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.21	0.21	11	0.23	0.23	-	-	0.952	12	1.46	0.84	11	1.14	0.91	-	+	0.730
14.2C/14.2	2	14	0.00	0.00	10	0.00	0.00	-	o	1.000	14	0.00	0.00	10	0.25	0.25	-	-	0.343	14	2.86	1.63	10	0.25	0.25	-	+	0.091
62762C/50983	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.07	0.07		0.17	0.17		-			1.47	0.80		0.47	0.40		+	
Fisher's		Power	---			Power-50%	---		P-value	0.655	Power	---			Power-50%	---		P-value	0.380	Power	0.157			Power-50%	0.548		P-value	0.144
Stouffer's		Power	---			Power-50%	---		P-value	0.500	Power	---			Power-50%	---		P-value	0.387	Power	0.190			Power-50%	0.649		P-value	0.281
14.1C/14.1	3	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	2.29	1.00	10	0.25	0.25	-	-	0.099	12	0.00	0.00	10	0.00	0.00	-	o	1.000
14.2C/14.2	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.28	0.28	10	2.75	1.46	-	-	0.122	9	0.00	0.00	10	0.50	0.50	-	-	0.343
62762C/50983	3	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.87	0.43		1.03	0.60		-			0.00	0.00		0.17	0.17		-	
Fisher's		Power	---			Power-50%	---		P-value	0.655	Power	0.019			Power-50%	0.423		P-value	0.275 y	Power	---			Power-50%	---		P-value	0.391
Stouffer's		Power	---			Power-50%	---		P-value	0.500	Power	0.003			Power-50%	0.421		P-value	0.488	Power	---			Power-50%	---		P-value	0.394

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.82. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1994. Undisturbed. (Continued.)

Site Pair	Mvd	Gloiopeltis furcata (A) N	C	SE	N	O	SE	CV	D	P	Microcladia borealis (A) N	C	SE	N	O	SE	CV	D	P	Neorhodomela/Rhodomela (P) (a) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	0.00	0.00	11	11.14	5.37	-	-	0.033	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	1	13	3.65	1.91	11	2.95	2.71	-	+	0.607	13	0.00	0.00	11	0.00	0.00	-	o	1.000	13	0.00	0.00	11	0.00	0.00	-	o	1.000
62762C/50983	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			1.23	0.63		4.70	2.70		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.054		Power-50%		0.040	P-value		0.112	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.056		Power-50%		0.002	P-value		0.322	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	12	0.42	0.42	11	4.32	2.31	-	-	0.109	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	4.17	2.56	11	0.23	0.23	-	+	0.124
14.2C/14.2	2	14	0.36	0.36	10	4.00	2.45	-	-	0.075	14	0.00	0.00	10	0.00	0.00	-	o	1.000	14	1.07	1.07	10	0.00	0.00	-	-	0.336
62762C/50983	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	1.67	1.67	12	0.00	0.00	-	-	0.339
Habitat Means			0.27	0.27		2.77	1.60		-			0.00	0.00		0.00	0.00		o			2.33	1.80		0.07	0.07		.	
Fisher's		Power	---		Power-50%		---	P-value		0.032	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.048
Stouffer's		Power	0.614		Power-50%		---	P-value		0.167	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.056
14.1C/14.1	3	12	0.00	0.00	10	0.25	0.25	-	-	0.343	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
14.2C/14.2	3	9	0.00	0.00	10	0.25	0.25	-	-	0.343	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	4.17	4.17	10	0.25	0.25	-	-	0.464
62762C/50983	3	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.20	0.20		-			0.00	0.00		0.00	0.00		o			1.40	1.40		0.10	0.10		.	
Fisher's		Power	---		Power-50%		---	P-value		0.208	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.458
Stouffer's		Power	---		Power-50%		---	P-value		0.295	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.417

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Odonthalia floccosa (P) N	C	SE	N	O	SE	CV	D	P	Ptilota/Neoptilota (b) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Saccate Reds N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	1	13	0.00	0.00	11	0.00	0.00	-	o	1.000	13	0.00	0.00	11	0.00	0.00	-	o	1.000	13	0.00	0.00	11	0.00	0.00	-	o	1.000
62762C/50983	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	12	11.04	6.55	11	2.73	1.73	-	+	0.203	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	1.67	1.67	11	0.00	0.00	-	+	0.339
14.2C/14.2	2	14	0.00	0.00	10	0.75	0.75	-	-	0.343	14	0.00	0.00	10	0.00	0.00	-	o	1.000	14	0.00	0.00	10	0.50	0.33	-	-	0.168
62762C/50983	2	12	1.87	1.45	12	0.42	0.42	-	+	0.314	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.63	0.45	12	0.00	0.00	-	+	0.173
Habitat Means			4.30	2.70		1.30	0.97		+			0.00	0.00		0.00	0.00		o			0.77	0.73		0.17	0.10		-	
Fisher's		Power	0.128		Power-50%		0.287	P-value		0.194	Power	---		Power-50%		---	P-value		0.655	Power	0.050		Power-50%		0.032	P-value		0.196
Stouffer's		Power	0.094		Power-50%		0.364	P-value		0.155	Power	---		Power-50%		---	P-value		0.500	Power	0.019		Power-50%		0.058	P-value		0.130
14.1C/14.1	3	12	10.42	2.40	10	1.00	0.67	-	+	0.000	12	0.00	0.00	10	5.00	2.61	-	-	0.053	12	2.92	1.01	10	0.00	0.00	-	-	0.002
14.2C/14.2	3	9	3.06	1.60	10	1.25	0.77	-	+	0.485	9	13.61	7.00	10	3.50	3.50	-	+	0.169	9	1.94	1.43	10	1.50	1.07	-	-	0.858
62762C/50983	3	12	10.42	2.68	9	0.83	0.83	-	+	0.001	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	3.54	2.25	9	1.67	0.93	-	-	0.582
Habitat Means			7.97	2.23		1.03	0.77		-			4.53	2.33		2.83	2.03		-			2.77	1.57		1.07	0.67		-	
Fisher's		Power	---		Power-50%		---	P-value		0.000	Power	0.016		Power-50%		0.011	P-value		0.183 y	Power	---		Power-50%		---	P-value		0.006
Stouffer's		Power	---		Power-50%		---	P-value		0.000	Power	0.015		Power-50%		0.001	P-value		0.436	Power	---		Power-50%		---	P-value		0.075

(b) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.82. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1994. Undisturbed. (Continued.)

Site Pair	Mvd	*Halosaccion glandiforme (A)* N	C	SE	N	O	SE	CV	D	P	*Halosaccion spp. (A)* N	C	SE	N	O	SE	CV	D	P	*Morphological Group: Fine Filamentous Reds* N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	1	13	0.00	0.00	11	0.00	0.00	-	o	1.000	13	0.00	0.00	11	0.00	0.00	-	o	1.000	13	0.00	0.00	11	0.00	0.00	-	o	1.000
62762C/50983	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.21	0.21	-	-	0.339
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.07	0.07		-	
Fisher's		Power ---			Power-50%	---		P-value		0.655	Power ---			Power-50%	---		P-value		0.655	Power ---			Power-50%	---		P-value		0.388
Stouffer's		Power ---			Power-50%	---		P-value		0.500	Power ---			Power-50%	---		P-value		0.500	Power ---			Power-50%	---		P-value		0.191
14.1C/14.1	2	12	1.67	1.67	11	0.00	0.00	-	+	0.339	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.63	0.45	11	0.45	0.45	-	.	0.707
14.2C/14.2	2	14	0.00	0.00	10	0.50	0.33	-	-	0.168	14	0.00	0.00	10	0.00	0.00	-	o	1.000	14	1.07	1.07	10	2.00	2.00	-	-	0.731
62762C/50983	2	12	0.63	0.45	12	0.00	0.00	-	+	0.173	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	1.25	0.84	12	0.42	0.42	-	-	0.459
Habitat Means			0.77	0.73		0.17	0.10		+			0.00	0.00		0.00	0.00		o			1.00	0.80		0.97	0.97		-	
Fisher's		Power 0.049			Power-50%	0.039		P-value		0.196	Power ---			Power-50%	---		P-value		0.655	Power 0.080			Power-50%	0.294		P-value		0.431
Stouffer's		Power 0.020			Power-50%	0.072		P-value		0.130	Power ---			Power-50%	---		P-value		0.500	Power 0.102			Power-50%	0.406		P-value		0.246
14.1C/14.1	3	12	2.92	1.01	10	0.00	0.00	-	+	0.002	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.42	0.28	10	0.00	0.00	-	.	0.166
14.2C/14.2	3	9	1.94	1.43	10	1.50	1.07	-	+	0.858	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.56	0.56	10	7.25	5.13	-	-	0.148
62762C/50983	3	12	3.54	2.25	9	1.67	0.93	-	+	0.582	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	4.79	2.27	9	0.00	0.00	-	+	0.015
Habitat Means			2.77	1.57		1.07	0.67		+			0.00	0.00		0.00	0.00		o			1.93	1.07		2.43	1.70		+	
Fisher's		Power ---			Power-50%	---		P-value		0.006	Power ---			Power-50%	---		P-value		0.655	Power ---			Power-50%	---		P-value		0.021 y
Stouffer's		Power ---			Power-50%	---		P-value		0.075	Power ---			Power-50%	---		P-value		0.500	Power ---			Power-50%	---		P-value		0.014

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	*Callithamnion pikeanum (A)* N	C	SE	N	O	SE	CV	D	P	*Polysiphonia/Pterosiphonia (A) (a)* N	C	SE	N	O	SE	CV	D	P	*Morphological Group: Crustose Reds* N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	4.55	2.36	-	-	0.054
14.2C/14.2	1	13	0.00	0.00	11	0.00	0.00	-	o	1.000	13	0.00	0.00	11	0.00	0.00	-	o	1.000	13	1.92	1.42	11	0.00	0.00	-	.	0.176
62762C/50983	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.21	0.21	-	-	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.07	0.07		-			0.63	0.47		1.53	0.80		-	
Fisher's		Power ---			Power-50%	---		P-value		0.655	Power ---			Power-50%	---		P-value		0.388	Power 0.018			Power-50%	0.000		P-value		0.186
Stouffer's		Power ---			Power-50%	---		P-value		0.500	Power ---			Power-50%	---		P-value		0.191	Power 0.001			Power-50%	0.000		P-value		0.435
14.1C/14.1	2	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.63	0.45	11	0.45	0.45	-	+	0.707	12	3.96	2.49	11	10.00	4.20	-	-	0.233
14.2C/14.2	2	14	0.00	0.00	10	0.00	0.00	-	o	1.000	14	1.07	1.07	10	2.00	2.00	-	-	0.731	14	0.18	0.18	10	2.00	0.97	-	-	0.081
62762C/50983	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	1.25	0.84	12	0.42	0.42	-	+	0.459	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			1.00	0.80		0.97	0.97		+			1.40	0.90		4.00	1.73		+	
Fisher's		Power ---			Power-50%	---		P-value		0.655	Power 0.081			Power-50%	0.278		P-value		0.431	Power ---			Power-50%	---		P-value		0.060
Stouffer's		Power ---			Power-50%	---		P-value		0.500	Power 0.101			Power-50%	0.375		P-value		0.246	Power 0.533			Power-50%	0.085		P-value		0.201
14.1C/14.1	3	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.42	0.28	10	0.00	0.00	-	+	0.166	12	9.79	1.86	10	10.25	3.38	-	-	0.771
14.2C/14.2	3	9	0.56	0.56	10	0.00	0.00	-	-	0.347	9	0.00	0.00	10	7.25	5.13	-	-	0.085	9	2.50	2.20	10	7.75	2.95	-	-	0.112
62762C/50983	3	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	4.79	2.27	9	0.00	0.00	-	-	0.015	12	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			0.20	0.20		0.00	0.00		-			1.73	0.87		2.43	1.70		-			4.10	1.37		6.03	2.13		-	
Fisher's		Power ---			Power-50%	---		P-value		0.393	Power ---			Power-50%	---		P-value		0.022 xy	Power 0.105			Power-50%	0.184		P-value		0.170
Stouffer's		Power ---			Power-50%	---		P-value		0.394	Power ---			Power-50%	---		P-value		0.017	Power 0.091			Power-50%	0.239		P-value		0.296

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.82. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1994. Undisturbed. (Continued.)

		Crustose Coralline Algae (P)								Hildenbrandia sp. (P)								Petrocelis (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	4.32	2.39	-	-	0.087	12	0.00	0.00	11	0.23	0.23	-	-	0.341
14.2C/14.2	1	13	0.00	0.00	11	0.00	0.00	-	o	1.000	13	1.92	1.42	11	0.00	0.00	-	·	0.176	13	0.00	0.00	11	0.00	0.00	-	o	1.000
62762C/50983	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.63	0.47		1.43	0.80		-			0.00	0.00		0.07	0.07		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.012		Power-50%		0.000	P-value		0.250	Power	---		Power-50%		---	P-value		0.389
Stouffer's		*Power*	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.000	P-value		0.459	Power	---		Power-50%		---	P-value		0.393
14.1C/14.1	2	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	3.96	2.49	11	10.00	4.20	-	-	0.233	12	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	2	14	0.00	0.00	10	0.00	0.00	-	o	1.000	14	0.18	0.18	10	2.00	0.97	-	-	0.081	14	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			1.40	0.90		4.00	1.73		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.060	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.523		Power-50%		0.091	P-value		0.201	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	12	0.42	0.42	10	0.75	0.53	-	-	0.540	12	9.17	1.88	10	9.50	3.45	-	-	0.743	12	0.21	0.21	10	0.00	0.00	-	+	0.339
14.2C/14.2	3	9	0.28	0.28	10	0.50	0.50	-	-	0.868	9	2.22	2.22	10	7.25	3.04	-	-	0.134	9	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	3	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			0.23	0.23		0.43	0.33		-			3.80	1.37		5.60	2.17		-			0.07	0.07		0.00	0.00		+	
Fisher's		Power	0.018		Power-50%		---	P-value		0.460	Power	0.116		Power-50%		0.483	P-value		0.187	Power	---		Power-50%		---	P-value		0.388
Stouffer's		Power	0.032		Power-50%		---	P-value		0.412	Power	0.085		Power-50%		0.439	P-value		0.301	Power	---		Power-50%		---	P-value		0.393

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.83. Algal Percent Cover. Invertebrates. Cook Inlet/Kenai. Sheltered Rocky. June 1994. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Actiniidae								Balanomorpha								Polyplacophora							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	2.08	1.30	11	2.05	1.81	-	+	0.810	12	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	1	13	0.00	0.00	11	0.00	0.00	-	o	1.000	13	0.96	0.67	11	1.59	0.77	-	-	0.396	13	0.00	0.00	11	0.00	0.00	-	o	1.000
62762C/50983	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	23.54	6.13	12	22.29	5.53	-	-	0.868	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			8.87	2.70		8.67	2.70		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.016		Power-50%		0.736	P-value		0.687	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.022		Power-50%		0.796	P-value		0.508	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	1.25	1.04	11	0.45	0.45	-	+	0.560	12	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	2	14	0.00	0.00	10	0.00	0.00	-	o	1.000	14	1.79	1.45	10	0.25	0.25	-	+	0.405	14	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	4.58	2.15	12	11.04	2.79	-	-	0.091	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			2.57	1.57		3.93	1.20		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.010		Power-50%		0.460	P-value		0.442xy	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.009		Power-50%		0.566	P-value		0.874	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	4.58	2.46	10	0.00	0.00	-	+	0.014	12	0.00	0.00	10	0.00	0.00	-	o	1.000
14.2C/14.2	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.25	0.25	-	-	0.343	9	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	3	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	8.96	4.26	9	3.06	1.30	-	+	0.274	12	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			4.53	2.27		1.13	0.53		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.026	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.076	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Lottiidae								Mytilus								Nucella lamellosa							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	1	13	0.00	0.00	11	0.00	0.00	-	o	1.000	13	0.77	0.77	11	0.91	0.70	-	-	0.692	13	0.00	0.00	11	0.00	0.00	-	o	1.000
62762C/50983	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	15.63	6.28	12	5.00	2.38	-	-	0.215	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			5.47	2.37		1.97	1.03		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.050		Power-50%		0.106	P-value		0.350	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.050		Power-50%		0.132	P-value		0.154	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	12	0.21	0.21	11	0.45	0.30	-	-	0.506	12	1.46	1.25	11	0.00	0.00	-	+	0.207	12	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	2	14	0.00	0.00	10	0.25	0.25	-	-	0.343	14	0.00	0.00	10	0.00	0.00	-	o	1.000	14	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	2	12	0.42	0.28	12	3.33	3.33	-	-	0.617	12	11.46	5.00	12	6.04	2.99	-	+	0.397	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.20	0.17		1.37	1.30		-			4.33	2.10		2.00	1.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.177		Power-50%		0.077	P-value		0.196	Power	0.090		Power-50%		0.178	P-value		0.165	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.258		Power-50%		0.082	P-value		0.180	Power	0.130		Power-50%		0.235	P-value		0.128	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
14.2C/14.2	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	3	12	0.21	0.21	9	0.00	0.00	-	+	0.339	12	0.83	0.64	9	0.28	0.28	-	+	0.581	12	0.00	0.00	9	0.28	0.28	-	-	0.347
Habitat Means			0.07	0.07		0.00	0.00		+			0.27	0.20		0.10	0.10		+			0.00	0.00		0.10	0.10		-	
Fisher's		Power	---		Power-50%		---	P-value		0.388	Power	0.001		Power-50%		0.000	P-value		0.513	Power	---		Power-50%		---	P-value		0.393
Stouffer's		Power	---		Power-50%		---	P-value		0.191	Power	0.000		Power-50%		0.000	P-value		0.307	Power	---		Power-50%		---	P-value		0.195

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.83. Algal Percent Cover. Invertebrates. Cook Inlet/Kenai. Sheltered Rocky. June 1994. Undisturbed. (Continued.)

Site Pair	Cell	N	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Littorinidae N	C	SE	N	O	SE	CV	D	P	Porifera N	C	SE	N	O	SE	CV	D	P	Cnideria N	C	SE	N	O	SE	CV	D	P
14.1C/14.[illegible]	1	12	0.42	0.42	11	0.23	0.23	-	-	0.858	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.[illegible]	1	13	0.00	0.00	11	0.00	0.00	-	o	1.000	13	0.00	0.00	11	0.00	0.00	-	o	1.000	13	0.00	0.00	11	0.00	0.00	-	o	1.000
62762C/50983	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.13	0.13		0.07	0.07		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---		P-value		0.614	Power	---		Power-50%	---		P-value		0.655	Power	---		Power-50%	---		P-value		0.655
Stouffer's		Power	---		Power-50%	---		P-value		0.480	Power	---		Power-50%	---		P-value		0.500	Power	---		Power-50%	---		P-value		0.500
14.1C/14.[illegible]	2	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.[illegible]	2	14	0.00	0.00	10	0.25	0.25	-	-	0.343	14	0.00	0.00	10	0.00	0.00	-	o	1.000	14	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	2	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.10	0.10		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---		P-value		0.391	Power	---		Power-50%	---		P-value		0.655	Power	---		Power-50%	---		P-value		0.655
Stouffer's		Power	---		Power-50%	---		P-value		0.394	Power	---		Power-50%	---		P-value		0.500	Power	---		Power-50%	---		P-value		0.500
14.1C/14.[illegible]	3	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.21	0.21	10	0.00	0.00	-	.	0.339	12	0.00	0.00	10	0.00	0.00	-	o	1.000
14.2C/14.[illegible]	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	3.06	1.60	10	0.00	0.00	-	+	0.053	9	0.00	0.00	10	0.25	0.25	-	-	0.343
62762C/50983	3	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	1.67	1.08	9	0.00	0.00	-	+	0.102	12	0.21	0.21	9	0.00	0.00	-	-	0.339
Habitat Means			0.00	0.00		0.00	0.00		o			1.67	0.97		0.00	0.00		+			0.07	0.07		0.10	0.10		-	
Fisher's		Power	---		Power-50%	---		P-value		0.655	Power	---		Power-50%	---		P-value		0.010	Power	---		Power-50%	---		P-value		0.504 y
Stouffer's		Power	---		Power-50%	---		P-value		0.500	Power	---		Power-50%	---		P-value		0.010	Power	---		Power-50%	---		P-value		0.273

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.84. Algal Percent Cover. Substrates. Cook Inlet/Kenai. Sheltered Rocky. June 1994. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Rock								Oiled Rock								Mud							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	87.29	6.56	11	75.45	8.46	-	+	0.287	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	1	13	54.23	9.08	11	90.00	3.44	-	-	0.003	13	0.00	0.00	11	0.00	0.00	-	o	1.000	13	0.00	0.00	11	0.00	0.00	-	o	1.000
62762C/50983	1	12	51.04	8.74	12	55.21	8.44	-	-	0.747	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			64.17	8.13		73.57	6.77		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---		P-value	0.017	Power	---			Power-50%	---		P-value	0.655	Power	---			Power-50%	---		P-value	0.655
Stouffer's		Power	0.385			Power-50%	0.989		P-value	0.200	Power	---			Power-50%	---		P-value	0.500	Power	---			Power-50%	---		P-value	0.500
14.1C/14.1	2	12	21.67	8.17	11	26.14	8.37	-	-	0.791	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	2	14	32.68	8.44	10	59.00	10.38	-	-	0.050	14	0.00	0.00	10	0.25	0.25	-	-	0.343	14	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	2	12	37.92	8.93	12	36.88	8.84	-	+	0.789	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			30.77	8.50		40.67	9.20		-			0.00	0.00		0.10	0.10		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.299			Power-50%	0.715		P-value	0.114	Power	---			Power-50%	---		P-value	0.391	Power	---			Power-50%	---		P-value	0.655
Stouffer's		Power	0.293			Power-50%	0.768		P-value	0.348	Power	---			Power-50%	---		P-value	0.394	Power	---			Power-50%	---		P-value	0.500
14.1C/14.1	3	12	2.71	1.64	10	15.50	5.80	-	-	0.018	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
14.2C/14.2	3	9	5.56	4.64	10	22.75	6.82	-	-	0.033	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	3	12	25.42	7.02	9	30.83	12.24	-	-	0.892	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			11.23	4.40		23.03	8.27		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---		P-value	0.004	Power	---			Power-50%	---		P-value	0.655	Power	---			Power-50%	---		P-value	0.655
Stouffer's		Power	---			Power-50%	---		P-value	0.080	Power	---			Power-50%	---		P-value	0.500	Power	---			Power-50%	---		P-value	0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Sand								Shell Fragments								Filamentous Diatoms							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	1	13	0.77	0.77	11	0.00	0.00	-	+	0.337	13	0.00	0.00	11	0.00	0.00	-	o	1.000	13	0.00	0.00	11	0.00	0.00	-	o	1.000
62762C/50983	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.27	0.27		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---		P-value	0.387	Power	---			Power-50%	---		P-value	0.655	Power	---			Power-50%	---		P-value	0.655
Stouffer's		Power	---			Power-50%	---		P-value	0.392	Power	---			Power-50%	---		P-value	0.500	Power	---			Power-50%	---		P-value	0.500
14.1C/14.1	2	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	0.00	0.00	11	0.00	0.00	-	o	1.000
14.2C/14.2	2	14	0.00	0.00	10	0.00	0.00	-	o	1.000	14	0.00	0.00	10	0.00	0.00	-	o	1.000	14	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	2	12	0.00	0.00	12	7.29	7.29	-	-	0.339	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		2.43	2.43		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---		P-value	0.388	Power	---			Power-50%	---		P-value	0.655	Power	---			Power-50%	---		P-value	0.655
Stouffer's		Power	---			Power-50%	---		P-value	0.191	Power	---			Power-50%	---		P-value	0.500	Power	---			Power-50%	---		P-value	0.500
14.1C/14.1	3	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	0.00	0.00	10	0.00	0.00	-	o	1.000
14.2C/14.2	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
62762C/50983	3	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---		P-value	0.655	Power	---			Power-50%	---		P-value	0.655	Power	---			Power-50%	---		P-value	0.655
Stouffer's		Power	---			Power-50%	---		P-value	0.500	Power	---			Power-50%	---		P-value	0.500	Power	---			Power-50%	---		P-value	0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.84. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Sheltered Rocky. June 1994. Undisturbed. (Continued.)

		Sand and Mud								Total Substrate															
Site Pair	Myd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]																					
14.2C/14.2	1	13	0.77	0.77	11	0.00	0.00	-	+	0.337	13	55.00	9.36	11	90.00	3.44	-	-	0.007									
62762C/50983	1	12	0.00	0.00	12	0.00	0.00	-	o	1.000	12	51.04	8.74	12	55.21	8.44	-	-	0.747									
Habitat Means			0.27	0.27		0.00	0.00		+			64.43	8.23		73.57	6.77		-										
Fisher's		Power	---		Power-50%		---	P-value		0.387	Power	---		Power-50%		---	P-value		0.035	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.392	Power	0.390		Power-50%		0.980	P-value		0.225	Power	---		Power-50%		---	P-value		
14.1C/14.1	2	12	0.00	0.00	11	0.00	0.00	-	o	1.000	12	21.67	8.17	11	26.14	8.37	-	-	0.791									
14.2C/14.2	2	14	0.00	0.00	10	0.00	0.00	-	o	1.000	14	32.68	8.44	10	59.25	10.46	-	-	0.048									
62762C/50983	2	12	0.00	0.00	12	7.29	7.29	-	-	0.339	12	37.92	8.93	12	44.17	9.08	-	-	0.704									
Habitat Means			0.00	0.00		2.43	2.43		-			30.77	8.50		43.20	9.33		-										
Fisher's		Power	---		Power-50%		---	P-value		0.388	Power	---		Power-50%		---	P-value		0.077	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.191	Power	0.365		Power-50%		0.710	P-value		0.162	Power	---		Power-50%		---	P-value		
14.1C/14.1	3	12	0.00	0.00	10	0.00	0.00	-	o	1.000	12	2.71	1.64	10	15.50	5.80	-	-	0.018									
14.2C/14.2	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	5.56	4.64	10	22.75	6.82	-	-	0.033									
62762C/50983	3	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	25.42	7.02	9	30.83	12.24	-	-	0.892									
Habitat Means			0.00	0.00		0.00	0.00		o			11.23	4.40		23.03	8.27		-										
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.004	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.080	Power	---		Power-50%		---	P-value		

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.85. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Sheltered Rocky. June 1992. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Algal Diversity Index (a)								Algal Taxa Richness (b)								Total Algae							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.04	0.04	6	0.17	0.08	-	-	0.163	6	1.17	0.17	6	2.33	0.61	-	-	0.097	6	46.25	15.29	6	47.92	16.30	-	-	0.945
14.2C/14.2	1	6	0.05	0.04	4	0.07	0.07	-	-	0.788	6	1.33	0.42	4	1.00	0.41	-	+	0.604	6	31.67	14.91	4	12.50	5.86	-	+	0.409
62762C/50983	1	6	0.14	0.06	6	0.00	0.00	-	+	0.076	6	1.50	0.22	6	0.83	0.17	-	+	0.038	6	39.17	13.02	6	72.08	15.76	-	-	0.252
Habitat Means			0.08	0.05		0.08	0.05		-			1.33	0.27		1.39	0.40		+			39.07	14.40		44.17	12.67		-	
Fisher's		Power	0.092		Power-50%		0.462	P-value		0.325x	Power	0.220		Power-50%		0.992	P-value		0.108xy	Power	0.048		Power-50%		0.411	P-value		0.412
Stouffer's		Power	0.008		Power-50%		0.583	P-value		0.875	Power	---		Power-50%		---	P-value		0.058	Power	0.041		Power-50%		0.475	P-value		0.203
14.1C/14.1	2	6	0.29	0.10	6	0.58	0.09	-	-	0.053	6	3.67	0.88	6	5.17	1.08	-	-	0.307	6	74.58	8.60	6	65.00	9.55	-	-	0.618
14.2C/14.2	2	6	0.07	0.07	4	0.24	0.13	-	-	0.243	6	1.67	0.88	4	2.25	0.63	-	-	0.643	6	81.25	16.38	4	36.88	9.86	-	-	0.105
62762C/50983	2	6	0.27	0.13	6	0.08	0.08	-	+	0.246	6	3.17	1.25	6	1.50	0.50	-	+	0.244	6	40.42	13.65	6	61.25	13.55	-	-	0.262
Habitat Means			0.21	0.10		0.30	0.10		-			2.83	1.00		2.97	0.74		-			65.43	12.90		54.40	11.03		-	
Fisher's		Power	---		Power-50%		---	P-value		0.068	Power	0.185		Power-50%		0.573	P-value		0.392	Power	0.131		Power-50%		0.853	P-value		0.202
Stouffer's		Power	0.208		Power-50%		0.415	P-value		0.571	Power	0.106		Power-50%		0.649	P-value		0.740	Power	0.083		Power-50%		0.884	P-value		0.663
14.1C/14.1	3	6	0.64	0.06	6	0.36	0.15	-	+	0.104	6	6.67	1.02	6	4.50	1.41	-	+	0.242	6	73.75	12.73	6	99.58	0.42	-	-	0.022
14.2C/14.2	3	2	0.39	0.25	5	0.53	0.14	-	-	0.629	2	4.50	1.50	5	5.00	1.14	-	-	0.818	2	100.00	0.00	5	89.50	5.50	-	-	0.087
62762C/50983	3	6	0.44	0.11	4	0.28	0.13	-	-	0.385	6	4.17	1.05	4	3.75	1.38	-	+	0.813	6	62.92	17.35	4	73.13	16.50	-	-	0.563
Habitat Means			0.49	0.14		0.39	0.14		-			5.11	1.19		4.42	1.31		+			78.90	10.03		87.40	7.47		-	
Fisher's		Power	0.280		Power-50%		0.812	P-value		0.126	Power	0.286		Power-50%		0.959	P-value		0.313	Power	---		Power-50%		---	P-value		0.071x
Stouffer's		Power	0.217		Power-50%		0.839	P-value		0.131	Power	0.279		Power-50%		0.969	P-value		0.314	Power	0.235		Power-50%		0.820	P-value		0.244

(a) Modified Shannon Index.
(b) Taxa richness calculations are explained in the methods.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Invertebrates								Rock								Perennials (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	9.58	3.68	-	-	0.033	6	53.75	15.29	6	42.50	13.26	-	+	0.650	6	46.25	15.29	6	44.17	14.74	-	+	0.796
14.2C/14.2	1	6	12.50	8.32	4	22.50	14.47	-	-	0.514	6	55.83	14.69	4	65.00	17.65	-	-	0.801	6	23.75	14.11	4	12.50	5.86	-	+	0.671
62762C/50983	1	6	46.67	13.21	6	7.08	3.44	-	+	0.026	6	14.17	7.82	6	20.83	12.56	-	-	0.669	6	38.75	13.22	6	72.08	15.76	-	-	0.246
Habitat Means			19.73	7.17		13.07	7.20		-			41.27	12.60		42.77	14.53		-			36.30	14.20		42.93	12.13		-	
Fisher's		Power	---		Power-50%		---	P-value		0.090xy	Power	0.039		Power-50%		0.534	P-value		0.569	Power	0.020		Power-50%		0.455	P-value		0.638 y
Stouffer's		Power	0.026		Power-50%		0.140	P-value		0.892	Power	0.028		Power-50%		0.647	P-value		0.369	Power	0.015		Power-50%		0.535	P-value		0.807
14.1C/14.1	2	6	2.92	2.92	6	7.92	5.49	-	-	0.482	6	22.50	7.53	6	27.08	9.97	-	-	0.873	6	65.42	8.84	6	38.33	6.38	-	-	0.035
14.2C/14.2	2	6	0.83	0.83	4	23.75	10.28	-	-	0.018	6	17.92	16.46	4	39.38	7.80	-	-	0.295	6	79.58	16.08	4	30.63	6.95	-	-	0.087
62762C/50983	2	6	42.92	13.78	6	15.00	6.26	-	+	0.084	6	16.67	4.73	6	10.83	4.07	-	+	0.300	6	26.67	9.82	6	51.67	13.58	-	-	0.149
Habitat Means			15.53	5.83		15.57	7.37		-			19.03	9.57		25.77	7.30		-			57.23	11.57		40.20	9.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.056x	Power	0.245		Power-50%		0.444	P-value		0.444	Power	---		Power-50%		---	P-value		0.024
Stouffer's		Power	0.073		Power-50%		0.327	P-value		0.761	Power	0.153		Power-50%		0.582	P-value		0.727	Power	0.173		Power-50%		0.943	P-value		0.591
14.1C/14.1	3	6	10.83	9.37	6	0.00	0.00	-	+	0.189	6	15.42	4.15	6	0.42	0.42	-	+	0.000	6	33.33	11.06	6	39.58	16.36	-	-	0.802
14.2C/14.2	3	2	0.00	0.00	5	3.50	2.18	-	-	0.179	2	0.00	0.00	5	7.00	5.83	-	-	0.229	2	43.75	36.25	5	52.50	11.21	-	-	0.695
62762C/50983	3	6	27.92	12.92	4	14.37	8.68	-	+	0.424	6	9.17	7.76	4	12.50	7.84	-	-	0.675	6	13.33	5.69	4	53.75	7.94	-	-	0.008
Habitat Means			12.90	7.43		5.97	3.63		+			8.20	4.00		6.63	4.67		-			30.13	17.70		48.63	11.83		-	
Fisher's		Power	0.084		Power-50%		0.049	P-value		0.237	Power	0.040		Power-50%		0.582	P-value		0.369xy	Power	---		Power-50%		---	P-value		0.019
Stouffer's		Power	0.029		Power-50%		0.087	P-value		0.235	Power	0.001		Power-50%		0.652	P-value		0.631	Power	---		Power-50%		---	P-value		0.004

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.85. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Sheltered Rocky. June 1992. Undisturbed. (Continued.)

		Annuals (A)								Ephemerals (AE)															
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
14.1C/14.1	1	6	0.00	0.00	6	3.75	2.12	-	-	0.096	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
14.2C/14.2	1	6	7.92	6.47	4	0.00	0.00	-	-	0.162	6	0.42	0.42	4	0.00	0.00	-	-	0.363									
62762C/50983	1	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			2.77	2.30		1.27	0.70		+			0.13	0.13		0.00	0.00		+										
Fisher's		Power	0.021		Power-50%		0.012	P-value		0.202x	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.002		Power-50%		0.021	P-value		0.225	Power	---		Power-50%		---	P-value		0.398	Power	---		Power-50%		---	P-value		
14.1C/14.1	2	6	9.17	6.38	6	26.67	6.25	-	-	0.034	6	0.42	0.42	6	2.92	2.08	-	-	0.329									
14.2C/14.2	2	6	1.67	1.67	4	6.25	2.98	-	-	0.133	6	0.42	0.42	4	2.50	2.50	-	-	0.473									
62762C/50983	2	6	13.75	8.80	6	9.58	9.58	-	+	0.497	6	3.33	2.86	6	2.08	2.08	-	+	0.692									
Habitat Means			8.23	5.63		14.20	6.30		-			1.37	1.23		2.50	2.23		-										
Fisher's		Power	---		Power-50%		---	P-value		0.028	Power	0.051		Power-50%		0.089	P-value		0.290	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.359		Power-50%		0.358	P-value		0.340	Power	0.099		Power-50%		0.266	P-value		0.452	Power	---		Power-50%		---	P-value		
14.1C/14.1	3	6	40.42	11.06	6	60.00	16.47	-	-	0.386	6	14.58	7.59	6	5.42	3.62	-	+	0.440									
14.2C/14.2	3	2	56.25	36.25	5	37.00	12.33	-	+	0.478	2	0.00	0.00	5	4.50	2.42	-	-	0.093									
62762C/50983	3	6	49.58	16.56	4	19.38	11.74	+	+	0.219	6	1.67	1.05	4	1.88	1.20	-	-	0.787									
Habitat Means			48.77	21.33		38.80	13.50		·			5.43	2.90		3.93	2.40		-										
Fisher's		Power	0.106		Power-50%		0.544	P-value		0.260	Power	0.101		Power-50%		0.316	P-value		0.204 y	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.063		Power-50%		0.623	P-value		0.140	Power	0.055		Power-50%		0.393	P-value		0.306	Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.86. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1992. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group: Bladed Greens								Bladed Greens (AE) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.42	0.42	4	0.00	0.00	-	+	0.363	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.27	0.27		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.223	Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.655
Stouffer's		Power	---		Power-50%	---	P-value			0.138	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500
14.1C/14.1	2	6	0.83	0.53	6	3.75	2.87	-	-	0.503	6	0.00	0.00	6	2.50	1.71	-	-	0.183	6	0.00	0.00	6	2.50	1.71	-	-	0.183
14.2C/14.2	2	6	0.42	0.42	4	2.50	2.50	-	-	0.473	6	0.42	0.42	4	0.00	0.00	-	+	0.363	6	0.42	0.42	4	0.00	0.00	-	+	0.363
62762C/50983	2	6	2.92	2.92	6	9.17	9.17	-	-	0.677	6	2.92	2.92	6	2.08	2.08	-	+	0.903	6	2.92	2.92	6	2.08	2.08	-	+	0.903
Habitat Means			1.37	1.27		5.17	4.87		-			1.10	1.10		1.53	1.27		+			1.10	1.10		1.53	1.27		+	
Fisher's		Power	0.128		Power-50%	0.288	P-value			0.252	Power	0.004		Power-50%	---	P-value			0.519 y	Power	0.003		Power-50%	---	P-value			0.519 y
Stouffer's		Power	0.223		Power-50%	0.390	P-value			0.219	Power	0.002		Power-50%	---	P-value			0.504	Power	0.002		Power-50%	---	P-value			0.504
14.1C/14.1	3	6	16.25	7.30	6	9.58	5.72	-	-	0.399	6	13.75	6.94	6	5.42	3.62	-	-	0.457	6	13.75	6.94	6	5.42	3.62	-	+	0.457
14.2C/14.2	3	2	0.00	0.00	5	4.50	2.42	-	-	0.093	2	0.00	0.00	5	4.50	2.42	-	+	0.093	2	0.00	0.00	5	4.50	2.42	-	-	0.093
62762C/50983	3	6	2.92	1.64	4	5.00	3.06	-	-	0.693	6	1.67	1.05	4	1.25	1.25	-	+	0.807	6	1.67	1.05	4	1.25	1.25	-	+	0.807
Habitat Means			6.40	2.97		6.37	3.73		-			5.17	2.67		3.73	2.43		+			5.17	2.67		3.73	2.43		+	
Fisher's		Power	0.147		Power-50%	0.161	P-value			0.191 y	Power	0.042		Power-50%	0.357	P-value			0.561x	Power	0.040		Power-50%	0.354	P-value			0.561x
Stouffer's		Power	0.141		Power-50%	0.203	P-value			0.274	Power	0.003		Power-50%	0.423	P-value			0.517	Power	0.005		Power-50%	0.422	P-value			0.517

(a) Formanentia, Monostroma, Ulva and Ulvaria
x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Fine Filamentous Greens								Acrosiphonia sp. (A)								Chaetomorpha/Rhizoclonium (A) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.13	0.13		0.00	0.00		+			0.13	0.13		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.403	Power	---		Power-50%	---	P-value			0.403	Power	---		Power-50%	---	P-value			0.655
Stouffer's		Power	---		Power-50%	---	P-value			0.203	Power	---		Power-50%	---	P-value			0.203	Power	---		Power-50%	---	P-value			0.500
14.1C/14.1	2	6	0.42	0.42	6	0.83	0.83	-	-	0.814	6	0.42	0.42	6	0.83	0.83	-	-	0.814	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.00	0.00	6	7.08	7.08	-	-	0.363	6	0.00	0.00	6	7.08	7.08	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.13	0.13		2.63	2.63		-			0.13	0.13		2.63	2.63		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.360	Power	---		Power-50%	---	P-value			0.360	Power	---		Power-50%	---	P-value			0.655
Stouffer's		Power	---		Power-50%	---	P-value			0.184	Power	---		Power-50%	---	P-value			0.184	Power	---		Power-50%	---	P-value			0.500
14.1C/14.1	3	6	1.25	0.85	6	4.17	3.69	-	-	0.634	6	1.25	0.85	6	4.17	3.69	-	-	0.634	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	3	6	1.25	0.85	4	3.13	1.88	-	-	0.450	6	1.25	0.85	4	3.13	1.88	-	-	0.450	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.87	0.60		2.43	1.87		-			0.87	0.60		2.43	1.87		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.062		Power-50%	0.205	P-value			0.353	Power	0.067		Power-50%	0.165	P-value			0.353	Power	---		Power-50%	---	P-value			0.655
Stouffer's		Power	0.077		Power-50%	0.328	P-value			0.204	Power	0.083		Power-50%	0.288	P-value			0.204	Power	---		Power-50%	---	P-value			0.500

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.86. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1992. Undisturbed. (Continued.)

		Cladophora sp. (AE)								Ulothrix sp. (AE)								Urospora sp. (AE)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Tubular and Saccate Greens								Blidingia/Enteromorpha (AE) (a)															
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
14.2C/14.2	1	6	0.42	0.42	4	0.00	0.00	-	+	0.363	6	0.42	0.42	4	0.00	0.00	-	+	0.363									
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.13	0.13		0.00	0.00		+			0.13	0.13		0.00	0.00		+										
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.398	Power	---		Power-50%		---	P-value		0.398	Power	---		Power-50%		---	P-value		
14.1C/14.1	2	6	0.42	0.42	6	0.42	0.42	-	o	1.000	6	0.42	0.42	6	0.42	0.42	-	o	1.000									
14.2C/14.2	2	6	0.00	0.00	4	2.50	2.50	-	-	0.391	6	0.00	0.00	4	2.50	2.50	-	-	0.391									
62762C/50983	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.13	0.13		0.97	0.97		-			0.13	0.13		0.97	0.97		-										
Fisher's		Power	---		Power-50%		---	P-value		0.419	Power	---		Power-50%		---	P-value		0.419	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		
14.1C/14.1	3	6	1.25	0.85	6	0.00	0.00	-	+	0.183	6	0.83	0.83	6	0.00	0.00	-	+	0.363									
14.2C/14.2	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000									
62762C/50983	3	6	0.00	0.00	4	0.63	0.63	-	-	0.391	6	0.00	0.00	4	0.63	0.63	-	-	0.391									
Habitat Means			0.43	0.30		0.20	0.20		+			0.27	0.27		0.20	0.20		+										
Fisher's		Power	0.006		Power-50%		0.005	P-value		0.359	Power	---		Power-50%		---	P-value		0.514	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.000		Power-50%		0.001	P-value		0.657	Power	---		Power-50%		---	P-value		0.700	Power	---		Power-50%		---	P-value		

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.87. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1992. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group: Bladed Browns								Alaria sp. (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	45.42	15.56	6	35.42	14.51	-	+	0.507	6	45.42	15.56	6	35.42	14.51	-	+	0.507	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	15.00	15.00	4	3.13	3.13	-	+	0.674	6	15.00	15.00	4	3.13	3.13	-	+	0.674	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	1	6	32.92	14.47	6	72.08	15.76	-	-	0.183	6	32.92	14.47	6	72.08	15.76	-	-	0.183	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			31.10	15.03		36.87	11.13		+			31.10	15.03		36.87	11.13		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.018		Power-50%		0.400	P-value		0.530 y	Power	0.018		Power-50%		0.421	P-value		0.530 y	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.006		Power-50%		0.489	P-value		0.818	Power	0.009		Power-50%		0.496	P-value		0.818	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	47.08	12.12	6	16.67	3.46	-	+	0.106	6	47.08	12.12	6	16.25	3.64	-	-	0.100	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	79.17	16.03	4	24.37	5.24	-	+	0.063	6	75.83	16.03	4	24.37	5.24	-	+	0.080	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	6	26.25	10.93	6	51.67	13.58	-	-	0.148	6	25.83	10.66	6	51.67	13.58	-	-	0.141	6	1.67	1.67	6	0.00	0.00	-	+	0.363
Habitat Means			50.87	13.00		30.93	7.43		+			49.57	12.93		30.80	7.47		+			0.57	0.57		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.044	Power	---		Power-50%		---	P-value		0.050	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	0.213		Power-50%		0.780	P-value		0.630	Power	0.207		Power-50%		0.808	P-value		0.648	Power	---		Power-50%		---	P-value		0.203
14.1C/14.1	3	6	22.08	6.34	6	53.75	15.65	-	-	0.152	6	18.75	5.07	6	52.92	15.92	-	-	0.124	6	1.25	0.85	6	40.83	19.60	-	-	0.120
14.2C/14.2	3	2	55.00	37.50	5	49.00	14.02	-	+	0.752	2	55.00	37.50	5	49.00	14.02	-	+	0.752	2	51.25	41.25	5	18.00	9.20	-	+	0.255
62762C/50983	3	6	37.92	14.07	4	51.25	8.75	-	-	0.420	6	37.92	14.07	4	51.25	8.75	-	-	0.420	6	33.33	13.73	4	0.00	0.00	-	-	0.041
Habitat Means			38.33	19.30		51.37	12.83		-			37.23	18.90		51.07	12.90		-			28.63	18.63		19.60	9.60		-	
Fisher's		Power	0.379		Power-50%		0.532	P-value		0.162	Power	0.398		Power-50%		0.546	P-value		0.142	Power	---		Power-50%		---	P-value		0.061
Stouffer's		Power	0.380		Power-50%		0.592	P-value		0.145	Power	0.398		Power-50%		0.598	P-value		0.139	Power	---		Power-50%		---	P-value		0.040

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total *Fucus gardneri* (P)								Adult *Fucus gardneri* (P) (> 2cm)								Juvenile *Fucus gardneri* (P) (<= 2cm)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	45.42	15.56	6	35.42	14.51	-	+	0.507	6	45.42	15.56	6	35.42	14.51	-	+	0.507	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	15.00	15.00	4	3.13	3.13	-	+	0.674	6	15.00	15.00	4	3.13	3.13	-	+	0.674	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	1	6	32.92	14.47	6	72.08	15.76	-	-	0.183	6	32.92	14.47	6	72.08	15.76	-	-	0.183	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			31.10	15.03		36.87	11.13		+			31.10	15.03		36.87	11.13		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.023		Power-50%		0.426	P-value		0.530 y	Power	0.019		Power-50%		0.405	P-value		0.530 y	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.008		Power-50%		0.530	P-value		0.818	Power	0.009		Power-50%		0.499	P-value		0.818	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	47.08	12.12	6	16.25	3.64	-	+	0.100	6	47.08	12.12	6	16.25	3.64	-	+	0.100	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	75.83	16.03	4	24.37	5.24	-	+	0.080	6	75.83	16.03	4	24.37	5.24	-	+	*0.080*	*6*	*0.00*	*0.00*	*4*	*0.00*	*0.00*	-	o	*1.000*
62762C/50983	2	6	24.17	9.76	6	51.67	13.58	-	-	0.115	6	24.17	9.76	6	51.67	13.58	-	-	0.115	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			49.03	12.63		30.80	7.47		+			49.03	12.63		30.80	7.47		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.051	Power	---		Power-50%		---	P-value		0.051	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.187		Power-50%		0.804	P-value		0.682	Power	0.192		Power-50%		0.811	P-value		0.682	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	6	17.50	5.52	6	12.08	8.18	-	+	0.280	6	17.50	5.52	6	12.08	8.18	-	+	0.280	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	3.75	3.75	5	31.00	16.06	-	-	0.407	2	3.75	3.75	5	31.00	16.06	-	-	0.407	2	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	3	6	4.58	3.06	4	51.25	8.75	-	-	0.001	6	4.58	3.06	4	51.25	8.75	-	-	0.001	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			8.63	4.13		31.47	11.03		-			8.63	4.13		31.47	11.03		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.003	Power	---		Power-50%		---	P-value		0.003	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.87. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1992. Undisturbed. (Continued.)

Site Pair	Mvd	Fucus Stipes (P) (a) N	C	SE	N	O	SE	CV	D	P	Petalonia/Punctaria (AE) (b) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Coarse Filamentous Browns N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.25	1.25	6	0.00	0.00	-	-	0.363
14.2C/14.2	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.43	0.43		0.00	0.00		.	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.398

(a) Dead Fucus plants or stipes without blades.
(b) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Analipus japonicus (P) N	C	SE	N	O	SE	CV	D	P	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.42	0.42	6	0.00	0.00	-	+	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.13	0.13		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.203
14.1C/14.1	3	6	1.25	1.25	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.43	0.43		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.398	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.87. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1992. Undisturbed. (Continued.)

		Fine Filamentous Browns (AE) (b)								Morphological Group: Saccate Browns								Leathesia/Colpomenia (A) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.13	0.13		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.203	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	2.08	1.36	6	0.42	0.42	-	+	0.359	6	0.00	0.00	6	0.42	0.42	-	-	0.363
14.2C/14.2	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.70	0.47		0.13	0.13		+			0.00	0.00		0.13	0.13		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.017		Power-50%		0.016	P-value		0.400	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.006		Power-50%		0.002	P-value		0.397	Power	---		Power-50%		---	P-value		0.398

(b) Blachista, Ectocarpus and Pilayella.

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Soranthera ulvoidea (A)								Morphological Group: Crustose Browns								Ralfsia/Petroderma (P) (a)							
Site [illegible]	[illegible]	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.42	0.42	-	-	0.363
14.2C/14.2	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	3.33	3.33	4	0.00	0.00	-	+	0.363	6	3.33	3.33	4	0.00	0.00	-	+	0.363
62762C/50983	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			1.10	1.10		0.13	0.13		-			1.10	1.10		0.13	0.13		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.519 y	Power	---		Power-50%		---	P-value		0.519 y
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	6	2.08	1.36	6	0.00	0.00	-	+	0.178	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.42	0.42	-	-	0.363
14.2C/14.2	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.70	0.47		0.00	0.00		+			0.00	0.00		0.13	0.13		-			0.00	0.00		0.13	0.13		-	
Fisher's		Power	0.019		Power-50%		0.015	P-value		0.268	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	0.002		Power-50%		0.002	P-value		0.350	Power	---		Power-50%		---	P-value		0.398	Power	---		Power-50%		---	P-value		0.398

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.88. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1992. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								*Morphological Group: Bladed Reds*								*Bangia sp. (AE)*							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
14.1C/14.1	1	6	0.83	0.83	6	12.50	5.66	-	-	0.030	6	0.00	0.00	6	1.67	1.67	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	16.25	8.34	4	9.38	4.83	-	+	0.664	6	6.67	6.67	4	0.00	0.00	-	+	0.363	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	1	6	5.83	3.75	6	0.00	0.00	-	+	0.176	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			7.63	4.30		7.30	3.50		+			2.23	2.23		0.57	0.57		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.015		Power-50%		0.235	P-value		0.312x	Power	---		Power-50%		---	P-value		0.519 y	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.004		Power-50%		0.395	P-value		0.229	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	26.67	12.66	6	44.58	8.50	-	-	0.197	6	7.92	4.40	6	17.50	5.32	-	-	0.176	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	1.67	1.67	4	10.00	9.19	-	-	0.314	6	1.67	1.67	4	3.13	3.13	-	-	0.718	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	6	11.25	7.63	6	0.42	0.42	-	+	0.166	6	5.00	3.71	6	0.42	0.42	-	-	0.283	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			13.23	7.33		18.33	6.03		-			4.87	3.27		7.00	2.93		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.087		Power-50%		0.211	P-value		0.203	Power	0.124		Power-50%		0.340	P-value		0.301	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.038		Power-50%		0.329	P-value		0.730	Power	0.051		Power-50%		0.507	P-value		0.689	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	6	35.42	7.68	6	36.25	14.79	-	-	0.971	6	2.92	1.98	6	3.75	2.12	-	-	0.826	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	45.00	37.50	5	36.00	14.85	-	+	0.781	2	13.75	11.25	5	18.00	9.37	-	-	0.905	2	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	3	6	22.08	7.94	4	16.88	10.92	-	+	0.667	6	3.33	2.01	4	6.25	3.31	-	-	0.434	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			34.17	17.70		29.73	13.53		+			6.67	5.10		9.37	4.93		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.074		Power-50%		0.335	P-value		0.493	Power	0.114		Power-50%		0.378	P-value		0.379	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.087		Power-50%		0.383	P-value		0.322	Power	0.152		Power-50%		0.445	P-value		0.208	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Gigartinaceae Group (P) (a)								*Palmaria spp. (A)*								*Phycodrys riggii (A)*							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
14.1C/14.1	1	6	0.00	0.00	6	1.67	1.67	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.57	0.57		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.398	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	5.83	4.01	6	1.67	1.67	-	+	0.320	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	0.42	0.42	4	3.13	3.13	-	-	0.440	6	0.42	0.42	4	0.00	0.00	-	+	0.363	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.83	0.53	6	0.00	0.00	-	+	0.175	6	2.50	1.71	6	0.42	0.42	-	+	0.340	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			2.33	1.63		1.60	1.60		+			1.10	0.83		0.13	0.13		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.150		Power-50%		0.317	P-value		0.171	Power	0.216		Power-50%		0.214	P-value		0.110	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.096	Power	---		Power-50%		---	P-value		0.082	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.42	0.42	6	0.00	0.00	-	-	0.363	6	0.00	0.00	6	0.83	0.83	-	-	0.363
14.2C/14.2	3	2	8.75	6.25	5	11.00	5.73	-	-	0.924	2	5.00	5.00	5	2.50	1.58	-	-	0.672	2	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	3	6	0.83	0.83	4	2.50	1.77	-	-	0.344	6	0.83	0.53	4	3.75	3.75	-	-	0.616	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			3.20	2.37		4.63	2.63		-			2.07	1.97		2.10	1.80		-			0.00	0.00		0.27	0.27		-	
Fisher's		Power	0.076		Power-50%		0.165	P-value		0.205	Power	0.169		Power-50%		0.333	P-value		0.388 y	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	0.152		Power-50%		0.174	P-value		0.125	Power	0.149		Power-50%		0.448	P-value		0.532	Power	---		Power-50%		---	P-value		0.398

(a) Chondrus, Fridaea, Mastocarpus and Rhodoglossum.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.88. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1992. Undisturbed. (Continued.)

		Porphyra sp. (A)								Tokidadendron kurilensis (A)								Morphological Group: Coarse Filamentous Reds							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	9.17	3.63	-	-	0.018
14.2C/14.2	1	6	6.67	6.67	4	0.00	0.00	-	+	0.363	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	9.58	4.89	4	9.38	4.83	-	+	0.995
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	5.83	3.75	6	0.00	0.00	-	-	0.176
Habitat Means			2.23	2.23		0.00	0.00		+			0.00	0.00		0.00	0.00		o			5.13	2.90		6.20	2.80		+	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655	Power	0.009		Power-50%		0.144	P-value		0.393xy
Stouffer's		Power	---		Power-50%		---	P-value		0.398	Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.219	P-value		0.286
14.1C/14.1	2	6	1.67	1.67	6	15.83	5.87	-	-	0.023	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	11.67	4.94	6	17.50	6.95	-	-	0.573
14.2C/14.2	2	6	0.83	0.83	4	0.00	0.00	-	+	0.363	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	6.88	6.07	-	-	0.261
62762C/50983	2	6	1.67	1.67	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.67	1.24	6	0.00	0.00	-	+	0.194
Habitat Means			1.40	1.40		5.27	1.97		+			0.00	0.00		0.00	0.00		o			4.47	2.03		8.13	4.37		-	
Fisher's		Power	0.001		Power-50%		---	P-value		0.335xy	Power	---		Power-50%		---	P-value		0.655	Power	0.040		Power-50%		0.175	P-value		0.342
Stouffer's		Power	0.003		Power-50%		---	P-value		0.330	Power	---		Power-50%		---	P-value		0.500	Power	0.014		Power-50%		0.244	P-value		0.760
14.1C/14.1	3	6	2.50	2.04	6	1.67	1.05	-	-	0.884	6	0.00	0.00	6	0.83	0.53	-	-	0.175	6	15.42	6.17	6	12.08	5.82	-	-	0.743
14.2C/14.2	3	2	0.00	0.00	5	4.50	4.50	-	-	0.374	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	31.25	26.25	5	7.50	3.45	-	-	0.206
62762C/50983	3	6	1.25	1.25	4	0.00	0.00	-	-	0.363	6	0.42	0.42	4	0.00	0.00	-	+	0.363	6	7.92	3.56	4	0.63	0.63	-	-	0.123
Habitat Means			1.27	1.10		2.07	1.87		+			0.13	0.13		0.27	0.17		-			18.20	12.03		6.73	3.30		+	
Fisher's		Power	0.004		Power-50%		0.008	P-value		0.487 y	Power	0.015		Power-50%		---	P-value		0.353	Power	---		Power-50%		---	P-value		0.060
Stouffer's		Power	0.004		Power-50%		0.030	P-value		0.268	Power	0.005		Power-50%		---	P-value		0.672	Power	---		Power-50%		---	P-value		0.031

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Articulate Coralline Algae (A)								Cryptosiphonia woodii (A)								Endocladia muricata (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	5.42	3.50	-	-	0.068
14.2C/14.2	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	8.75	5.15	4	9.38	4.83	-	-	0.741
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	5.83	3.75	6	0.00	0.00	-	-	0.176
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			4.87	3.00		4.93	2.77		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	0.157		Power-50%		0.206	P-value		0.177
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	0.053		Power-50%		0.283	P-value		0.733
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	3.75	3.28	-	-	0.233	6	0.83	0.53	6	5.83	2.93	-	-	0.198
14.2C/14.2	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	3.13	3.13	-	-	0.391
62762C/50983	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		1.27	1.10		-			0.27	0.17		2.97	2.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.000		Power-50%		---	P-value		0.314	Power	0.256		Power-50%		0.019	P-value		0.159
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		---	P-value		0.367	Power	0.293		Power-50%		0.019	P-value		0.270
14.1C/14.1	3	6	0.00	0.00	6	3.33	3.33	-	-	0.363	6	2.08	1.00	6	0.00	0.00	-	+	0.081	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	1.50	1.50	-	-	0.374	2	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.63	0.63	-	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		1.10	1.10		-			0.70	0.33		0.70	0.70		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	0.007		Power-50%		0.057	P-value		0.349x	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.398	Power	0.002		Power-50%		0.017	P-value		0.295	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.88. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1992. Undisturbed. (Continued.)

		Gloiopeltis furcata (A)								Microcladia borealis (A)								Neorhodomela/Rhodomela (P) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	3.75	2.12	-	-	0.096	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.83	0.53	4	0.00	0.00	-	+	0.175	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.27	0.17		1.27	0.70		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.021		Power-50%		0.012	P-value		0.266	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.001		Power-50%		0.012	P-value		0.465	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	6.25	4.55	6	2.08	1.36	-	+	0.588	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	4.58	2.69	6	1.67	1.67	-	+	0.228
14.2C/14.2	2	6	0.00	0.00	4	3.75	2.98	-	-	0.227	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			2.10	1.53		1.97	1.47		-			0.00	0.00		0.00	0.00		o			1.53	0.90		0.57	0.57		-	
Fisher's		Power	0.024		Power-50%		0.001	P-value		0.376 y	Power	---		Power-50%		---	P-value		0.655	Power	0.030		Power-50%		0.023	P-value		0.310
Stouffer's		Power	0.024		Power-50%		0.000	P-value		0.424	Power	---		Power-50%		---	P-value		0.500	Power	0.007		Power-50%		0.008	P-value		0.366
14.1C/14.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	7.50	5.74	6	0.00	0.00	-	+	0.202
14.2C/14.2	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			2.50	1.90		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	0.001		Power-50%		0.000	P-value		0.289
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.000	P-value		0.358

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Odonthalia floccosa (P)								Ptilota/Neoptilota (P) (b)								Morphological Group: Saccate Reds							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	0.00	0.00	6	4.17	2.64	-	-	0.175	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	1.25	1.25	-	-	0.363
14.2C/14.2	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	6	1.67	1.24	6	0.00	0.00	-	+	0.194	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	3.33	2.86	6	0.00	0.00	-	+	0.227
Habitat Means			0.57	0.40		1.40	0.87		-			0.00	0.00		0.00	0.00		o			1.10	0.97		0.43	0.43		+	
Fisher's		Power	0.003		Power-50%		0.003	P-value		0.373	Power	---		Power-50%		---	P-value		0.655	Power	0.000		Power-50%		0.000	P-value		0.408
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.789	Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.000	P-value		0.199
14.1C/14.1	3	6	5.83	2.39	6	2.50	2.50	-	+	0.212	6	0.00	0.00	6	6.25	3.81	-	-	0.111	6	5.83	2.01	6	2.50	2.04	-	+	0.076
14.2C/14.2	3	2	25.00	25.00	5	4.50	2.78	-	+	0.354	2	6.25	1.25	5	1.50	1.50	-	+	0.091	2	0.00	0.00	5	4.50	3.00	-	-	0.187
62762C/50983	3	6	7.92	3.56	4	0.00	0.00	-	+	0.041	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	5.83	3.91	4	9.38	8.56	-	-	0.746
Habitat Means			12.90	10.33		2.33	1.77		+			2.10	0.43		2.60	1.77		+			3.87	1.97		5.47	4.53		-	
Fisher's		Power	---		Power-50%		---	P-value		0.015	Power	0.051		Power-50%		0.434	P-value		0.263 y	Power	0.028		Power-50%		0.855	P-value		0.340x
Stouffer's		Power	---		Power-50%		---	P-value		0.006	Power	0.001		Power-50%		0.216	P-value		0.489	Power	0.026		Power-50%		0.867	P-value		0.434

(b) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.88. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1992. Undisturbed. (Continued.)

Site Pair	Mvd	Halosaccion glandiforme (A) N	C	SE	N	O	SE	CV	D	P	Halosaccion spp. (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	0.00	0.00	6	1.25	1.25	-	~	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	6	3.33	2.86	6	0.00	0.00	-	+	0.227	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.25	0.85	6	0.00	0.00	-	·	0.183
Habitat Means			1.10	0.97		0.43	0.43		+			0.00	0.00		0.00	0.00		o			0.43	0.30		0.00	0.00		-	
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.408	Power	---		Power-50%		---	P-value		0.655	Power	0.009		Power-50%		0.004	P-value		0.272
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.199	Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.000	P-value		0.111
14.1C/14.1	3	6	5.83	2.01	6	2.50	2.04	-	·	0.076	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	10.00	8.59	6	0.00	0.00	-	+	0.233
14.2C/14.2	3	2	0.00	0.00	5	4.50	3.00	-	-	0.187	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	1.50	1.50	-	-	0.374
62762C/50983	3	6	5.83	3.91	4	9.38	8.56	-	-	0.746	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	5.00	2.14	4	0.63	0.63	-	+	0.143
Habitat Means			3.87	1.97		5.47	4.53		-			0.00	0.00		0.00	0.00		o			5.00	3.57		0.70	0.70		+	
Fisher's		Power	0.024		Power-50%		0.835	P-value		0.340x	Power	---		Power-50%		---	P-value		0.655	Power	0.099		Power-50%		0.055	P-value		0.125
Stouffer's		Power	0.024		Power-50%		0.853	P-value		0.434	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.077

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Callithamnion pikeanum (A) N	C	SE	N	O	SE	CV	D	P	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Crustose Reds N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.83	0.83	6	1.67	1.67	-	-	0.811
14.2C/14.2	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.27	0.27		0.57	0.57		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.599
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.473
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	7.08	6.60	6	8.33	4.77	-	-	0.681
14.2C/14.2	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.25	0.85	6	0.00	0.00	-	·	0.183	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.43	0.30		0.00	0.00		·			2.37	2.20		2.77	1.60		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.010		Power-50%		0.004	P-value		0.272	Power	0.003		Power-50%		0.000	P-value		0.553
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.000	P-value		0.111	Power	0.000		Power-50%		0.000	P-value		0.453
14.1C/14.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	10.00	8.59	6	0.00	0.00	-	+	0.233	6	1.25	0.85	6	17.92	16.46	-	-	0.389
14.2C/14.2	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	1.50	1.50	-	-	0.374	2	0.00	0.00	5	4.50	3.91	-	-	0.240
62762C/50983	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	5.00	2.14	4	0.63	0.63	-	·	0.143	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			5.00	3.57		0.70	0.70		+			0.43	0.30		7.47	6.80		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.100		Power-50%		0.063	P-value		0.125	Power	0.035		Power-50%		0.008	P-value		0.179
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.077	Power	0.072		Power-50%		0.000	P-value		0.281

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.88. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1992. Undisturbed. (Continued.)

		Crustose Coralline Algae (P)								Hildenbrandia sp. (P)								Petrocelis (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.83	0.83	6	1.67	1.67	-	-	0.811	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.27	0.27		0.57	0.57		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.599	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.473	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	7.08	6.60	6	8.33	4.77	-	-	0.681	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			2.37	2.20		2.77	1.60		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.002		Power-50%		0.000	P-value		0.553	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.000	P-value		0.453	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.25	0.85	6	17.92	16.46	-	-	0.389	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	0.00	0.00	5	0.50	0.50	-	-	0.374	2	0.00	0.00	5	2.00	2.00	-	-	0.374	2	0.00	0.00	5	2.00	2.00	-	-	0.374
62762C/50983	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.17	0.17		-			0.43	0.30		6.63	6.17		-			0.00	0.00		0.67	0.67		-	
Fisher's		Power	---		Power-50%		---	P-value		0.409	Power	0.011		Power-50%		0.011	P-value		0.237	Power	---		Power-50%		---	P-value		0.409
Stouffer's		Power	---		Power-50%		---	P-value		0.400	Power	0.022		Power-50%		0.002	P-value		0.309	Power	---		Power-50%		---	P-value		0.400

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.89. Algal Percent Cover. Invertebrates. Cook Inlet/Kenai. Sheltered Rocky. June 1992. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variati
SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Actiniidae								Balanomorpha								Polyplacophora							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	6.67	2.35	-	-	0.031	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	12.08	8.43	4	18.13	14.98	-	-	0.707	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	24.17	9.28	6	5.83	2.64	-	-	0.092	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			12.10	5.90		10.20	6.73		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value	0.655		Power	0.123		Power-50%		0.320	P-value	0.106xy		Power	---		Power-50%		---	P-value	0.655	
Stouffer's		Power	---		Power-50%		---	P-value	0.500		Power	0.025		Power-50%		0.395	P-value	0.794		Power	---		Power-50%		---	P-value	0.500	
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	2.50	2.50	6	7.92	5.49	-	-	0.447	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.83	0.83	4	20.00	7.84	-	-	0.017	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	27.08	12.46	6	10.00	3.10	-	+	0.167	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			10.13	5.27		12.63	5.47		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value	0.655		Power	---		Power-50%		---	P-value	0.048		Power	---		Power-50%		---	P-value	0.655	
Stouffer's		Power	---		Power-50%		---	P-value	0.500		Power	0.116		Power-50%		0.365	P-value	0.644		Power	---		Power-50%		---	P-value	0.500	
14.1C/14.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	10.83	9.37	6	0.00	0.00	-	+	0.189	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	3.00	2.00	-	-	0.187	2	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	20.42	9.88	4	8.12	5.34	-	-	0.339	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			10.40	6.43		3.70	2.43		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value	0.655		Power	0.100		Power-50%		0.050	P-value	0.206		Power	---		Power-50%		---	P-value	0.655	
Stouffer's		Power	---		Power-50%		---	P-value	0.500		Power	0.035		Power-50%		0.073	P-value	0.191		Power	---		Power-50%		---	P-value	0.500	

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Lottiidae								Mytilus								Nucella lamellosa							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	2.50	1.58	-	-	0.175	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.42	0.42	4	3.75	3.75	-	-	0.417	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	22.50	7.39	6	1.25	1.25	-	-	0.012	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			7.63	2.60		2.53	2.23		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value	0.655		Power	0.023		Power-50%		0.066	P-value	0.236xy		Power	---		Power-50%		---	P-value	0.655	
Stouffer's		Power	---		Power-50%		---	P-value	0.500		Power	0.002		Power-50%		0.077	P-value	0.953		Power	---		Power-50%		---	P-value	0.500	
14.1C/14.1	2	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	0.00	0.00	4	0.63	0.63	-	-	0.391	6	0.00	0.00	4	0.63	0.63	-	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	15.83	10.50	6	5.00	3.59	-	+	0.482	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.13	0.13		0.20	0.20		+			5.27	3.50		1.87	1.40		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value	0.514 y		Power	0.002		Power-50%		0.002	P-value	0.518 y		Power	---		Power-50%		---	P-value	0.655	
Stouffer's		Power	---		Power-50%		---	P-value	0.494		Power	0.004		Power-50%		0.000	P-value	0.655		Power	---		Power-50%		---	P-value	0.500	
14.1C/14.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	6.67	4.41	4	6.25	6.25	-	+	0.892	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			2.23	1.47		2.10	2.10		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value	0.655		Power	0.006		Power-50%		0.017	P-value	0.624		Power	---		Power-50%		---	P-value	0.655	
Stouffer's		Power	---		Power-50%		---	P-value	0.500		Power	0.000		Power-50%		0.001	P-value	0.450		Power	---		Power-50%		---	P-value	0.500	

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.89. Algal Percent Cover. Invertebrates. Cook Inlet/Kenai. Sheltered Rocky. June 1992. Undisturbed. (Continued.)

		Littorinidae								Porifera								Cnideria							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	4	0.63	0.63	-	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.33	0.33		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.234	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.307	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	0.00	0.00	4	2.50	2.50	-	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.83	0.83		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.419	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	0.00	0.00	5	0.50	0.50	-	-	0.374	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.83	0.83	4	0.00	0.00	-	+	0.363	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.17	0.17		-			0.27	0.27		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.409	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.400	Power	---		Power-50%		---	P-value		0.203	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.90. Algal Percent Cover. Substrates. Cook Inlet/Kenai. Sheltered Rocky. June 1992. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; - = control > oiled; + = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Rock								Oiled Rock								Mud							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	53.75	15.29	6	42.50	13.26	-	+	0.650	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	55.83	14.69	4	65.00	17.65	-	-	0.801	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	1	6	14.17	7.82	6	20.83	12.56	-	-	0.669	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			41.27	12.60		42.77	14.53		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.044		Power-50%		0.546	P-value		0.569	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.036		Power-50%		0.627	P-value		0.369	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	22.50	7.53	6	27.08	9.97	-	-	0.873	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	17.92	16.46	4	39.38	7.80	-	-	0.295	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	6	16.67	4.73	6	10.83	4.07	-	+	0.300	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			19.03	9.57		25.77	7.30		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.231		Power-50%		0.444	P-value		0.444	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.149		Power-50%		0.586	P-value		0.727	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	6	15.42	4.15	6	0.42	0.42	-	+	0.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	0.00	0.00	5	7.00	5.83	-	-	0.229	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	3	6	9.17	7.76	4	12.50	7.84	-	-	0.675	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			8.20	4.00		6.63	4.67		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.037		Power-50%		0.569	P-value		0.369xy	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.001		Power-50%		0.644	P-value		0.631	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Sand								Shell Fragments								Filamentous Diatoms							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.00	0.00	6	12.92	12.92	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		4.30	4.30		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.203	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.90. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Sheltered Rocky. June 1992. Undisturbed. (Continued.)

		Sand and Mud								Total Substrate															
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV D P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	53.75	15.29	6	42.50	13.26	-	+	0.650							
14.2C/14.2	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	55.83	14.69	4	65.00	17.65	-	-	0.801							
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	14.17	7.82	6	20.83	12.56	-	-	0.669							
Habitat Means			0.00	0.00		0.00	0.00		o			41.27	12.60		42.77	14.53		-								
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.039		Power-50%		0.560	P-value		0.569	Power	---		Power-50%		---	P-value
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.033		Power-50%		0.643	P-value		0.369	Power	---		Power-50%		---	P-value
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	22.50	7.53	6	27.08	9.97	-	-	0.873							
14.2C/14.2	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	17.92	16.46	4	39.38	7.80	-	-	0.295							
62762C/50983	2	6	0.00	0.00	6	12.92	12.92	-	-	0.363	6	16.67	4.73	6	23.75	12.89	-	-	0.834							
Habitat Means			0.00	0.00		4.30	4.30		-			19.03	9.57		30.10	10.23		-								
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	0.291		Power-50%		0.458	P-value		0.299	Power	---		Power-50%		---	P-value
Stouffer's		Power	---		Power-50%		---	P-value		0.203	Power	0.263		Power-50%		0.587	P-value		0.296	Power	---		Power-50%		---	P-value
14.1C/14.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	15.42	4.15	6	0.42	0.42	-	+	0.000							
14.2C/14.2	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	7.00	5.83	-	-	0.229							
62762C/50983	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	9.17	7.76	4	12.50	7.84	-	-	0.675							
Habitat Means			0.00	0.00		0.00	0.00		o			8.20	4.00		6.63	4.67		-								
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.037		Power-50%		0.561	P-value		0.369xy	Power	---		Power-50%		---	P-value
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.001		Power-50%		0.643	P-value		0.631	Power	---		Power-50%		---	P-value

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.91. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Coarse Textured. May 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Algal Diversity Index (a)								Algal Taxa Richness (b)								Total Algae							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.30	0.15	-	-	0.081	8	0.00	0.00	10	3.25	2.24	-	-	0.111
51091C/51091	1	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	8	0.00	0.00	9	0.00	0.00	-	o	1.000	8	0.00	0.00	9	0.00	0.00	-	o	1.000	8	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.10	0.05		-			0.00	0.00		1.10	0.73		-	
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power	0.000		Power-50%		---	P-value		0.164	Power	0.010		Power-50%		---	P-value		0.200
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		---	P-value		0.163	Power	0.001		Power-50%		---	P-value		0.185
50389C/50389	2	6	0.00	0.00	10	0.03	0.03	-	-	0.343	6	0.00	0.00	10	0.40	0.22	-	-	0.104	6	0.00	0.00	10	2.25	1.51	-	-	0.108
51091C/51091	2	8	0.00	0.00	6	0.00	0.00	-	o	1.000	8	0.13	0.13	6	0.00	0.00	-	+	0.351	8	6.25	6.25	6	0.00	0.00	-	-	0.351
62802C/50226	2	6	0.00	0.00	9	0.00	0.00	-	o	1.000	6	0.50	0.22	9	0.22	0.15	-	+	0.297	6	9.80	8.58	9	0.70	0.56	-	-	0.292
Habitat Means			0.00	0.00		0.01	0.01		-			0.21	0.12		0.21	0.12		+			5.37	4.97		1.00	0.70		-	
Fisher's	Power		---		Power-50%		---	P-value		0.391	Power	0.098		Power-50%	0.000	P-value			0.285	Power	0.061		Power-50%	0.038	P-value			0.282
Stouffer's	Power		---		Power-50%		---	P-value		0.297	Power	0.020		Power-50%	0.000	P-value			0.405	Power	0.015		Power-50%	0.080	P-value			0.398
50389C/50389	3	6	0.00	0.00	10	0.14	0.08	-	-	0.110	6	0.00	0.00	10	1.50	0.64	-	-	0.043	6	0.00	0.00	10	19.01	9.65	-	-	0.034
51091C/51091	3	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	3	9	0.19	0.06	10	0.08	0.06	-	+	0.259	9	1.33	0.44	10	1.20	0.47	-	+	0.839	9	9.44	6.01	10	14.15	6.05	-	-	0.470
Habitat Means			0.06	0.02		0.07	0.05		-			0.44	0.15		0.90	0.37		-			3.13	2.00		11.07	5.27		-	
Fisher's	Power		0.030		Power-50%		0.268	P-value		0.280	Power	0.423		Power-50%	0.278	P-value			0.118	Power	---		Power-50%		---	P-value		0.053
Stouffer's	Power		0.013		Power-50%		0.181	P-value		0.433	Power	0.194		Power-50%	0.173	P-value			0.157	Power	---		Power-50%		---	P-value		0.048

(a) Modified Shannon Index.
(b) Taxa richness calculations are explained in the methods.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Invertebrates								Rock								Perennials (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	8	0.63	0.63	10	4.25	2.01	-	-	0.100	8	86.87	12.43	10	92.50	3.50	-	-	0.852	8	0.00	0.00	10	3.25	2.24	-	-	0.111
51091C/51091	1	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	97.14	1.84	6	94.38	5.62	-	+	0.923	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	8	0.00	0.00	9	6.39	4.27	-	-	0.170	8	86.26	11.90	9	93.61	4.27	-	-	0.618	8	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			0.20	0.20		3.57	2.10		-			90.10	8.70		93.50	4.47		-			0.00	0.00		1.10	0.73		-	
Fisher's	Power		---		Power-50%		---	P-value		0.055	Power	0.234		Power-50%	0.886	P-value			0.507	Power	0.010		Power-50%		---	P-value		0.200
Stouffer's	Power		---		Power-50%		---	P-value		0.035	Power	0.230		Power-50%	0.910	P-value			0.353	Power	0.001		Power-50%		---	P-value		0.185
50389C/50389	2	6	0.00	0.00	10	1.40	0.66	-	-	0.026	6	55.42	20.52	10	96.40	1.62	-	-	0.148	6	0.00	0.00	10	2.13	1.51	-	-	0.122
51091C/51091	2	8	0.63	0.62	6	0.00	0.00	-	+	0.351	8	75.48	12.38	6	88.35	5.51	-	-	0.544	8	6.25	6.25	6	0.00	0.00	-	+	0.351
62802C/50226	2	6	2.73	1.82	9	0.70	0.56	-	+	0.230	6	75.23	12.30	9	98.34	0.80	-	-	0.114	6	9.80	8.58	9	0.70	0.56	-	+	0.292
Habitat Means			1.10	0.80		0.70	0.43		-			68.70	15.07		94.37	2.63		-			5.37	4.97		0.93	0.70		+	
Fisher's	Power		0.061		Power-50%		0.097	P-value		0.250x	Power	---		Power-50%	---	P-value			0.035	Power	0.050		Power-50%	0.032	P-value			0.281
Stouffer's	Power		0.004		Power-50%		0.156	P-value		0.500	Power	---		Power-50%	---	P-value			0.016	Power	0.014		Power-50%	0.057	P-value			0.385
50389C/50389	3	6	0.00	0.00	10	1.88	0.82	-	-	0.023	6	100.00	0.00	10	78.14	9.88	-	+	0.016	6	0.00	0.00	10	10.64	4.00	-	-	0.012
51091C/51091	3	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	84.11	13.09	6	88.97	7.28	-	-	0.773	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	3	9	3.21	1.29	10	13.14	3.12	-	-	0.013	9	72.38	11.62	10	70.88	8.47	-	+	0.929	9	6.12	4.35	10	6.64	3.35	-	-	0.791
Habitat Means			1.07	0.43		5.00	1.30		-			85.50	8.23		79.33	8.57		+			2.03	1.47		5.73	2.47		-	
Fisher's	Power		---		Power-50%		---	P-value		0.002	Power	---		Power-50%	---	P-value			0.058	Power	---		Power-50%		---	P-value		0.037
Stouffer's	Power		---		Power-50%		---	P-value		0.002	Power	0.075		Power-50%	0.958	P-value			0.103	Power	---		Power-50%		---	P-value		0.057

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.91. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Coarse Textured. May 1991. Undisturbed. (Continued.)

		Annuals (A)								Ephemerals (AE)																			
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000									
51091C/51091	1	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000									
62802C/50226	1	8	0.00	0.00	9	0.00	0.00	-	o	1.000	8	0.00	0.00	9	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power		---		Power-50%		---	P-value		0.655	Power		---		Power-50%		---	P-value	
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value	
50389C/50389	2	6	0.00	0.00	10	0.13	0.13	-	-	0.343	6	0.00	0.00	10	0.13	0.13	-	-	0.343									
51091C/51091	2	8	0.00	0.00	6	0.00	0.00	-	o	1.000	8	0.00	0.00	6	0.00	0.00	-	o	1.000									
62802C/50226	2	6	0.00	0.00	9	0.00	0.00	-	o	1.000	6	0.00	0.00	9	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.03	0.03		-			0.00	0.00		0.03	0.03		-										
Fisher's	Power		---		Power-50%		---	P-value		0.391	Power		---		Power-50%		---	P-value		0.391	Power		---		Power-50%		---	P-value	
Stouffer's	Power		---		Power-50%		---	P-value		0.297	Power		---		Power-50%		---	P-value		0.297	Power		---		Power-50%		---	P-value	
50389C/50389	3	6	0.00	0.00	10	8.38	6.94	-	-	0.170	6	0.00	0.00	10	4.26	3.86	-	-	0.233									
51091C/51091	3	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000									
62802C/50226	3	9	3.34	1.80	10	7.51	5.03	-	-	0.792	9	2.38	1.60	10	4.88	3.22	-	-	0.851									
Habitat Means			1.10	0.60		5.30	3.97		-			0.80	0.53		3.07	2.37		-										
Fisher's	Power		0.060		Power-50%		0.026	P-value		0.226	Power		0.019		Power-50%		0.035	P-value		0.286	Power		---		Power-50%		---	P-value	
Stouffer's	Power		0.146		Power-50%		0.008	P-value		0.173	Power		0.059		Power-50%		0.011	P-value		0.214	Power		---		Power-50%		---	P-value	

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.92. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Coarse Textured. May 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; - = control > oiled; + = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group: Bladed Greens								Bladed Greens (AE) (a)							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
50389C/50389	1	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000
51091C/51091	1	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	8	0.00	0.00	9	0.00	0.00	-	o	1.000	8	0.00	0.00	9	0.00	0.00	-	o	1.000	8	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	6	0.00	0.00	10	0.13	0.13	-	-	0.343	6	0.00	0.00	10	0.13	0.13	-	-	0.343	6	0.00	0.00	10	0.13	0.13	-	-	0.343
51091C/51091	2	8	0.00	0.00	6	0.00	0.00	-	o	1.000	8	0.00	0.00	6	0.00	0.00	-	o	1.000	8	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	2	6	0.00	0.00	9	0.00	0.00	-	o	1.000	6	0.00	0.00	9	0.00	0.00	-	o	1.000	6	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.03	0.03		-			0.00	0.00		0.03	0.03		-			0.00	0.00		0.03	0.03		-	
Fisher's		Power	---		Power-50%		---	P-value		0.391	Power	---		Power-50%		---	P-value		0.391	Power	---		Power-50%		---	P-value		0.391
Stouffer's		Power	---		Power-50%		---	P-value		0.297	Power	---		Power-50%		---	P-value		0.297	Power	---		Power-50%		---	P-value		0.297
50389C/50389	3	6	0.00	0.00	10	4.26	3.86	-	-	0.233	6	0.00	0.00	10	2.88	2.49	-	-	0.214	6	0.00	0.00	10	2.88	2.49	-	-	0.214
51091C/51091	3	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	3	9	2.38	1.60	10	4.63	3.01	-	-	0.874	9	1.81	1.65	10	4.63	3.01	-	-	0.496	9	1.81	1.65	10	4.63	3.01	-	-	0.496
Habitat Means			0.80	0.53		2.97	2.30		-			0.60	0.57		2.50	1.83		-			0.60	0.57		2.50	1.83		-	
Fisher's		Power	0.018		Power-50%		0.035	P-value		0.291	Power	0.031		Power-50%		0.000	P-value		0.195	Power	0.032		Power-50%		0.000	P-value		0.195
Stouffer's		Power	0.059		Power-50%		0.015	P-value		0.220	Power	0.102		Power-50%		0.000	P-value		0.127	Power	0.101		Power-50%		0.000	P-value		0.127

(a) Kornmannia, Monostroma, Ulva and Ulvaria.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Fine Filamentous Greens								Acrosiphonia sp. (A)								Cladophora sp. (AE)							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
50389C/50389	1	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000
51091C/51091	1	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	8	0.00	0.00	9	0.00	0.00	-	o	1.000	8	0.00	0.00	9	0.00	0.00	-	o	1.000	8	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	0.00	0.00	10	0.00	0.00	-	o	1.000
51091C/51091	2	8	0.00	0.00	6	0.00	0.00	-	o	1.000	8	0.00	0.00	6	0.00	0.00	-	o	1.000	8	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	2	6	0.00	0.00	9	0.00	0.00	-	o	1.000	6	0.00	0.00	9	0.00	0.00	-	o	1.000	6	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	3	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	0.00	0.00	10	0.00	0.00	-	o	1.000
51091C/51091	3	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	3	9	0.14	0.14	10	0.00	0.00	-	+	0.347	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.14	0.14	10	0.00	0.00	-	+	0.347
Habitat Means			0.03	0.03		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.03	0.03		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.393	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.393
Stouffer's		Power	---		Power-50%		---	P-value		0.271	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.271

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.92. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Coarse Textured. May 1991. Undisturbed. (Continued.)

		Morphological Group: Tubular and Saccate Greens								Blidingia/Enteromorpha (AE) (a)																
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P							
50389C/50389	1	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000							
51091C/51091	1	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000							
62802C/50226	1	8	0.00	0.00	9	0.00	0.00	-	o	1.000	8	0.00	0.00	9	0.00	0.00	-	o	1.000							
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o								
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---	Power-50%	---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---	Power-50%	---	P-value		
50389C/50389	2	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	0.00	0.00	10	0.00	0.00	-	o	1.000							
51091C/51091	2	8	0.00	0.00	6	0.00	0.00	-	o	1.000	8	0.00	0.00	6	0.00	0.00	-	o	1.000							
62802C/50226	2	6	0.00	0.00	9	0.00	0.00	-	o	1.000	6	0.00	0.00	9	0.00	0.00	-	o	1.000							
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o								
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---	Power-50%	---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---	Power-50%	---	P-value		
50389C/50389	3	6	0.00	0.00	10	1.38	1.38	-	-	0.343	6	0.00	0.00	10	1.38	1.38	-	-	0.343							
51091C/51091	3	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000							
62802C/50226	3	9	0.42	0.30	10	0.00	0.00	-	-	0.175	9	0.42	0.30	10	0.00	0.00	-	+	0.175							
Habitat Means			0.13	0.10		0.47	0.47		-			0.13	0.10		0.47	0.47		-								
Fisher's		Power	0.003		Power-50%		0.007	P-value		0.356 y	Power	0.003		Power-50%		0.002	P-value		0.356 y	Power	---	Power-50%	---	P-value		
Stouffer's		Power	0.001		Power-50%		0.002	P-value		0.365	Power	0.001		Power-50%		0.001	P-value		0.365	Power	---	Power-50%	---	P-value		

(a) Genera not separated.

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.93. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Coarse Textured. May 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group: Bladed Browns								Total Fucus gardneri (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	8	0.00	0.00	10	3.25	2.24	-	-	0.111	8	0.00	0.00	10	3.25	2.24	-	-	0.111	8	0.00	0.00	10	3.25	2.24	-	-	0.111
51091C/51091	1	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	8	0.00	0.00	9	0.00	0.00	-	o	1.000	8	0.00	0.00	9	0.00	0.00	-	o	1.000	8	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		1.10	0.73		-			0.00	0.00		1.10	0.73		-			0.00	0.00		1.10	0.73		-	
Fisher's		Power	0.011			Power-50%		---	P-value	0.200	Power	0.009			Power-50%		---	P-value	0.200	Power	0.009			Power-50%		---	P-value	0.200
Stouffer's		Power	0.001			Power-50%		---	P-value	0.185	Power	0.000			Power-50%		---	P-value	0.185	Power	0.000			Power-50%		---	P-value	0.185
50389C/50389	2	6	0.00	0.00	10	2.13	1.51	-	-	0.122	6	0.00	0.00	10	2.13	1.51	-	-	0.122	6	0.00	0.00	10	2.13	1.51	-	-	0.122
51091C/51091	2	8	6.25	6.25	6	0.00	0.00	-	+	0.351	8	6.25	6.25	6	0.00	0.00	-	+	0.351	8	6.25	6.25	6	0.00	0.00	-	+	0.351
62802C/50226	2	6	9.80	8.58	9	0.70	0.56	-	+	0.292	6	9.80	8.58	9	0.70	0.56	-	+	0.292	6	9.80	8.58	9	0.70	0.56	-	+	0.292
Habitat Means			5.37	4.97		0.93	0.70		+			5.37	4.97		0.93	0.70		+			5.37	4.97		0.93	0.70		+	
Fisher's		Power	0.053			Power-50%	0.044	P-value		0.281	Power	0.050			Power-50%	0.027	P-value		0.281	Power	0.046			Power-50%	0.036	P-value		0.281
Stouffer's		Power	0.014			Power-50%	0.081	P-value		0.385	Power	0.010			Power-50%	0.071	P-value		0.385	Power	0.012			Power-50%	0.070	P-value		0.385
50389C/50389	3	6	0.00	0.00	10	10.64	4.00	-	-	0.012	6	0.00	0.00	10	10.64	4.00	-	-	0.012	6	0.00	0.00	10	10.64	4.00	-	-	0.012
51091C/51091	3	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	3	9	6.81	4.46	10	6.89	3.39	-	-	0.842	9	5.98	4.35	10	6.64	3.35	-	-	0.767	9	5.98	4.35	10	6.64	3.35	-	-	0.767
Habitat Means			2.27	1.50		5.83	2.47		-			2.00	1.47		5.73	2.47		-			2.00	1.47		5.73	2.47		-	
Fisher's		Power	---			Power-50%	---	P-value		0.039	Power	---			Power-50%	---	P-value		0.036	Power	---			Power-50%	---	P-value		0.036
Stouffer's		Power	---			Power-50%	---	P-value		0.062	Power	---			Power-50%	---	P-value		0.055	Power	---			Power-50%	---	P-value		0.055

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Adult Fucus gardneri (P) (> 2cm)								Juvenile Fucus gardneri (P) (<= 2cm)								Fucus Stipes (P) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	8	0.00	0.00	10	2.75	2.25	-	-	0.200	8	0.00	0.00	10	0.50	0.50	-	-	0.343	8	0.00	0.00	10	0.00	0.00	-	o	1.000
51091C/51091	1	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	8	0.00	0.00	9	0.00	0.00	-	o	1.000	8	0.00	0.00	9	0.00	0.00	-	o	1.000	8	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.93	0.77		-			0.00	0.00		0.17	0.17		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.001			Power-50%		---	P-value	0.287	Power	---			Power-50%		---	P-value	0.391	Power	---			Power-50%		---	P-value	0.655
Stouffer's		Power	0.000			Power-50%		---	P-value	0.235	Power	---			Power-50%		---	P-value	0.297	Power	---			Power-50%		---	P-value	0.500
50389C/50389	2	6	0.00	0.00	10	2.13	1.51	-	-	0.122	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	0.00	0.00	10	0.00	0.00	-	o	1.000
51091C/51091	2	8	6.25	6.25	6	0.00	0.00	-	+	0.351	8	0.00	0.00	6	0.00	0.00	-	o	1.000	8	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	2	6	9.80	8.58	9	0.70	0.56	-	-	0.292	6	0.00	0.00	9	0.00	0.00	-	o	1.000	6	0.00	0.00	9	0.28	0.28	-	-	0.347
Habitat Means			5.37	4.97		0.93	0.70		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.10	0.10		-	
Fisher's		Power	0.045			Power-50%	0.035	P-value		0.281	Power	---			Power-50%	---	P-value		0.655	Power	---			Power-50%	---	P-value		0.393
Stouffer's		Power	0.011			Power-50%	0.070	P-value		0.385	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.271
50389C/50389	3	6	0.00	0.00	10	10.02	3.93	-	-	0.013	6	0.00	0.00	10	0.63	0.63	-	-	0.343	6	0.00	0.00	10	0.00	0.00	-	o	1.000
51091C/51091	3	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	3	9	5.29	3.81	10	6.52	3.33	-	-	0.704	9	0.70	0.56	10	0.13	0.13	-	+	0.359	9	0.00	0.00	10	0.38	0.27	-	-	0.174
Habitat Means			1.77	1.27		5.50	2.40		-			0.23	0.20		0.23	0.23		-			0.00	0.00		0.13	0.10		-	
Fisher's		Power	---			Power-50%	---	P-value		0.036	Power	0.001			Power-50%	0.002	P-value		0.505 y	Power	0.006			Power-50%	---	P-value		0.265
Stouffer's		Power	---			Power-50%	---	P-value		0.051	Power	0.003			Power-50%	0.000	P-value		0.524	Power	0.004			Power-50%	---	P-value		0.190

Table C-5.93. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Coarse Textured. May 1991. Undisturbed. (Continued.)

		Morphological Group: Coarse Filamentous Browns									*Myelophycus/Scytosiphon (A) (a)*									Morphological Group: Fine Filamentous Browns								
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
50389C/50389	1	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000
51091C/51091	1	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	8	0.00	0.00	9	0.00	0.00	-	o	1.000	8	0.00	0.00	9	0.00	0.00	-	o	1.000	8	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	0.00	0.00	10	0.00	0.00	-	o	1.000
51091C/51091	2	8	0.00	0.00	6	0.00	0.00	-	o	1.000	8	0.00	0.00	6	0.00	0.00	-	o	1.000	8	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	2	6	0.00	0.00	9	0.00	0.00	-	o	1.000	6	0.00	0.00	9	0.00	0.00	-	o	1.000	6	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	3	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	0.00	0.00	10	0.00	0.00	-	o	1.000
51091C/51091	3	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	3	9	0.83	0.83	10	0.00	0.00	-	+	0.347	9	0.83	0.83	10	0.00	0.00	-	+	0.347	9	0.00	0.00	10	0.25	0.25	-	-	0.343
Habitat Means			0.27	0.27		0.00	0.00		+			0.27	0.27		0.00	0.00		+			0.00	0.00		0.10	0.10		-	
Fisher's		Power	---		Power-50%		---	P-value		0.393	Power	---		Power-50%		---	P-value		0.393	Power	---		Power-50%		---	P-value		0.391
Stouffer's		Power	---		Power-50%		---	P-value		0.271	Power	---		Power-50%		---	P-value		0.271	Power	---		Power-50%		---	P-value		0.270

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall te
z Only one site pair.

		Fine Filamentous Browns (AE) (b)																										
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
50389C/50389	1	8	0.00	0.00	10	0.00	0.00	-	o	1.000																		
51091C/51091	1	7	0.00	0.00	6	0.00	0.00	-	o	1.000																		
62802C/50226	1	8	0.00	0.00	9	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
50389C/50389	2	6	0.00	0.00	10	0.00	0.00	-	o	1.000																		
51091C/51091	2	8	0.00	0.00	6	0.00	0.00	-	o	1.000																		
62802C/50226	2	6	0.00	0.00	9	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
50389C/50389	3	6	0.00	0.00	10	0.00	0.00	-	o	1.000																		
51091C/51091	3	7	0.00	0.00	6	0.00	0.00	-	o	1.000																		
62802C/50226	3	9	0.00	0.00	10	0.25	0.25	-	-	0.343																		
Habitat Means			0.00	0.00		0.10	0.10		-																			
Fisher's		Power	---		Power-50%		---	P-value		0.391	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.270	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

(b) Elachista, Ectocarpus and Pilayella.

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall te
z Only one site pair.

Table C-5.94. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Coarse Textured. May 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group: Bladed Reds								Gigartinaceae Group (P) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000
51091C/51091	1	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	8	0.00	0.00	9	0.00	0.00	-	o	1.000	8	0.00	0.00	9	0.00	0.00	-	o	1.000	8	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	0.00	0.00	10	0.00	0.00	-	o	1.000
51091C/51091	2	8	0.00	0.00	6	0.00	0.00	-	o	1.000	8	0.00	0.00	6	0.00	0.00	-	o	1.000	8	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	2	6	0.00	0.00	9	0.00	0.00	-	o	1.000	6	0.00	0.00	9	0.00	0.00	-	o	1.000	6	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	3	6	0.00	0.00	10	4.13	3.11	-	-	0.132	6	0.00	0.00	10	3.13	2.51	-	-	0.196	6	0.00	0.00	10	0.00	0.00	-	o	1.000
51091C/51091	3	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	3	9	0.29	0.19	10	2.63	2.03	-	-	0.401	9	0.29	0.19	10	2.00	2.00	-	-	0.678	9	0.14	0.14	10	0.00	0.00	-	+	0.347
Habitat Means			0.10	0.07		2.23	1.70		-			0.10	0.07		1.70	1.50		-			0.03	0.03		0.00	0.00		+	
Fisher's		Power	0.150		Power-50%		0.027	P-value		0.123	Power	0.026		Power-50%		0.023	P-value		0.224	Power	---		Power-50%		---	P-value		0.393
Stouffer's		Power	---		Power-50%		---	P-value		0.082	Power	0.077		Power-50%		0.002	P-value		0.159	Power	---		Power-50%		---	P-value		0.271

(a) Chondrus, Iridaea, Mastocarpus and Rhodoglossum.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Palmaria spp. (A)								Porphyra sp. (A)								Morphological Group: Coarse Filamentous Reds							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000
51091C/51091	1	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	8	0.00	0.00	9	0.00	0.00	-	o	1.000	8	0.00	0.00	9	0.00	0.00	-	o	1.000	8	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	0.00	0.00	10	0.00	0.00	-	o	1.000
51091C/51091	2	8	0.00	0.00	6	0.00	0.00	-	o	1.000	8	0.00	0.00	6	0.00	0.00	-	o	1.000	8	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	2	6	0.00	0.00	9	0.00	0.00	-	o	1.000	6	0.00	0.00	9	0.00	0.00	-	o	1.000	6	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	3	6	0.00	0.00	10	2.00	2.00	-	-	0.343	6	0.00	0.00	10	1.13	0.76	-	-	0.169	6	0.00	0.00	10	0.25	0.25	-	-	0.343
51091C/51091	3	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	3	9	0.00	0.00	10	1.50	1.50	-	-	0.343	9	0.14	0.14	10	0.00	0.00	-	+	0.347	9	0.00	0.00	10	0.63	0.63	-	-	0.343
Habitat Means			0.00	0.00		1.17	1.17		-			0.03	0.03		0.37	0.27		-			0.00	0.00		0.30	0.30		-	
Fisher's		Power	---		Power-50%		---	P-value		0.208	Power	0.006		Power-50%		---	P-value		0.348	Power	---		Power-50%		---	P-value		0.208
Stouffer's		Power	---		Power-50%		---	P-value		0.126	Power	0.000		Power-50%		---	P-value		0.434	Power	---		Power-50%		---	P-value		0.126

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.94. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Coarse Textured. May 1991. Undisturbed. (Continued.)

Site Pair	Mvd	Endocladia muricata (P) N	C	SE	N	O	SE	CV	D	P	Gloiopeltis furcata (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Saccate Reds N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000
51091C/51091	1	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	8	0.00	0.00	9	0.00	0.00	-	o	1.000	8	0.00	0.00	9	0.00	0.00	-	o	1.000	8	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	0.00	0.00	10	0.00	0.00	-	o	1.000
51091C/51091	2	8	0.00	0.00	6	0.00	0.00	-	o	1.000	8	0.00	0.00	6	0.00	0.00	-	o	1.000	8	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	2	6	0.00	0.00	9	0.00	0.00	-	o	1.000	6	0.00	0.00	9	0.00	0.00	-	o	1.000	6	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	3	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	0.00	0.00	10	0.25	0.25	-	-	0.343	6	0.00	0.00	10	0.00	0.00	-	o	1.000
51091C/51091	3	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.63	0.63	-	-	0.343	9	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.30	0.30		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.208	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.126	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Halosaccion glandiforme (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000
51091C/51091	1	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	8	0.00	0.00	9	0.00	0.00	-	o	1.000	8	0.00	0.00	9	0.00	0.00	-	o	1.000	8	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	0.00	0.00	10	0.00	0.00	-	o	1.000
51091C/51091	2	8	0.00	0.00	6	0.00	0.00	-	o	1.000	8	0.00	0.00	6	0.00	0.00	-	o	1.000	8	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	2	6	0.00	0.00	9	0.00	0.00	-	o	1.000	6	0.00	0.00	9	0.00	0.00	-	o	1.000	6	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	3	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	0.00	0.00	10	0.76	0.63	-	-	0.201	6	0.00	0.00	10	0.76	0.63	-	-	0.201
51091C/51091	3	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			*0.00*	*0.00*		*0.00*	*0.00*		o			*0.00*	*0.00*		*0.27*	*0.20*		-			0.00	0.00		0.27	0.20		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.000		Power-50%		---	P-value		0.288	Power	0.000		Power-50%		---	P-value		0.288
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		---	P-value		0.236	Power	0.000		Power-50%		---	P-value		0.236

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.94. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Coarse Textured. May 1991. Undisturbed. (Continued.)

		Morphological Group: Crustose Reds								Hildenbrandia sp. (P)																			
Site Pair	mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	
50389C/50389	1	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000										
51091C/51091	1	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000										
62802C/50226	1	8	0.00	0.00	9	0.00	0.00	-	o	1.000	8	0.00	0.00	9	0.00	0.00	-	o	1.000										
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o											
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			
50389C/50389	2	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	0.00	0.00	10	0.00	0.00	-	o	1.000										
51091C/51091	2	8	0.00	0.00	6	0.00	0.00	-	o	1.000	8	0.00	0.00	6	0.00	0.00	-	o	1.000										
62802C/50226	2	6	0.00	0.00	9	0.00	0.00	-	o	1.000	6	0.00	0.00	9	0.00	0.00	-	o	1.000										
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o											
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			
50389C/50389	3	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	0.00	0.00	10	0.00	0.00	-	o	1.000										
51091C/51091	3	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000										
62802C/50226	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000										
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o											
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.95. Algal Percent Cover. Invertebrates. Cook Inlet/Kenai. Coarse Textured. May 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Balanomorpha								Lottiidae								Mytilus							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	8	0.63	0.63	10	4.25	2.01	-	-	0.100	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000
51091C/51091	1	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	8	0.00	0.00	9	6.11	4.06	-	-	0.170	8	0.00	0.00	9	0.28	0.28	-	-	0.347	8	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			0.20	0.20		3.47	2.03		-			0.00	0.00		0.10	0.10		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.055	Power	---		Power-50%		---	P-value		0.393	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.035	Power	---		Power-50%		---	P-value		0.271	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	6	0.00	0.00	10	1.40	0.66	-	-	0.026	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	0.00	0.00	10	0.00	0.00	-	o	1.000
51091C/51091	2	8	0.63	0.62	6	0.00	0.00	-	+	0.351	8	0.00	0.00	6	0.00	0.00	-	o	1.000	8	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	2	6	2.73	1.82	9	0.70	0.56	-	+	0.230	6	0.00	0.00	9	0.00	0.00	-	o	1.000	6	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			1.10	0.80		0.70	0.43		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.060		Power-50%		0.112	P-value		0.250x	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.004		Power-50%		0.160	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	*3*	*6*	*0.00*	*0.00*	*10*	*1.88*	*0.82*	-	-	*0.023*	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	0.00	0.00	10	0.00	0.00	-	o	1.000
51091C/51091	3	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	3	9	3.21	1.29	10	9.27	2.64	-	-	0.044	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	3.88	1.50	-	-	0.019
Habitat Means			1.07	0.43		3.73	1.13		-			0.00	0.00		0.00	0.00		o			0.00	0.00		1.30	0.50		-	
Fisher's		Power	---		Power-50%		---	P-value		0.006	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.061
Stouffer's		Power	---		Power-50%		---	P-value		0.005	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.065

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Littorinidae																									
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	8	0.00	0.00	10	0.00	0.00	-	o	1.000																	
51091C/51091	1	7	0.00	0.00	6	0.00	0.00	-	o	1.000																	
62802C/50226	1	8	0.00	0.00	9	0.00	0.00	-	o	1.000																	
Habitat Means			0.00	0.00		0.00	0.00		o																		
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
50389C/50389	2	6	0.00	0.00	10	0.00	0.00	-	o	1.000																	
51091C/51091	2	8	0.00	0.00	6	0.00	0.00	-	o	1.000																	
62802C/50226	*2*	*6*	*0.00*	*0.00*	*9*	*0.00*	*0.00*	-	*o*	*1.000*																	
Habitat Means			0.00	0.00		0.00	0.00		o																		
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
50389C/50389	3	6	0.00	0.00	10	0.00	0.00	-	o	1.000																	
51091C/51091	3	7	0.00	0.00	6	0.00	0.00	-	o	1.000																	
62802C/50226	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000																	
Habitat Means			0.00	0.00		0.00	0.00		o																		
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.96. Algal Percent Cover. Substrates. Cook Inlet/Kenai. Coarse Textured. May 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Rock								Mud								Sand							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	8	86.87	12.43	10	92.50	3.50	-	-	0.852	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	12.50	12.50	10	0.00	0.00	-	+	0.351
51091C/51091	1	7	97.14	1.84	6	94.38	5.62	-	+	0.923	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	2.86	1.84	6	5.63	5.63	-	-	0.922
62802C/50226	1	8	86.26	11.90	9	93.61	4.27	-	-	0.618	8	0.00	0.00	9	0.00	0.00	-	o	1.000	8	13.14	11.93	9	0.00	0.00	-	+	0.259
Habitat Means			90.10	8.70		93.50	4.47		-			0.00	0.00		0.00	0.00		o			9.50	8.73		1.87	1.87		+	
Fisher's		Power	0.236		Power-50%		0.893	P-value		0.507	Power	---		Power-50%		---	P-value		0.655	Power	0.114		Power-50%		0.196	P-value		0.185
Stouffer's		Power	0.234		Power-50%		0.921	P-value		0.353	Power	---		Power-50%		---	P-value		0.500	Power	0.242		Power-50%		0.376	P-value		0.114
50389C/50389	2	6	55.42	20.52	10	96.40	1.62	-	-	0.148	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	44.58	20.52	10	0.00	0.00	-	+	0.085
51091C/51091	2	8	75.48	12.38	6	88.35	5.51	-	-	0.544	8	0.00	0.00	6	0.00	0.00	-	o	1.000	8	17.66	11.01	6	11.68	5.52	-	+	0.764
62802C/50226	2	6	75.23	12.30	9	98.34	0.80	-	-	0.114	6	0.00	0.00	9	0.00	0.00	-	o	1.000	6	12.08	9.41	9	0.00	0.00	-	+	0.209
Habitat Means			68.70	15.07		94.37	2.63		-			0.00	0.00		0.00	0.00		o			24.80	13.63		3.90	1.83		+	
Fisher's		Power	---		Power-50%		---	P-value		0.035	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.047
Stouffer's		Power	---		Power-50%		---	P-value		0.016	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.026
50389C/50389	3	6	100.00	0.00	10	78.14	9.88	-	-	0.016	6	0.00	0.00	10	1.01	0.70	-	-	0.172	6	0.00	0.00	10	0.00	0.00	-	o	1.000
51091C/51091	3	7	84.11	13.09	6	88.97	7.28	-	-	0.773	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	15.90	13.10	6	11.05	7.30	-	+	0.773
62802C/50226	3	9	72.38	11.62	10	70.88	8.47	-	+	0.929	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	15.00	10.95	10	0.00	0.00	-	+	0.161
Habitat Means			85.50	8.23		79.33	8.57		+			0.00	0.00		0.33	0.23		-			10.30	8.03		3.70	2.43		+	
Fisher's		Power	---		Power-50%		---	P-value		0.058	Power	0.006		Power-50%		---	P-value		0.262	Power	0.050		Power-50%		0.121	P-value		0.215
Stouffer's		Power	0.068		Power-50%		0.959	P-value		0.103	Power	0.000		Power-50%		---	P-value		0.221	Power	0.088		Power-50%		0.283	P-value		0.145

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Shell Fragments								Zostera/Phyllospadix								Sand and							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P									
50389C/50389	1	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	12.50	12.50	10	0.00	0.00	-	+	0.351
51091C/51091	1	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	2.86	1.84	6	5.63	5.63	-	-	0.922
62802C/50226	1	8	0.00	0.00	9	0.00	0.00	-	o	1.000	8	0.00	0.00	9	0.00	0.00	-	o	1.000	8	13.76	11.91	9	0.00	0.00	-	+	0.242
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			9.73	8.73		1.87	1.87		+	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	ow	0.139		Power-50%		0.217	P-value		0.177
Stouffer's		P			ow -50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	ow	0.248		Power-50%		0.369	P-value		0.109
50389C/50389	2	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	44.58	20.52	10	0.00	0.00	-	-	0.085
51091C/51091	2	8	0.00	0.00	6	0.00	0.00	-	o	1.000	8	0.00	0.00	6	0.00	0.00	-	o	1.000	8	17.66	11.01	6	11.68	5.52	-	-	0.764
62802C/50226	2	6	0.22	0.22	9	0.00	0.00	-	+	0.363	6	0.00	0.00	9	0.00	0.00	-	o	1.000	6	12.30	9.62	9	0.00	0.00	-	-	0.210
Habitat Means			0.07	0.07		0.00	0.00		+			0.00	0.00		0.00	0.00		o			24.87	13.70		3.90	1.83		+	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655	ow	---		Power-50%		---	P-value		0.047
Stouffer's		Power	---		Power-50%		---	P-value		0.278	Power	---		Power-50%		---	P-value		0.500	ow	---		Power-50%		---	P-value		0.027
50389C/50389	3	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	0.00	0.00	10	0.00	0.00	-	o	1.000	6	0.00	0.00	10	1.01	0.70	-	-	0.172
51091C/51091	3	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	15.90	13.10	6	11.05	7.30	-	+	0.773
62802C/50226	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	1.50	1.50	-	-	0.343	9	15.00	10.95	10	0.00	0.00	-	+	0.161
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.50	0.50		-			10.30	8.03		4.03	2.67		+	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.391	ow	0.031		Power-50%		0.140	P-value		0.309
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.270	ow	0.011		Power-50%		0.305	P-value		0.387

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.96. Algal Percent Cover. Substrates. Cook Inlet/Kenai. Coarse Textured. May 1991. Undisturbed. (Continued.)

		Total Substrate																								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	8	99.37	0.63	10	92.50	3.50	-	+	0.075																		
51091C/51091	1	7	100.00	0.00	6	100.00	0.00	-	o	1.000																		
62802C/50226	1	8	100.00	0.00	9	93.61	4.27	-	+	0.170																		
Habitat Means			99.80	0.20		95.37	2.60		+																			
Fisher's		Power	---		Power-50%		---	P-value		0.045	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.030	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
50389C/50389	2	6	100.00	0.00	10	96.40	1.62	-	,	0.015																		
51091C/51091	2	8	93.12	6.88	6	100.00	0.00	-	-	0.351																		
62802C/50226	2	6	87.52	10.28	9	98.34	0.80	-	-	0.294																		
Habitat Means			93.53	5.73		98.23	0.80		-																			
Fisher's		Power	0.356		Power-50%		1.000	P-value		0.291x	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.316		Power-50%		1.000	P-value		0.582	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
50389C/50389	3	6	100.00	0.00	10	79.14	9.37	-	+	0.011																		
51091C/51091	3	7	100.00	0.00	6	100.00	0.00	-	o	1.000																		
62802C/50226	3	9	87.38	5.89	10	70.88	8.47	-	+	0.114																		
Habitat Means			95.80	1.97		83.33	5.97		+																			
Fisher's		Power	---		Power-50%		---	P-value		0.008	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.007	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.97. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Coarse Textured. June 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Algal Diversity Index (a)							Algal Taxa Richness (b)								Total Algae							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.18	0.12	-	-	0.167	8	0.00	0.00	11	1.25	1.13	-	-	0.225
51091C/51091	1	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.06	0.04		-			0.00	0.00		0.43	0.37		-	
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power	0.000		Power-50%		---	P-value		0.258	Power	0.000		Power-50%		---	P-value		0.308
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		---	P-value		0.218	Power	0.000		Power-50%		---	P-value		0.247
50389C/50389	2	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.09	0.09	-	-	0.341	7	0.00	0.00	11	1.14	1.14	-	-	0.341
51091C/51091	2	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	2	9	0.00	0.00	8	0.00	0.00	-	o	1.000	9	0.11	0.11	8	0.00	0.00	-	-	0.347	9	3.20	3.20	8	0.00	0.00	-	+	0.347
Habitat Means			0.00	0.00		0.00	0.00		o			0.04	0.04		0.03	0.03		-			1.07	1.07		0.37	0.37		-	
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.505 y	Power	---		Power-50%		---	P-value		0.505 y
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.529	Power	---		Power-50%		---	P-value		0.529
50389C/50389	3	9	0.00	0.00	10	0.21	0.09	-	-	0.039	9	0.22	0.15	10	2.70	0.80	-	-	0.013	9	4.44	4.14	10	22.77	7.80	-	-	0.017
51091C/51091	3	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.09	0.09	6	0.00	0.00	-	+	0.341	11	2.50	2.50	6	0.00	0.00	-	+	0.341
62802C/50226	3	7	0.06	0.06	10	0.16	0.06	-	-	0.301	7	1.14	0.51	10	1.50	0.43	-	-	0.599	7	15.20	9.22	10	15.39	6.26	-	-	0.884
Habitat Means			0.02	0.02		0.12	0.05		-			0.49	0.25		1.40	0.41		-			7.37	5.27		12.73	4.70		-	
Fisher's	Power		---		Power-50%		---	P-value		0.042	Power	---		Power-50%		---	P-value		0.046	Power	---		Power-50%		---	P-value		0.072
Stouffer's	Power		---		Power-50%		---	P-value		0.033	Power	0.568		Power-50%		0.622	P-value		0.107	Power	0.108		Power-50%		0.264	P-value		0.171

(a) Modified Shannon Index.
(b) Taxa richness calculations are explained in the methods.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Invertebrates							Rock								Perennials (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	8	0.31	0.31	11	2.85	1.31	-	-	0.110	8	82.04	12.76	11	95.80	2.07	-	-	0.423	8	0.00	0.00	11	1.25	1.13	-	-	0.225
51091C/51091	1	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	100.00	0.00	6	52.93	18.73	-	+	0.044	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	10	0.25	0.25	11	8.07	4.55	-	-	0.126	10	99.75	0.25	11	91.94	4.54	-	+	0.126	10	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			0.20	0.20		3.67	1.97		-			93.93	4.37		80.20	8.43		-			0.00	0.00		0.43	0.37		-	
Fisher's	Power		---		Power-50%		---	P-value		0.048	Power	---		Power-50%		---	P-value		0.034	Power	0.000		Power-50%		---	P-value		0.308
Stouffer's	Power		---		Power-50%		---	P-value		0.030	Power	---		Power-50%		---	P-value		0.058	Power	0.000		Power-50%		---	P-value		0.247
50389C/50389	2	7	1.26	1.26	11	3.87	1.33	-	-	0.093	7	71.44	17.38	11	86.37	8.46	-	-	0.530	7	0.00	0.00	11	1.14	1.14	-	-	0.341
51091C/51091	2	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	99.29	0.71	6	78.55	15.86	-	+	0.256	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	2	9	1.40	1.25	8	2.50	1.57	-	-	0.505	9	83.07	11.32	8	97.50	1.57	-	-	0.289	9	3.20	3.20	8	0.00	0.00	-	+	0.347
Habitat Means			0.90	0.87		2.13	0.97		-			84.60	9.80		87.50	8.67		-			1.07	1.07		0.37	0.37		-	
Fisher's	Power		0.236		Power-50%		0.012	P-value		0.113	Power	0.068		Power-50%		0.916	P-value		0.340	Power	---		Power-50%		---	P-value		0.505 y
Stouffer's	Power		---		Power-50%		---	P-value		0.084	Power	0.044		Power-50%		0.936	P-value		0.325	Power	---		Power-50%		---	P-value		0.529
50389C/50389	3	9	4.87	2.77	10	2.26	1.13	-	+	0.569	9	67.37	13.43	10	62.39	12.12	-	+	0.877	9	4.44	4.14	10	9.39	3.26	-	-	0.103
51091C/51091	3	11	0.00	0.00	6	0.22	0.22	-	-	0.363	11	84.89	8.76	6	99.80	0.20	-	-	0.127	11	2.50	2.50	6	0.00	0.00	-	-	0.341
62802C/50226	3	7	7.34	3.01	10	13.50	4.27	-	-	0.527	7	65.03	8.63	10	69.89	9.67	-	-	0.532	7	10.91	6.12	10	8.39	4.55	-	-	0.830
Habitat Means			4.07	1.93		5.33	1.87		-			72.43	10.27		77.37	7.33		-			5.93	4.23		5.93	2.63		-	
Fisher's	Power		0.057		Power-50%		0.320	P-value		0.345	Power	0.130		Power-50%		0.999	P-value		0.156	Power	0.010		Power-50%		0.185	P-value		0.493 y
Stouffer's	Power		0.069		Power-50%		0.339	P-value		0.289	Power	0.075		Power-50%		0.999	P-value		0.135	Power	0.014		Power-50%		0.281	P-value		0.614

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.97. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Coarse Textured. June 1991. Undisturbed. (Continued.)

		Annuals (A)								Ephemerals (AE)																
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000									
51091C/51091	1	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000									
62802C/50226	1	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
50389C/50389	2	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.00	0.00	-	o	1.000									
51091C/51091	2	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000									
62802C/50226	2	9	0.00	0.00	8	0.00	0.00	-	o	1.000	9	0.00	0.00	8	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
50389C/50389	3	9	0.00	0.00	10	13.26	6.74	-	-	0.040	9	0.00	0.00	10	1.39	0.63	-	-	0.043									
51091C/51091	3	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000									
62802C/50226	3	7	2.33	2.33	10	7.00	3.91	-	-	0.259	7	1.43	1.43	10	5.75	3.98	-	-	0.406									
Habitat Means			0.77	0.77		6.77	3.53		-			0.47	0.47		2.40	1.53		-										
Fisher's	Power		---		Power-50%		---	P-value		0.038	Power	---		Power-50%		---	P-value		0.057	Power	---		Power-50%		---	P-value		
Stouffer's	Power		---		Power-50%		---	P-value		0.030	Power	---		Power-50%		---	P-value		0.047	Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.98. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Coarse Textured. June 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta							Morphological Group: Bladed Greens								Bladed Greens (AE) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000
51091C/51091	1	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.00	0.00	-	o	1.000
51091C/51091	2	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	2	9	0.00	0.00	8	0.00	0.00	-	o	1.000	9	0.00	0.00	8	0.00	0.00	-	o	1.000	9	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	3	9	0.00	0.00	10	1.01	0.64	-	-	0.101	9	0.00	0.00	10	0.13	0.13	-	-	0.343	9	0.00	0.00	10	0.13	0.13	-	-	0.343
51091C/51091	3	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	3	7	3.40	3.40	10	0.38	0.38	-	+	0.504	7	0.90	0.90	10	0.38	0.38	-	+	0.669	7	0.90	0.90	10	0.38	0.38	-	+	0.669
Habitat Means			1.13	1.13		0.47	0.33		-			0.30	0.30		0.17	0.17		-			0.30	0.30		0.17	0.17		-	
Fisher's		Power	0.042		Power-50%		---	P-value		0.243 y	Power	---		Power-50%		---	P-value		0.455 y	Power	---		Power-50%		---	P-value		0.455 y
Stouffer's		Power	0.071		Power-50%		---	P-value		0.312	Power	---		Power-50%		---	P-value		0.399	Power	---		Power-50%		---	P-value		0.399

(a) Kornmannia, Monostroma, Ulva and Ulvaria.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Fine Filamentous Greens									Acrosiphonia sp. (A)									Cladophora sp. (AE)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000
51091C/51091	1	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.00	0.00	-	o	1.000
51091C/51091	2	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	2	9	0.00	0.00	8	0.00	0.00	-	o	1.000	9	0.00	0.00	8	0.00	0.00	-	o	1.000	9	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	3	9	0.00	0.00	10	0.38	0.27	-	-	0.174	9	0.00	0.00	10	0.26	0.17	-	-	0.168	9	0.00	0.00	10	0.00	0.00	-	o	1.000
51091C/51091	3	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	3	7	1.97	1.97	10	0.00	0.00	-	+	0.356	7	0.00	0.00	10	0.00	0.00	-	o	1.000	7	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.67	0.67		0.13	0.10		-			0.00	0.00		0.10	0.07		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.002		Power-50%		---	P-value		0.353 y	Power	0.006		Power-50%		---	P-value		0.259	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.000		Power-50%		---	P-value		0.434	Power	0.001		Power-50%		---	P-value		0.219	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.98. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Coarse Textured. June 1991. Undisturbed. (Continued.)

		Morphological Group: Tubular and Saccate Greens								Blidingia/Enteromorpha (AE) (a)																
Site Pair	Mwd	N	C	SE	N	Q	SE	CV	D	P	N	C	SE	N	Q	SE	CV	D	P	N	C	SE	N	Q	SE	CV	D	P
50389C/50389 1		8	0.00	0.00	11	0.00	0.00		o	1.000	8	0.00	0.00	11	0.00	0.00		o	1.000									
51091C/51091 1		7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000									
62802C/50226 1		10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o									
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
50389C/50389 2		7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.00	0.00	-	o	1.000									
51091C/51091 2		7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000									
62802C/50226 2		9	0.00	0.00	8	0.00	0.00	-	o	1.000	9	0.00	0.00	8	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o									
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
50389C/50389 3		9	0.00	0.00	10	0.50	0.33	-	-	0.168	9	0.00	0.00	10	0.50	0.33	-	-	0.168									
51091C/51091 3		11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000									
62802C/50226 3		7	0.54	0.54	10	0.00	0.00	-	+	0.356	7	0.54	0.54	10	0.00	0.00	-	+	0.356									
Habitat Means			0.17	0.17		0.17	0.10		-			0.17	0.17		0.17	0.10		-									
Fisher's	Power		0.006		Power-50%		---	P-value		0.346 y	Power	0.005		Power-50%		---	P-value		0.346 y	Power	---		Power-50%		---	P-value		
Stouffer's	Power		0.000		Power-50%		---	P-value		0.429	Power	0.000		Power-50%		---	P-value		0.429	Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.99. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Coarse Textured. June 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta							Morphological Group: Bladed Browns							Total Fucus gardneri (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	8	0.00	0.00	11	1.25	1.13	-	-	0.225	8	0.00	0.00	11	1.25	1.13	-	-	0.225	8	0.00	0.00	11	1.25	1.13	-	-	0.225
51091C/51091	1	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.43	0.37		-			0.00	0.00		0.43	0.37		-			0.00	0.00		0.43	0.37		-	
Fisher's		Power	0.000		Power-50%		---	P-value		0.308	Power	0.000		Power-50%		---	P-value		0.308	Power	0.000		Power-50%		---	P-value		0.308
Stouffer's		Power	0.000		Power-50%		---	P-value		0.247	Power	0.000		Power-50%		---	P-value		0.247	Power	0.000		Power-50%		---	P-value		0.247
50389C/50389	2	7	0.00	0.00	11	1.14	1.14	-	-	0.341	7	0.00	0.00	11	1.14	1.14	-	-	0.341	7	0.00	0.00	11	1.14	1.14	-	-	0.341
51091C/51091	2	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	2	9	3.20	3.20	8	0.00	0.00	-	+	0.347	9	3.20	3.20	8	0.00	0.00	-	+	0.347	9	3.20	3.20	8	0.00	0.00	-	+	0.347
Habitat Means			1.07	1.07		0.37	0.37		-			1.07	1.07		0.37	0.37		-			1.07	1.07		0.37	0.37		-	
Fisher's		Power	---		Power-50%		---	P-value		0.505 y	Power	---		Power-50%		---	P-value		0.505 y	Power	---		Power-50%		---	P-value		0.505 y
Stouffer's		Power	---		Power-50%		---	P-value		0.529	Power	---		Power-50%		---	P-value		0.529	Power	---		Power-50%		---	P-value		0.529
50389C/50389	3	9	4.44	4.14	10	13.14	5.09	-	-	0.043	9	4.44	4.14	10	11.39	4.76	-	-	0.097	9	4.44	4.14	10	9.39	3.26	-	-	0.103
51091C/51091	3	11	2.50	2.50	6	0.00	0.00	-	-	0.341	11	2.50	2.50	6	0.00	0.00	-	+	0.341	11	2.50	2.50	6	0.00	0.00	-	-	0.341
62802C/50226	3	7	11.80	6.66	10	12.88	6.05	-	-	0.877	7	10.91	6.12	10	7.51	4.51	-	+	0.730	7	10.91	6.12	10	7.51	4.51	-	+	0.730
Habitat Means			6.23	4.43		8.67	3.73		-			5.93	4.23		6.30	3.10		+			5.93	4.23		5.63	2.60		-	
Fisher's		Power	0.133		Power-50%		0.178	P-value		0.138	Power	0.015		Power-50%		0.198	P-value		0.463xy	Power	0.020		Power-50%		0.172	P-value		0.462
Stouffer's		Power	0.090		Power-50%		0.280	P-value		0.227	Power	0.018		Power-50%		0.311	P-value		0.588	Power	0.024		Power-50%		0.282	P-value		0.581

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Adult Fucus gardneri (P) (> 2cm)								Juvenile Fucus gardneri (P) (<= 2cm)								Fucus Stipes (P) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	8	0.00	0.00	11	0.80	0.68	-	-	0.206	8	0.00	0.00	11	0.45	0.45	-		0.341	8	0.00	0.00	11	0.00	0.00	-	o	1.000
51091C/51091	1	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.27	0.23		-			0.00	0.00		0.17	0.17		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.001		Power-50%		---	P-value		0.292	Power	---		Power-50%		---	P-value		0.389	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.000		Power-50%		---	P-value		0.238	Power	---		Power-50%		---	P-value		0.296	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	7	0.00	0.00	11	1.14	1.14	-	-	0.341	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.00	0.00	-	o	1.000
51091C/51091	2	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	2	9	3.20	3.20	8	0.00	0.00	-	+	0.347	9	0.00	0.00	8	0.00	0.00	-	o	1.000	9	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			1.07	1.07		0.37	0.37		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.505 y	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.529	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	3	9	4.44	4.14	10	9.39	3.26	-	-	0.103	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	1.11	1.11	10	0.00	0.00	-	+	0.347
51091C/51091	3	11	2.50	2.50	6	0.00	0.00	-	+	0.341	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	3	7	10.74	6.00	10	7.51	4.51	-	+	0.740	7	0.19	0.19	10	0.00	0.00	-	+	0.356	7	0.19	0.19	10	0.00	0.00	-	+	0.356
Habitat Means			5.87	4.20		5.63	2.60		+			0.07	0.07		0.00	0.00		+			0.43	0.43		0.00	0.00		+	
Fisher's		Power	0.013		Power-50%		0.178	P-value		0.465	Power	---		Power-50%		---	P-value		0.399	Power	---		Power-50%		---	P-value		0.214
Stouffer's		Power	0.022		Power-50%		0.281	P-value		0.584	Power	---		Power-50%		---	P-value		0.275	Power	---		Power-50%		---	P-value		0.130

Table C-5.99. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Coarse Textured. June 1991. Undisturbed. (Continued.)

Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
			Morphological Group: Coarse Filamentous Browns								Myelophycus/Scytosiphon (A) (a)									Morphological Group: Fine Filamentous Browns								
50[illegible]89C/50389	1	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000
51[illegible]91C/51091	1	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62[illegible]02C/50226	1	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50[illegible]89C/50389	2	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.00	0.00	-	o	1.000
51[illegible]91C/51091	2	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62[illegible]02C/50226	2	9	0.00	0.00	8	0.00	0.00	-	o	1.000	9	0.00	0.00	8	0.00	0.00	-	o	1.000	9	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50[illegible]89C/50389	3	9	0.00	0.00	10	1.00	0.55	-	-	0.087	9	0.00	0.00	10	1.00	0.55	-	-	0.087	9	0.00	0.00	10	0.76	0.43	-	-	0.090
51[illegible]91C/51091	3	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000
62[illegible]02C/50226	3	7	0.90	0.90	10	0.00	0.00	-	+	0.356	7	0.90	0.90	10	0.00	0.00	-	+	0.356	7	0.00	0.00	10	5.38	3.63	-	-	0.110
Habitat Means			0.30	0.30		0.33	0.20		-			0.30	0.30		0.33	0.20		-			0.00	0.00		2.07	1.33		-	
Fisher's	Power		0.030		Power-50%		---	P-value		0.234	Power	0.026		Power-50%		---	P-value		0.234	Power	---		Power-50%		---	P-value		0.037
Stouffer's	Power		0.002		Power-50%		---	P-value		0.357	Power	0.002		Power-50%		---	P-value		0.357	Power	---		Power-50%		---	P-value		0.023

(Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
			Fine Filamentous Browns (AE) (b)																									
50[illegible]89C/50389	1	8	0.00	0.00	11	0.00	0.00	-	o	1.000																		
51[illegible]91C/51091	1	7	0.00	0.00	6	0.00	0.00	-	o	1.000																		
62[illegible]02C/50226	1	10	0.00	0.00	11	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
50[illegible]89C/50389	2	7	0.00	0.00	11	0.00	0.00	-	o	1.000																		
51[illegible]91C/51091	2	7	0.00	0.00	6	0.00	0.00	-	o	1.000																		
62[illegible]02C/50226	2	9	0.00	0.00	8	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
50[illegible]89C/50389	3	9	0.00	0.00	10	0.76	0.43	-	-	0.090																		
51[illegible]91C/51091	3	11	0.00	0.00	6	0.00	0.00	-	o	1.000																		
62[illegible]02C/50226	3	7	0.00	0.00	10	5.38	3.63	-	-	0.110																		
Habitat Means			0.00	0.00		2.07	1.33		-																			
Fisher's	Power		---		Power-50%		---	P-value		0.037	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's	Power		---		Power-50%		---	P-value		0.023	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

(b) Elachista, Ectocarpus and Pilayella.

x At least one site pair p-value < 0.100 in opposite
y Direction of difference between habitat means is di
z Only one site pair.

Table C-5.100. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Coarse Textured. June 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group: Bladed Reds								Gigartinaceae Group (P) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000
51091C/51091	1	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.655
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500
50389C/50389	2	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.00	0.00	-	o	1.000
51091C/51091	2	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	2	9	0.00	0.00	8	0.00	0.00	-	o	1.000	9	0.00	0.00	8	0.00	0.00	-	o	1.000	9	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.655
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500
50389C/50389	3	9	0.00	0.00	10	8.63	5.33	-	-	0.069	9	0.00	0.00	10	1.13	1.13	-	-	0.343	9	0.00	0.00	10	0.00	0.00	-	o	1.000
51091C/51091	3	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	3	7	0.00	0.00	10	2.13	1.24	-	-	0.095	7	0.00	0.00	10	0.00	0.00	-	o	1.000	7	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		3.57	2.17		-			0.00	0.00		0.37	0.37		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.027	Power	---		Power-50%	---	P-value			0.391	Power	---		Power-50%	---	P-value			0.655
Stouffer's		Power	---		Power-50%	---	P-value			0.018	Power	---		Power-50%	---	P-value			0.297	Power	---		Power-50%	---	P-value			0.500

(a) Chondrus, Iridaea, Mastocarpus and Rhodoglossum.
x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Palmaria spp. (A)								Porphyra sp. (A)								Morphological Group: Coarse Filamentous Reds							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000
51091C/51091	1	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.655
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500
50389C/50389	2	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.00	0.00	-	o	1.000
51091C/51091	2	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	2	9	0.00	0.00	8	0.00	0.00	-	o	1.000	9	0.00	0.00	8	0.00	0.00	-	o	1.000	9	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.655
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500
50389C/50389	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	1.13	1.13	-	-	0.343	9	0.00	0.00	10	0.00	0.00	-	o	1.000
51091C/51091	3	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	3	7	0.00	0.00	10	0.00	0.00	-	o	1.000	7	0.00	0.00	10	0.00	0.00	-	o	1.000	7	0.00	0.00	10	1.50	1.00	-	-	0.105
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.37	0.37		-			0.00	0.00		0.50	0.33		-	
Fisher's		Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.391	Power	0.012		Power-50%	---	P-value			0.193
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.297	Power	0.006		Power-50%	---	P-value			0.147

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.100. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Coarse Textured. June 1991. Undisturbed. (Continued.)

		Endocladia muricata (P)								Gloiopeltis furcata (A)								Morphological Group: Saccate Reds							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000
51091C/51091	1	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.00	0.00	-	o	1.000
51091C/51091	2	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	2	9	0.00	0.00	8	0.00	0.00	-	o	1.000	9	0.00	0.00	8	0.00	0.00	-	o	1.000	9	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.38	0.27	-	-	0.174
51091C/51091	3	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	3	7	0.00	0.00	10	0.25	0.25	-	-	0.343	7	0.00	0.00	10	1.25	1.00	-	-	0.194	7	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.10	0.10		-			0.00	0.00		0.43	0.33		-			0.00	0.00		0.13	0.10		-	
Fisher's		Power	---		Power-50%		---	P-value		0.391	Power	0.001		Power-50%		---	P-value		0.282	Power	0.004		Power-50%		---	P-value		0.265
Stouffer's		Power	---		Power-50%		---	P-value		0.270	Power	0.000		Power-50%		---	P-value		0.200	Power	0.000		Power-50%		---	P-value		0.222

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Halosaccion glandiforme (A)								Morphological Group: Fine Filamentous Reds								Polysiphonia/Pterosiphonia (A) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000
51091C/51091	1	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.00	0.00	-	o	1.000
51091C/51091	2	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	2	9	0.00	0.00	8	0.00	0.00	-	o	1.000	9	0.00	0.00	8	0.00	0.00	-	o	1.000	9	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	3	9	0.00	0.00	10	0.38	0.27	-	-	0.174	9	0.00	0.00	10	7.13	5.29	-	-	0.099	9	0.00	0.00	10	7.13	5.29	-	-	0.099
51091C/51091	3	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	3	7	0.00	0.00	10	0.00	0.00	-	o	1.000	7	0.00	0.00	10	0.00	0.00	-	o	1.000	7	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.13	0.10		-			0.00	0.00		2.37	1.77		-			0.00	0.00		2.37	1.77		-	
Fisher's		Power	0.005		Power-50%		---	P-value		0.265	Power	0.010		Power-50%		---	P-value		0.187	Power	0.009		Power-50%		---	P-value		0.187
Stouffer's		Power	0.000		Power-50%		---	P-value		0.222	Power	0.000		Power-50%		---	P-value		0.177	Power	0.001		Power-50%		---	P-value		0.177

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.100. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Coarse Textured. June 1991. Undisturbed. (Continued.)

		Morphological Group: Crustose Reds								Hildenbrandia sp. (P)																			
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000									
51091C/51091	1	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000									
62802C/50226	1	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
50389C/50389	2	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.00	0.00	-	o	1.000									
51091C/51091	2	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000									
62802C/50226	2	9	0.00	0.00	8	0.00	0.00	-	o	1.000	9	0.00	0.00	8	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
50389C/50389	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000									
51091C/51091	3	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000									
62802C/50226	3	7	0.00	0.00	10	0.63	0.63	-	-	0.343	7	0.00	0.00	10	0.63	0.63	-	-	0.343									
Habitat Means			0.00	0.00		0.20	0.20		-			0.00	0.00		0.20	0.20		-										
Fisher's		Power	---		Power-50%		---	P-value		0.391	Power	---		Power-50%		---	P-value		0.391	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.270	Power	---		Power-50%		---	P-value		0.270	Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.101. Algal Percent Cover. Invertebrates. Cook Inlet/Kenai. Coarse Textured. June 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Balanomorpha								Lottiidae								Mytilus							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	8	0.31	0.31	11	2.74	1.23	-	-	0.110	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000
51091C/51091	1	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	10	0.25	0.25	11	8.07	4.55	-	-	0.126	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			0.20	0.20		3.60	1.93		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.048	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.029	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	7	0.00	0.00	11	3.87	1.33	-	-	0.004	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	1.26	1.26	11	0.00	0.00	-	-	0.356
51091C/51091	2	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	2	9	1.40	1.25	8	2.35	1.54	-	-	0.536	9	0.00	0.00	8	0.00	0.00	-	o	1.000	9	0.00	0.00	8	0.16	0.16	-	-	0.351
Habitat Means			0.47	0.43		2.10	0.93		-			0.00	0.00		0.00	0.00		o			0.43	0.43		0.07	0.07		-	
Fisher's		Power	---		Power-50%		---	P-value		0.011	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.511 y
Stouffer's		Power	---		Power-50%		---	P-value		0.021	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.466
50389C/50389	3	9	0.83	0.83	10	1.88	1.04	-	-	0.311	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	4.03	2.04	10	0.13	0.13	-	+	0.068
51091C/51091	3	11	0.00	0.00	6	0.22	0.22	-	-	0.363	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	3	7	7.17	2.91	10	7.75	2.75	-	-	0.885	7	0.00	0.00	10	0.00	0.00	-	o	1.000	7	0.19	0.19	10	5.75	2.42	-	-	0.036
Habitat Means			2.67	1.23		3.30	1.33		-			0.00	0.00		0.00	0.00		o			1.40	0.73		1.97	0.83		-	
Fisher's		Power	0.194		Power-50%		0.137	P-value		0.187	Power	---		Power-50%		---	P-value		0.655	Power	0.048		Power-50%		0.179	P-value		0.149x
		Power	0.260		Power-50%		0.141	P-value		0.129	Power	---		Power-50%		---	P-value		0.500	Power	0.004		Power-50%		0.166	P-value		0.372

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall te
z Only one site pair.

		Littorinidae																									
51091C/51091	1	7	0.00	0.00	6	0.00	0.00	-	o	1.000																	
62802C/50226	1	10	0.00	0.00	11	0.00	0.00	-	o	1.000																	
Habitat Means			0.00	0.00		0.03	0.03		-																		
Fisher's		Power	---		Power-50%		---	P-value		0.389	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value	
Stouffer's		Power	---		Power-50%		---	P-value		0.296	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value	
50389C/50389	2	7	0.00	0.00	11	0.00	0.00	-	o	1.000																	
51091C/51091	2	7	0.00	0.00	6	0.00	0.00	-	o	1.000																	
62802C/50226	2	9	0.00	0.00	8	0.00	0.00	-	o	1.000																	
Habitat Means			0.00	0.00		0.00	0.00		o																		
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value	
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value	
50389C/50389	3	9	0.00	0.00	10	0.25	0.25	-	-	0.343																	
51091C/51091	3	11	0.00	0.00	6	0.00	0.00	-	o	1.000																	
62802C/50226	3	7	0.00	0.00	10	0.00	0.00	-	o	1.000																	
Habitat Means			0.00	0.00		0.10	0.10		-																		
Fisher's		Power	---		Power-50%		---	P-value		0.391	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value	
					Power-50%		---	P-value		0.297	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value	

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.102. Algal Percent Cover. Substrates. Cook Inlet/Kenai. Coarse Textured. June 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Rock								Mud								Sand							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	8	82.04	12.76	11	95.80	2.07	-	-	0.423	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	17.66	12.82	11	0.00	0.00	-	+	0.205
51091C/51091	1	7	100.00	0.00	6	52.93	18.73	-	+	0.044	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	47.10	18.74	-	-	0.045
62802C/50226	1	10	99.75	0.25	11	91.94	4.54	-	+	0.126	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			93.93	4.37		80.20	8.43		+			0.00	0.00		0.00	0.00		o			5.90	4.27		15.70	6.23		-	
Fisher's		Power	---		Power-50%		---	P-value		0.034	Power	---		Power-50%		---	P-value		0.655	Power	0.072		Power-50%		0.012	P-value		0.162
Stouffer's		Power	---		Power-50%		---	P-value		0.058	Power	---		Power-50%		---	P-value		0.500	Power	0.002		Power-50%		0.002	P-value		0.374
50389C/50389	2	7	71.44	17.38	11	86.37	8.46	-	-	0.530	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	27.33	17.67	11	8.64	8.64	-	+	0.289
51091C/51091	2	7	99.29	0.71	6	78.55	15.86	-	+	0.256	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.71	0.71	6	21.47	15.88	-	-	0.256
62802C/50226	2	9	83.07	11.32	8	97.50	1.57	-	-	0.289	9	0.00	0.00	8	0.00	0.00	-	o	1.000	9	12.22	11.03	8	0.00	0.00	-	-	0.261
Habitat Means			84.60	9.80		87.50	8.67		-			0.00	0.00		0.00	0.00		o			13.40	9.80		10.03	8.17		-	
Fisher's		Power	0.059		Power-50%		0.931	P-value		0.340	Power	---		Power-50%		---	P-value		0.655	Power	0.051		Power-50%		0.199	P-value		0.222
Stouffer's		Power	0.041		Power-50%		0.946	P-value		0.325	Power	---		Power-50%		---	P-value		0.500	Power	0.046		Power-50%		0.368	P-value		0.229
50389C/50389	3	9	67.37	13.43	10	62.39	12.12	-	+	0.877	9	0.00	0.00	10	12.64	6.71	-	-	0.085	9	22.22	14.70	10	0.00	0.00	-	+	0.169
51091C/51091	3	11	84.89	8.76	6	99.80	0.20	-	-	0.127	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	12.62	8.77	6	0.00	0.00	-	+	0.175
62802C/50226	3	7	65.03	8.63	10	69.89	9.67	-	-	0.532	7	0.00	0.00	10	1.25	1.25	-	-	0.343	7	12.33	8.15	10	0.00	0.00	-	+	0.176
Habitat Means			72.43	10.27		77.37	7.33		-			0.00	0.00		4.63	2.67		-			15.70	10.57		0.00	0.00		+	
Fisher's		Power	0.119		Power-50%		0.998	P-value		0.156	Power	---		Power-50%		---	P-value		0.082	Power	---		Power-50%		---	P-value		0.023
Stouffer's		Power	0.071		Power-50%		1.000	P-value		0.135	Power	---		Power-50%		---	P-value		0.057	Power	---		Power-50%		---	P-value		0.009

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Shell Fragments								Zostera/Phyllospadix								Sand and Mud							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	8	0.00	0.00	11	0.12	0.12	-	-	0.341	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	17.66	12.82	11	0.12	0.12	-	+	0.221
51091C/51091	1	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	47.10	18.74	-	-	0.045
62802C/50226	1	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.03	0.03		-			0.00	0.00		0.00	0.00		o			5.90	4.27		15.73	6.27		-	
Fisher's		Power	---		Power-50%		---	P-value		0.389	Power	---		Power-50%		---	P-value		0.655	Power	0.083		Power-50%		0.013	P-value		0.161
Stouffer's		Power	---		Power-50%		---	P-value		0.296	Power	---		Power-50%		---	P-value		0.500	Power	0.026		Power-50%		0.001	P-value		0.365
50389C/50389	2	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	27.33	17.67	11	8.64	8.64	-	+	0.289
51091C/51091	2	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.00	0.00	6	0.00	0.00	-	o	1.000	7	0.71	0.71	6	21.47	15.88	-	-	0.256
62802C/50226	2	9	0.14	0.14	8	0.00	0.00	-	+	0.347	9	0.00	0.00	8	0.00	0.00	-	o	1.000	9	12.37	11.01	8	0.00	0.00	-	+	0.232
Habitat Means			0.03	0.03		0.00	0.00		+			0.00	0.00		0.00	0.00		o			13.47	9.80		10.03	8.17		+	
Fisher's		Power	---		Power-50%		---	P-value		0.393	Power	---		Power-50%		---	P-value		0.655	Power	0.077		Power-50%		0.278	P-value		0.207
Stouffer's		Power	---		Power-50%		---	P-value		0.271	Power	---		Power-50%		---	P-value		0.500	Power	0.081		Power-50%		0.473	P-value		0.216
50389C/50389	3	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	0.00	0.00	10	0.00	0.00	-	o	1.000	9	22.22	14.70	10	12.64	6.71	-	-	0.585
51091C/51091	3	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	0.00	0.00	6	0.00	0.00	-	o	1.000	11	12.62	8.77	6	0.00	0.00	-	+	0.175
62802C/50226	3	7	0.00	0.00	10	0.00	0.00	-	o	1.000	7	0.00	0.00	10	0.00	0.00	-	o	1.000	7	12.33	8.15	10	1.25	1.25	-	+	0.263
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			15.70	10.57		4.63	2.67		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.077
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.042

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.102. Algal Percent Cover. Substrates. Cook Inlet/Kenai. Coarse Textured. June 1991. Undisturbed. (Continued.)

Site Pair	Mvd	Total Substrate N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	8	99.69	0.31	11	95.92	2.04	-	+	0.077																		
51091C/51091	1	7	100.00	0.00	6	100.00	0.00	-	o	1.000																		
62802C/50226	1	10	99.75	0.25	11	91.94	4.54	-	+	0.126																		
Habitat Means			99.83	0.20		95.93	2.17		+																			
Fisher's		Power	---		Power-50%		---	P-value		0.037	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.024	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
50389C/50389	2	7	98.76	1.24	11	95.01	2.37	-	-	0.105																		
51091C/51091	2	7	100.00	0.00	6	100.00	0.00	-	o	1.000																		
62802C/50226	2	9	95.42	4.43	8	97.50	1.57	-	-	0.958																		
Habitat Means			98.07	1.87		97.50	1.33		+																			
Fisher's		Power	0.108		Power-50%		1.000	P-value		0.198	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.059		Power-50%		1.000	P-value		0.190	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
50389C/50389	3	9	89.59	4.72	10	75.01	8.18	-	+	0.130																		
51091C/51091	3	11	97.50	2.50	6	99.80	0.20	-	-	0.561																		
62802C/50226	3	7	77.36	9.91	10	71.14	9.11	-	+	0.763																		
Habitat Means			88.17	5.70		81.97	5.83		+																			
Fisher's		Power	0.348		Power-50%		1.000	P-value		0.234	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.219		Power-50%		1.000	P-value		0.227	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.103. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Estuarine. May 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Algal Diversity Index (a)									Algal Taxa Richness (b)									Total Algae								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	9	0.21	0.06	11	0.02	0.02	-	+	0.015	9	2.44	0.38	11	0.64	0.20	-	+	0.000	9	34.74	9.52	11	11.94	5.15	-	+	0.022
50981C/50221	1	8	0.06	0.04	11	0.10	0.04	-	-	0.496	8	1.50	0.38	11	1.45	0.16	-	+	0.903	8	45.94	13.57	11	35.72	6.25	-	+	0.515
50981C/50981	1	8	0.06	0.04	10	0.13	0.05	-	-	0.342	8	1.50	0.38	10	1.20	0.39	-	+	0.594	8	45.94	13.57	10	13.13	4.88	-	+	0.031
Habitat Means			0.11	0.05		0.08	0.04		-			1.81	0.38		1.10	0.25		+			42.17	12.23		20.23	5.47		+	
Fisher's		Power	0.057		Power-50%		0.800	P-value		0.386xy	Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.003
Stouffer's		Power	0.003		Power-50%		0.857	P-value		0.678	Power	---		Power-50%		---	P-value		0.007	Power	---		Power-50%		---	P-value		0.002
C15.1C/C15.1	2	8	0.27	0.07	10	0.03	0.03	-	+	0.005	8	3.13	0.48	10	1.00	0.26	-	-	0.001	8	54.55	12.27	10	20.84	8.61	-	-	0.023
50981C/50221	2	7	0.27	0.07	10	0.13	0.05	-	+	0.123	7	3.43	0.65	10	1.60	0.34	-	+	0.016	7	39.13	9.69	10	58.94	8.66	-	-	0.237
50981C/50981	2	7	0.27	0.07	11	0.11	0.04	-	+	0.062	7	3.43	0.65	11	1.73	0.33	-	+	0.020	7	39.13	9.69	11	33.43	10.40	-	+	0.565
Habitat Means			0.27	0.07		0.09	0.04		+			3.33	0.59		1.44	0.31		+			44.27	10.57		37.70	9.23		+	
Fisher's		Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.068
Stouffer's		Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.000	Power	0.364		Power-50%		0 957	P-value		0.168
C15.1C/C15.1	3	1	0.48	--	6	0.12	0.05	-	+	---	1	3.00	--	6	1.67	0.42	-	+	---	1	95.00	--	6	20.10	8.68	-	+	---
50981C/50221	3	5	0.42	0.06	2	0.38	0.05	-	+	0.750	5	4.60	0.68	2	3.00	0.00	-	+	0.078	5	60.52	14.31	2	28.15	0.65	-	-	0.250
50981C/50981	3	5	0.42	0.06	7	0.09	0.05	-	+	0.003	5	4.60	0.68	7	2.00	0.58	-	+	0.015	5	60.52	14.31	7	40.57	10.67	-	-	0.222
Habitat Means			0.44	0.06		0.20	0.05		+			4.07	0.68		2.22	0.33		-			72.00	14.30		29.63	6.70		-	
Fisher's		Power	---		Power-50%		---	P-value		0.004	Power	---		Power-50%		---	P-value		0.003	Power	---		Power-50%		---	P-value		0.073
Stouffer's		Power	---		Power-50%		---	P-value		0.010	Power	---		Power-50%		---	P-value		0.002	Power	---		Power-50%		---	P-value		0.047

(a) Modified Shannon Index.
(b) Taxa richness calculations are explained in the methods.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Invertebrates									Rock									Perennials (P)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	9	0.00	0.00	11	13.87	5.79	-	-	0.009	9	60.57	8.56	11	73.31	8.74	-	-	0.243	9	14.32	4.93	11	11.25	4.82	-	+	0.343
50981C/50221	1	8	0.96	0.46	11	0.63	0.57	-	+	0.315	8	50.96	12.91	11	42.19	6.92	-	+	0.671	8	9.39	5.95	11	34.69	6.55	-	-	0.005
50981C/50981	1	8	0.96	0.46	10	3.76	2.27	-	-	0.590	8	50.96	12.91	10	81.64	6.28	-	-	0.029	8	9.39	5.95	10	8.38	3.92	-	+	0.928
Habitat Means			0.67	0.33		6.10	2.90		-			54.20	11.47		65.70	7.30		-			11.03	5.63		18.13	5.10		+	
Fisher's		Power	---		Power-50%		---	P-value		0.034	Power	---		Power-50%		---	P-value		0.036	Power	0.020		Power-50%		0.547	P-value		0.535xy
Stouffer's		Power	0.244		Power-50%		0.652	P-value		0.107	Power	---		Power-50%		---	P-value		0.045	Power	0.002		Power-50%		0.579	P-value		0.843
C15.1C/C15.1	2	8	1.73	1.23	10	23.06	8.06	-	-	0.007	8	43.76	11.67	10	53.65	8.00	-	-	0.383	8	35.40	8.95	10	19.34	8.47	-	-	0.128
50981C/50221	2	7	2.24	1.09	10	3.83	2.93	-	-	0.924	7	46.80	9.73	10	24.98	9.98	-	+	0.194	7	25.46	9.55	10	50.01	9.67	-	-	0.132
50981C/50981	2	7	2.24	1.09	11	1.25	0.43	-	+	0.576	7	46.80	9.73	11	55.12	13.15	-	-	0.596	7	25.46	9.55	11	27.47	9.29	-	-	0.997
Habitat Means			2.03	1.13		9.40	3.80		-			45.80	10.37		44.60	10.40		-			28.80	9.40		32.27	9.17		-	
Fisher's		Power	---		Power-50%		---	P-value		0.034	Power	0.014		Power-50%		0.878	P-value		0.431 y	Power	0.040		Power-50%		0.572	P-value		0.324
Stouffer's		Power	---		Power-50%		---	P-value		0.097	Power	0.002		Power-50%		0.912	P-value		0.476	Power	0.029		Power-50%		0.595	P-value		0.503
C15.1C/C15.1	3	1	0.00	--	6	7.92	4.35	-	-	---	1	5.00	--	6	68.23	9.81	-	-	---	1	35.00	--	6	11.78	6.44	-	-	---
50981C/50221	3	5	3.38	1.51	2	9.10	4.70	-	-	0.207	5	23.40	9.45	2	62.55	3.75	-	-	0.104	5	16.76	6.14	2	10.95	0.95	-	-	0.738
50981C/50981	3	5	3.38	1.51	7	1.73	0.78	-	+	0.376	5	23.40	9.45	7	51.06	13.45	-	-	0.133	5	16.76	6.14	7	36.10	8.51	-	-	0.117
Habitat Means			2.27	1.50		6.23	3.30		-			17.27	9.50		60.63	9.03		-			22.87	6.10		19.63	5.30		-	
Fisher's		Power	0.208		Power-50%		0.057	P-value		0.292	Power	---		Power-50%		---	P-value		0.023	Power	0.197		Power-50%		0.145	P-value		0.159 y
Stouffer's		Power	0.132		Power-50%		0.009	P-value		0.395	Power	---		Power-50%		---	P-value		0.014	Power	0.200		Power-50%		0.195	P-value		0.191

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.103. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Estuarine. May 1991. Undisturbed. (Continued.)

		Annuals (A)								Ephemerals (AE)															
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	9	20.43	9.11	11	0.68	0.68	-	+	0.018	9	20.43	9.11	11	0.00	0.00	-	+	0.013									
50981C/50221	1	8	36.58	15.18	11	1.03	0.81	-	+	0.042	8	36.58	15.18	11	1.03	0.81	-	+	0.042									
50981C/50981	1	8	36.58	15.18	10	4.76	2.16	-	+	0.091	8	36.58	15.18	10	4.76	2.16	-	+	0.091									
Habitat Means			31.20	13.17		2.17	1.23		+			31.20	13.17		1.93	1.00		+										
Fisher's	Power		---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		
Stouffer's	Power		---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		
C15.1C/C15.1	2	8	19.16	8.33	10	1.50	1.25	-	+	0.021	8	19.07	8.33	10	0.00	0.00	-	+	0.011									
50981C/50221	2	7	13.67	6.58	10	5.44	2.76	-	+	0.126	7	12.43	6.72	10	4.19	2.68	-	+	0.109									
50981C/50981	2	7	13.67	6.58	11	5.95	4.45	-	+	0.148	7	12.43	6.72	11	5.95	4.45	-	+	0.227									
Habitat Means			15.53	7.17		4.30	2.87		+			14.63	7.23		3.40	2.40		+										
Fisher's	Power		---		Power-50%		---	P-value		0.003	Power	---		Power-50%		---	P-value		0.002	Power	---		Power-50%		---	P-value		
Stouffer's	Power		---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		
C15.1C/C15.1	3	1	60.00	--	6	8.35	7.35	-	+	---	1	60.00	--	6	0.00	0.00	-	+	---									
50981C/50221	3	5	43.50	18.54	2	17.20	0.30	-	+	0.456	5	42.52	18.79	2	17.20	0.30	-	+	0.484									
50981C/50981	3	5	43.50	18.54	7	4.47	2.67	-	+	0.014	5	42.52	18.79	7	4.47	2.67	-	+	0.017									
Habitat Means			49.00	18.50		10.03	3.47		+			48.33	18.80		7.23	1.00		+										
Fisher's	Power		---		Power-50%		---	P-value		0.012	Power	---		Power-50%		---	P-value		0.014	Power	---		Power-50%		---	P-value		
Stouffer's	Power		---		Power-50%		---	P-value		0.012	Power	---		Power-50%		---	P-value		0.014	Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.104. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Estuarine. May 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group: Bladed Greens								Bladed Greens (AE) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	9	10.71	3.54	11	0.00	0.00	-	+	0.005	9	0.70	0.37	11	0.00	0.00	-	+	0.085	9	0.70	0.37	11	0.00	0.00	-	+	0.085
50981C/50221	1	8	0.64	0.48	11	1.03	0.81	-	-	0.943	8	0.48	0.48	11	0.00	0.00	-	+	0.351	8	0.48	0.48	11	0.00	0.00	-	+	0.351
50981C/50981	1	8	0.64	0.48	10	4.76	2.16	-	-	0.122	8	0.48	0.48	10	0.25	0.25	-	+	0.763	8	0.48	0.48	10	0.25	0.25	-	+	0.763
Habitat Means			3.97	1.50		1.93	1.00		+			0.57	0.47		0.10	0.10		+			0.57	0.47		0.10	0.10		+	
Fisher's		Power	0.044			Power-50%	0.536	P-value		0.311xy	Power	---			Power-50%	---	P-value		0.068	Power	---			Power-50%	---	P-value		0.068
Stouffer's		Power	0.000			Power-50%	0.632	P-value		0.755	Power	---			Power-50%	---	P-value		0.044	Power	---			Power-50%	---	P-value		0.044
C15.1C/C15.1	2	8	7.91	3.36	10	0.00	0.00	-	+	0.012	8	3.69	2.45	10	0.00	0.00	-	+	0.078	8	3.69	2.45	10	0.00	0.00	-	+	0.078
50981C/50221	2	7	3.31	1.01	10	7.38	4.02	-	-	0.961	7	1.89	0.88	10	0.94	0.71	-	-	0.243	7	1.89	0.88	10	0.94	0.71	-	+	0.243
50981C/50981	2	7	3.31	1.01	11	2.63	1.34	-	+	0.359	7	1.89	0.88	11	1.75	1.34	-	+	0.577	7	1.89	0.88	11	1.75	1.34	-	+	0.577
Habitat Means			4.83	1.80		3.33	1.77		+			2.50	1.43		0.90	0.67		+			2.50	1.43		0.90	0.67		+	
Fisher's		Power	---			Power-50%	---	P-value		0.020	Power	---			Power-50%	---	P-value		0.040	Power	---			Power-50%	---	P-value		0.040
Stouffer's		Power	---			Power-50%	---	P-value		0.025	Power	---			Power-50%	---	P-value		0.022	Power	---			Power-50%	---	P-value		0.022
C15.1C/C15.1	3	1	27.50	--	6	0.00	0.00	-	+	---	1	27.50	--	6	0.00	0.00	-	+	---	1	27.50	--	6	0.00	0.00	-	+	---
50981C/50221	3	5	19.38	9.88	2	15.05	1.25	-	+	0.969	5	18.50	9.55	2	15.05	1.25	-	+	0.986	5	18.50	9.55	2	15.05	1.25	-	+	0.986
50981C/50981	3	5	19.38	9.88	7	2.93	2.04	-	-	0.033	5	18.50	9.55	7	2.57	1.73	-	+	0.032	5	18.50	9.55	7	2.57	1.73	-	+	0.032
Habitat Means			22.10	9.90		6.00	1.10		+			21.50	9.60		5.90	1.00		-			21.50	9.60		5.90	1.00		+	
Fisher's		Power	---			Power-50%	---	P-value		0.047	Power	---			Power-50%	---	P-value		0.046	Power	---			Power-50%	---	P-value		0.046
Stouffer's		Power	---			Power-50%	---	P-value		0.063	Power	---			Power-50%	---	P-value		0.063	Power	---			Power-50%	---	P-value		0.063

(a) Kornmannia, Monostroma, Ulva and Ulvaria.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Fine Filamentous Greens								Cladophora sp. (AE)								Ulothrix sp. (AE)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	9	5.14	2.86	11	0.00	0.00	-	+	0.090	9	0.00	0.00	11	0.00	0.00	-	o	1.000	9	0.00	0.00	11	0.00	0.00	-	o	1.000
50981C/50221	1	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000
50981C/50981	1	8	0.00	0.00	10	3.26	2.00	-	-	0.100	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			1.70	0.97		1.10	0.67		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.005			Power-50%	0.024	P-value		0.262x	Power	---			Power-50%	---	P-value		0.655	Power	---			Power-50%	---	P-value		0.655
Stouffer's		Power	0.000			Power-50%	0.002	P-value		0.489	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500
C15.1C/C15.1	2	8	0.48	0.33	10	0.00	0.00	-	+	0.177	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000
50981C/50221	2	7	0.19	0.19	10	3.50	3.50	-	-	0.488	7	0.19	0.19	10	0.00	0.00	-	+	0.356	7	0.00	0.00	10	0.00	0.00	-	o	1.000
50981C/50981	2	7	0.19	0.19	11	0.00	0.00	-	-	0.356	7	0.19	0.19	11	0.00	0.00	-	+	0.356	7	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			0.30	0.23		1.17	1.17		+			0.13	0.13		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.123			Power-50%	0.215	P-value		0.182 y	Power	---			Power-50%	---	P-value		0.218	Power	---			Power-50%	---	P-value		0.655
Stouffer's		Power	0.154			Power-50%	0.324	P-value		0.181	Power	---			Power-50%	---	P-value		0.143	Power	---			Power-50%	---	P-value		0.500
C15.1C/C15.1	3	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---
50981C/50221	3	5	0.38	0.26	2	0.00	0.00	-	+	0.188	5	0.00	0.00	2	0.00	0.00	-	o	1.000	5	0.00	0.00	2	0.00	0.00	-	o	1.000
50981C/50981	3	5	0.38	0.26	7	0.00	0.00	-	+	0.188	5	0.00	0.00	7	0.00	0.00	-	o	1.000	5	0.00	0.00	7	0.00	0.00	-	o	1.000
Habitat Means			0.27	0.30		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.051	Power	---			Power-50%	---	P-value		0.597	Power	---			Power-50%	---	P-value		0.597
Stouffer's		Power	---			Power-50%	---	P-value		0.031	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.104. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Estuarine. May 1991. Undisturbed.

		Urospora sp. (AE)								Morphological Group: Tubular and Saccate Greens								Blidingia/Enteromorpha (AE) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	9	5.14	2.86	11	0.00	0.00	-	+	0.090	9	4.88	2.62	11	0.00	0.00	-	+	0.042	9	4.88	2.62	11	0.00	0.00	-	+	0.042
50981C/50221	1	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.16	0.16	11	1.03	0.81	-	-	0.468	8	0.16	0.16	11	1.03	0.81	-	-	0.468
50981C/50981	1	8	0.00	0.00	10	3.26	2.00	-	-	0.100	8	0.16	0.16	10	1.26	0.79	-	-	0.265	8	0.16	0.16	10	1.26	0.79	-	-	0.265
Habitat Means			1.70	0.97		1.10	0.67		+			1.77	1.00		0.77	0.53		-			1.77	1.00		0.77	0.53		-	
Fisher's	Power		0.006		Power-50%		0.022	P-value		0.262x	Power	0.020		Power-50%		0.177	P-value		0.321xy	Power	0.021		Power-50%		0.188	P-value		0.321xy
Stouffer's	Power		0.000		Power-50%		0.001	P-value		0.489	Power	0.000		Power-50%		0.261	P-value		0.545	Power	0.001		Power-50%		0.270	P-value		0.545
C15.1C/C15.1	2	8	0.48	0.33	10	0.00	0.00	-	+	0.177	8	3.76	2.62	10	0.00	0.00	-	+	0.053	8	3.76	2.62	10	0.00	0.00	-	+	0.053
50981C/50221	2	7	0.00	0.00	10	0.00	0.00	-	o	1.000	7	1.26	1.06	10	2.94	2.38	-	-	0.799	7	1.26	1.06	10	2.94	2.38	-	-	0.799
50981C/50981	2	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	1.26	1.06	11	0.87	0.50	-	+	0.865	7	1.26	1.06	11	0.87	0.50	-	+	0.865
Habitat Means			0.17	0.10		0.00	0.00		+			2.13	1.60		1.27	0.97		+			2.13	1.60		1.27	0.97		+	
Fisher's	Power		0.007		Power-50%		0.010	P-value		0.267	Power	0.215		Power-50%		0.478	P-value		0.126	Power	0.216		Power-50%		0.454	P-value		0.126
Stouffer's	Power		0.000		Power-50%		0.002	P-value		0.218	Power	0.173		Power-50%		0.588	P-value		0.142	Power	0.164		Power-50%		0.573	P-value		0.142
C15.1C/C15.1	3	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---
50981C/50221	3	5	0.12	0.12	2	0.00	0.00	-	+	0.374	5	0.52	0.32	2	0.00	0.00	-	+	0.178	5	0.52	0.32	2	0.00	0.00	-	+	0.178
50981C/50981	3	5	0.12	0.12	7	0.00	0.00	-	-	0.374	5	0.52	0.32	7	0.36	0.36	-	+	0.534	5	0.52	0.32	7	0.36	0.36	-	+	0.534
Habitat Means			0.07	0.10		0.00	0.00					0.33	0.30		0.13	0.13		+			0.33	0.30		0.13	0.13			
Fisher's	Power		---		Power-50%		---	P-value		0.152	Power	0.289		Power-50%		0.075	P-value		0.113	Power	0.306		Power-50%		0.082	P-value		0.113
Stouffer's	Power		---		Power-50%		---	P-value		0.104	Power	---		Power-50%		---	P-value		0.082	Power	---		Power-50%		---	P-value		0.082

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.105. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Estuarine. May 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group: Bladed Browns								Total Fucus gardneri (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	9	24.04	10.40	11	11.25	4.82	-	+	0.152	9	14.32	4.93	11	11.25	4.82	-	-	0.343	9	14.32	4.93	11	11.25	4.82	-	+	0.343
50981C/50221	1	8	45.31	13.37	11	23.85	5.01	-	+	0.176	8	9.39	5.95	11	23.85	5.01	-	-	0.024	8	9.39	5.95	11	23.85	5.01	-	-	0.024
50981C/50981	1	8	45.31	13.37	10	8.13	3.97	-	+	0.009	8	9.39	5.95	10	8.13	3.97	-	-	0.830	8	9.39	5.95	10	8.13	3.97	-	+	0.830
Habitat Means			38.20	12.40		14.43	4.60		+			11.03	5.63		14.43	4.60		+			11.03	5.63		14.43	4.60		+	
Fisher's		Power	---		Power-50%		---	P-value		0.002	Power	0.023		Power-50%		0.567	P-value		0.504xy	Power	0.024		Power-50%		0.548	P-value		0.504xy
Stouffer's		Power	---		Power-50%		---	P-value		0.001	Power	0.004		Power-50%		0.576	P-value		0.735	Power	0.005		Power-50%		0.578	P-value		0.735
C15.1C/C15.1	2	8	46.59	11.72	10	19.21	8.46	-	+	0.043	8	35.40	8.95	10	19.21	8.46	-	+	0.125	8	35.40	8.95	10	19.21	8.46	-	-	0.125
50981C/50221	2	7	34.74	9.58	10	46.69	10.26	-	-	0.475	7	25.10	9.55	10	46.38	10.18	-	-	0.189	7	24.93	9.50	10	46.38	10.18	-	-	0.186
50981C/50981	2	7	34.74	9.58	11	30.80	9.93	-	+	0.616	7	25.10	9.55	11	27.47	9.29	-	-	0.985	7	24.93	9.50	11	27.47	9.29	-	-	0.977
Habitat Means			38.67	10.30		32.23	9.57		+			28.53	9.40		31.03	9.33		-			28.40	9.33		31.03	9.33		-	
Fisher's		Power	0.459		Power-50%		0.891	P-value		0.102	Power	0.033		Power-50%		0.546	P-value		0.394	Power	0.041		Power-50%		0.540	P-value		0.389
Stouffer's		Power	0.342		Power-50%		0.920	P-value		0.147	Power	0.025		Power-50%		0.581	P-value		0.546	Power	0.031		Power-50%		0.584	P-value		0.542
C15.1C/C15.1	3	1	67.50	--	6	11.37	6.05	-	+	---	1	35.00	--	6	11.37	6.05	-	+	---	1	35.00	--	6	11.37	6.05	-	+	---
50981C/50221	3	5	40.00	7.85	2	13.15	0.65	-	+	0.072	5	15.76	6.49	2	10.95	0.95	-	+	0.839	5	15.76	6.49	2	10.95	0.95	-	+	0.839
50981C/50981	3	5	40.00	7.85	7	37.56	9.18	-	+	0.779	5	15.76	6.49	7	36.01	8.47	-	-	0.099	5	15.76	6.49	7	36.01	8.47	-	-	0.099
Habitat Means			49.17	7.90		20.73	5.33		-			22.20	6.50		19.47	5.20		-			22.20	6.50		19.47	5.20		-	
Fisher's		Power	---		Power-50%		---	P-value		0.074	Power	0.247		Power-50%		0.151	P-value		0.130 y	Power	0.250		Power-50%		0.130	P-value		0.130 y
Stouffer's		Power	---		Power-50%		---	P-value		0.071	Power	0.257		Power-50%		0.193	P-value		0.153	Power	0.262		Power-50%		0.188	P-value		0.153

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Adult Fucus gardneri (P) (> 2cm)								Juvenile Fucus gardneri (P) (<= 2cm)								Fucus Stipes (P) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	9	12.10	4.18	11	11.25	4.82	-	-	0.627	9	2.24	1.25	11	0.00	0.00	-	+	0.035	9	0.00	0.00	11	0.80	0.54	-	-	0.168
50981C/50221	1	8	9.07	5.87	11	20.98	4.49	-	-	0.037	8	0.31	0.31	11	2.89	1.12	-	-	0.021	8	0.00	0.00	11	0.00	0.00	-	o	1.000
50981C/50981	1	8	9.07	5.87	10	8.13	3.97	-	+	0.854	8	0.31	0.31	10	0.00	0.00	-	+	0.351	8	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			10.10	5.33		13.47	4.43		+			0.93	0.63		0.97	0.37		+			0.00	0.00		0.27	0.17		-	
Fisher's		Power	0.016		Power-50%		0.425	P-value		0.669xy	Power	---		Power-50%		---	P-value		0.072xy	Power	0.005		Power-50%		---	P-value		0.259
Stouffer's		Power	0.005		Power-50%		0.465	P-value		0.793	Power	0.037		Power-50%		0.324	P-value		0.337	Power	0.001		Power-50%		---	P-value		0.213
C15.1C/C15.1	2	8	34.55	9.18	10	19.21	8.46	-	+	0.150	8	0.88	0.36	10	0.00	0.00	-	+	0.036	8	0.00	0.00	10	0.00	0.00	-	o	1.000
50981C/50221	2	7	24.93	9.50	10	44.41	9.68	-	-	0.212	7	0.00	0.00	10	1.99	1.43	-	-	0.122	7	0.19	0.19	10	0.00	0.00	-	+	0.356
50981C/50981	2	7	24.93	9.50	11	27.05	9.38	-	-	0.944	7	0.00	0.00	11	0.42	0.24	-	-	0.058	7	0.19	0.19	11	0.00	0.00	-	+	0.356
Habitat Means			28.13	9.40		30.23	9.20		-			0.30	0.13		0.80	0.53		-			0.13	0.13		0.00	0.00		-	
Fisher's		Power	0.038		Power-50%		0.560	P-value		0.407	Power	---		Power-50%		---	P-value		0.048x	Power	---		Power-50%		---	P-value		0.218
Stouffer's		Power	0.032		Power-50%		0.597	P-value		0.528	Power	0.020		Power-50%		0.095	P-value		0.220	Power	---		Power-50%		---	P-value		0.143
C15.1C/C15.1	3	1	35.00	--	6	10.53	6.27	-	+	---	1	0.00	--	6	0.83	0.83	-	-	---	1	0.00	--	6	0.42	0.42	-	-	---
50981C/50221	3	5	15.76	6.49	2	10.95	0.95	-	+	0.839	5	0.00	0.00	2	0.00	0.00	-	o	1.000	5	0.00	0.00	2	0.00	0.00	-	o	1.000
50981C/50981	3	5	15.76	6.49	7	35.83	8.43	-	-	0.100	5	0.00	0.00	7	0.17	0.12	-	-	0.180	5	0.00	0.00	7	0.00	0.00	-	o	1.000
Habitat Means			22.20	6.50		19.10	5.23		-			0.00	0.00		0.33	0.30		-			0.00	0.00		0.13	0.13		o	
Fisher's		Power	0.236		Power-50%		0.143	P-value		0.132 y	Power	0.026		Power-50%		---	P-value		0.184	Power	---		Power-50%		---	P-value		0.597 y
Stouffer's		Power	0.247		Power-50%		0.178	P-value		0.154	Power	0.012		Power-50%		---	P-value		0.171	Power	---		Power-50%		---	P-value		0.500

Table C-5.105. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Estuarine. May 1991. Undisturbed. (Continued.)

Site Pair	Mvd	Petalonia/Punctaria (AE) (b) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Coarse Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	9	0.00	0.00	11	0.00	0.00	-	o	1.000	9	0.00	0.00	11	0.00	0.00	-	o	1.000	9	0.00	0.00	11	0.00	0.00	-	o	1.000
50981C/50221	1	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000
50981C/50981	1	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	2	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000
50981C/50221	2	7	0.19	0.19	10	0.00	0.00	-	+	0.356	7	0.71	0.71	10	0.00	0.00	-	+	0.356	7	0.71	0.71	10	0.00	0.00	-	+	0.356
50981C/50981	2	7	0.19	0.19	11	0.00	0.00	-	+	0.356	7	0.71	0.71	11	0.00	0.00	-	+	0.356	7	0.71	0.71	11	0.00	0.00	-	+	0.356
Habitat Means			0.13	0.13		0.00	0.00		+			0.47	0.47		0.00	0.00		+			0.47	0.47		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.218	Power	---		Power-50%		---	P-value		0.218	Power	---		Power-50%		---	P-value		0.218
Stouffer's		Power	---		Power-50%		---	P-value		0.143	Power	---		Power-50%		---	P-value		0.143	Power	---		Power-50%		---	P-value		0.143
C15.1C/C15.1	3	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---
50981C/50221	3	5	0.00	0.00	2	0.00	0.00	-	o	1.000	5	0.88	0.47	2	0.00	0.00	-	+	0.089	5	0.88	0.47	2	0.00	0.00	-	-	0.089
50981C/50981	3	5	0.00	0.00	7	0.00	0.00	-	o	1.000	5	0.88	0.47	7	0.00	0.00	-	-	0.089	5	0.88	0.47	7	0.00	0.00	-	-	0.089
Habitat Means			0.00	0.00		0.00	0.00		o			0.60	0.50		0.00	0.00		+			0.60	0.50		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.014	Power	---		Power-50%		---	P-value		0.014
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.008	Power	---		Power-50%		---	P-value		0.008

(b) Genera not separated.

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Morphological Group: Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Fine Filamentous Browns (AE) (b) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50981C/50221	1	8	35.94	14.95	11	0.00	0.00	-	+	0.031	8	35.94	14.95	11	0.00	0.00	-	+	0.031									
50981C/50981	1	8	35.94	14.95	10	0.00	0.00	-	+	0.031	8	35.94	14.95	10	0.00	0.00	-	+	0.031									
Habitat Means			27.17	13.13		0.00	0.00		+			27.17	13.13		0.00	0.00		+										
Fisher's		Power	---		Power-50%		---	P-value		0.002	Power	---		Power-50%		---	P-value		0.002	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		
C15.1C/C15.1	2	8	11.19	7.28	10	0.00	0.00	-	+	0.063	8	11.19	7.28	10	0.00	0.00	-	+	0.063									
50981C/50221	2	7	8.94	6.57	10	0.31	0.31	-	+	0.135	7	8.94	6.57	10	0.31	0.31	-	+	0.135									
50981C/50981	2	7	8.94	6.57	11	3.34	3.17	-	+	0.254	7	8.94	6.57	11	3.34	3.17	-	+	0.254									
Habitat Means			9.67	6.83		1.20	1.17		+			9.67	6.83		1.20	1.17		+										
Fisher's		Power	---		Power-50%		---	P-value		0.012	Power	---		Power-50%		---	P-value		0.012	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.005	Power	---		Power-50%		---	P-value		0.005	Power	---		Power-50%		---	P-value		
C15.1C/C15.1	3	1	32.50	--	6	0.00	0.00	-	+	---	1	32.50	--	6	0.00	0.00	-	+	---									
50981C/50221	3	5	23.38	11.27	2	2.20	1.60	-	+	0.220	5	23.38	11.27	2	2.20	1.60	-	+	0.220									
50981C/50981	3	5	23.38	11.27	7	1.56	0.77	-	+	0.011	5	23.38	11.27	7	1.56	0.77	-	+	0.011									
Habitat Means			26.43	11.30		1.27	0.80		+			26.43	11.30		1.27	0.80		+										
Fisher's		Power	---		Power-50%		---	P-value		0.005	Power	---		Power-50%		---	P-value		0.005	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.004	Power	---		Power-50%		---	P-value		0.004	Power	---		Power-50%		---	P-value		

(b) Elachista, Ectocarpus and Pilayella.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.106. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Estuarine. May 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group: Bladed Reds								Palmaria spp. (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	9	0.00	0.00	11	0.68	0.68	-	-	0.341	9	0.00	0.00	11	0.00	0.00	-	o	1.000	9	0.00	0.00	11	0.00	0.00	-	o	1.000
50981C/50221	1	8	0.00	0.00	11	10.84	6.15	-	-	0.093	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000
50981C/50981	1	8	0.00	0.00	10	0.25	0.25	-	-	0.343	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		3.93	2.40		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.040	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.019	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	2	8	0.08	0.08	10	1.63	1.37	-	-	0.303	8	0.08	0.08	10	1.50	1.25	-	-	0.303	8	0.00	0.00	10	0.00	0.00	-	o	1.000
50981C/50221	2	7	1.09	0.70	10	4.88	4.88	-	-	0.831	7	0.00	0.00	10	0.00	0.00	-	o	1.000	7	0.00	0.00	10	0.00	0.00	-	o	1.000
50981C/50981	2	7	1.09	0.70	11	0.00	0.00	-	-	0.172	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			0.77	0.50		2.17	2.10		-			0.03	0.03		0.50	0.43		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.005		Power-50%		0.547	P-value		0.456	Power	0.001		Power-50%		---	P-value		0.365	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.003		Power-50%		0.613	P-value		0.528	Power	0.000		Power-50%		---	P-value		0.276	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	3	1	0.00	--	6	8.77	7.27	-	-	---	1	0.00	--	6	8.23	7.37	-	-	---	1	0.00	--	6	0.52	0.52	-	-	---
50981C/50221	3	5	1.12	0.98	2	0.00	0.00	-	+	0.239	5	0.00	0.00	2	0.00	0.00	-	o	1.000	5	0.00	0.00	2	0.00	0.00	-	o	1.000
50981C/50981	3	5	1.12	0.98	7	0.09	0.09	-	+	0.229	5	0.00	0.00	7	0.00	0.00	-	o	1.000	5	0.00	0.00	7	0.00	0.00	-	o	1.000
Habitat Means			0.73	1.00		2.97	2.47		-			0.00	0.00		2.73	2.47		o			0.00	0.00		0.17	0.17		o	
Fisher's		Power	---		Power-50%		---	P-value		0.073 y	Power	0.000		Power-50%		---	P-value		0.597 y	Power	---		Power-50%		---	P-value		0.597 y
Stouffer's		Power	---		Power-50%		---	P-value		0.046	Power	0.000		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Porphyra sp. (A)								Morphological Group: Coarse Filamentous Reds								Cryptosiphonia woodii (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50981C/50221	1	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000
50981C/50981	1	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.23	0.23		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.389	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.291	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	2	8	0.08	0.08	10	1.50	1.25	-	-	0.303	8	0.00	0.00	10	0.13	0.13	-	-	0.343	8	0.00	0.00	10	0.00	0.00	-	o	1.000
50981C/50221	2	7	0.00	0.00	10	0.00	0.00	-	o	1.000	7	1.09	0.70	10	1.25	1.25	-	-	0.712	7	0.19	0.19	10	0.00	0.00	-	+	0.356
50981C/50981	2	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	1.09	0.70	11	0.00	0.00	-	+	0.172	7	0.19	0.19	11	0.00	0.00	-	+	0.356
Habitat Means			0.03	0.03		0.50	0.43		-			0.73	0.47		0.47	0.47		-			0.13	0.13		0.00	0.00		+	
Fisher's		Power	0.000		Power-50%		---	P-value		0.365	Power	0.001		Power-50%		0.358	P-value		0.449 y	Power	---		Power-50%		---	P-value		0.218
Stouffer's		Power	0.000		Power-50%		---	P-value		0.276	Power	0.001		Power-50%		0.383	P-value		0.511	Power	---		Power-50%		---	P-value		0.143
C15.1C/C15.1	3	1	0.00	--	6	7.72	7.46	-	-	---	1	0.00	--	6	0.42	0.42	-	-	---	1	0.00	--	6	0.00	0.00	-	o	---
50981C/50221	3	5	0.00	0.00	2	0.00	0.00	-	o	1.000	5	1.12	0.98	2	0.00	0.00	-	+	0.239	5	0.00	0.00	2	0.00	0.00	-	o	1.000
50981C/50981	3	5	0.00	0.00	7	0.00	0.00	-	o	1.000	5	1.12	0.98	7	0.09	0.09	-	+	0.229	5	0.00	0.00	7	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		2.57	2.50		o			0.73	1.00		0.17	0.17		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		---	P-value		0.597 y	Power	---		Power-50%		---	P-value		0.073	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	0.000		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.046	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.106. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Estuarine. May 1991. Undisturbed. (Continued.)

Site Pair	Mvd	Gloiopeltis furcata (A) N	C	SE	N	O	SE	CV	D	P	Neorhodomela/Rhodomela (P) (a) N	C	SE	N	O	SE	CV	D	P	Odonthalia floccosa (P) N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	9	0.00	0.00	11	0.68	0.68	-	-	0.341	9	0.00	0.00	11	0.00	0.00	-	o	1.000	9	0.00	0.00	11	0.00	0.00	-	o	1.000
50981C/50221	1	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000
50981C/50981	1	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.23	0.23		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.389	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.291	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	2	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.13	0.13	-	-	0.343	8	0.00	0.00	10	0.00	0.00	-	o	1.000
50981C/50221	2	7	0.36	0.36	10	1.25	1.25	-	-	0.781	7	0.54	0.37	10	0.00	0.00	-	+	0.179	7	0.00	0.00	10	0.00	0.00	-	o	1.000
50981C/50981	2	7	0.36	0.36	11	0.00	0.00	-	+	0.356	7	0.54	0.37	11	0.00	0.00	-	+	0.179	7	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			0.27	0.27		0.43	0.43		+			0.33	0.27		0.03	0.03		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.443 y	Power	0.146		Power-50%		0.243	P-value		0.124	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.355	Power	0.125		Power-50%		0.323	P-value		0.158	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	3	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.42	0.42	-	-	---	1	0.00	--	6	0.00	0.00	-	o	---
50981C/50221	3	5	0.12	0.12	2	0.00	0.00	-	+	0.374	5	1.00	1.00	2	0.00	0.00	-	+	0.374	5	0.00	0.00	2	0.00	0.00	-	o	1.000
50981C/50981	3	5	0.12	0.12	7	0.00	0.00	-	+	0.374	5	1.00	1.00	7	0.00	0.00	-	+	0.374	5	0.00	0.00	7	0.09	0.09	-	-	0.356
Habitat Means			0.07	0.10		0.00	0.00		+			0.67	1.00		0.13	0.13		+			0.00	0.00		0.03	0.03		-	
Fisher's		Power	---		Power-50%		---	P-value		0.152	Power	---		Power-50%		---	P-value		0.152	Power	---		Power-50%		---	P-value		0.304
Stouffer's		Power	---		Power-50%		---	P-value		0.104	Power	---		Power-50%		---	P-value		0.104	Power	---		Power-50%		---	P-value		0.257

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Morphological Group: Saccate Reds N	C	SE	N	O	SE	CV	D	P	*Halosaccion spp.* (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	9	0.00	0.00	11	0.00	0.00	-	o	1.000	9	0.00	0.00	11	0.00	0.00	-	o	1.000	9	0.00	0.00	11	0.00	0.00	-	o	1.000
50981C/50221	1	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000
50981C/50981	1	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	2	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000
50981C/50221	2	7	0.00	0.00	10	0.00	0.00	-	o	1.000	7	0.00	0.00	10	0.00	0.00	-	o	1.000	7	0.00	0.00	10	0.00	0.00	-	o	1.000
50981C/50981	2	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	3	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.10	0.10	-	-	---
50981C/50221	3	5	0.00	0.00	2	0.00	0.00	-	o	1.000	5	0.00	0.00	2	0.00	0.00	-	o	1.000	5	0.00	0.00	2	0.00	0.00	-	o	1.000
50981C/50981	3	5	0.00	0.00	7	0.00	0.00	-	o	1.000	5	0.00	0.00	7	0.00	0.00	-	o	1.000	5	0.00	0.00	7	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.03	0.03		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597 y
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.106. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Estuarine. May 1991. Undisturbed. (Continued.)

		Polysiphonia/Pterosiphonia (A) (a)								Morphological Group: Crustose Reds								Hildenbrandia sp. (P)							
Wt Obi	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	9	0.00	0.00	11	0.00	0.00	-	o	1.000	9	0.00	0.00	11	0.00	0.00	-	o	1.000	9	0.00	0.00	11	0.00	0.00	-	o	1.000
50981C/50221	1	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	10.84	6.15	-	-	0.093	8	0.00	0.00	11	10.84	6.15	-	-	0.093
50981C/50981	1	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.25	0.25	-	-	0.343	8	0.00	0.00	10	0.25	0.25	-	-	0.343
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		3.70	2.17		-			0.00	0.00		3.70	2.17		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.087	Power	---		Power-50%		---	P-value		0.087
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.065	Power	---		Power-50%		---	P-value		0.065
C15.1C/C15.1	2	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000
50981C/50221	2	7	*0.00*	*0.00*	10	*0.00*	*0.00*	-	o	*1.000*	7	0.00	0.00	10	3.63	3.63	-	-	0.343	7	0.00	0.00	10	3.63	3.63	-	-	0.343
50981C/50981	2	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		1.20	1.20		-			0.00	0.00		1.20	1.20		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.391	Power	---		Power-50%		---	P-value		0.391
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.292	Power	---		Power-50%		---	P-value		0.292
C15.1C/C15.1	3	1	0.00	--	6	0.10	0.10	-	-	---	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---
50981C/50221	3	5	0.00	0.00	2	0.00	0.00	-	o	1.000	5	0.00	0.00	2	0.00	0.00	-	o	1.000	5	0.00	0.00	2	0.00	0.00	-	o	1.000
50981C/50981	3	5	0.00	0.00	7	0.00	0.00	-	o	1.000	5	0.00	0.00	7	0.00	0.00	-	o	1.000	5	0.00	0.00	7	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.03	0.03		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		*0.597* y	Power	---		Power-50%		---	P-value		*0.597*	Power	---		Power-50%		---	P-value		*0.597*
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At *least one site pair p-value < 0.100 in opposite direction of overall tests.*
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.107. Algal Percent Cover. Invertebrates. Cook Inlet/Kenai. Estuarine. May 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Balanomorpha								Lottiidae								Mytilus							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	9	0.00	0.00	11	9.55	4.55	-	-	0.012	9	0.00	0.00	11	0.00	0.00	-	o	1.000	9	0.00	0.00	11	3.86	1.73	-	-	0.041
50981C/50221	1	8	0.96	0.46	11	0.63	0.57	-	+	0.315	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000
50981C/50981	1	8	0.96	0.46	10	3.76	2.27	-	-	0.590	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.67	0.33		4.67	2.50		-			0.00	0.00		0.00	0.00		o			0.00	0.00		1.30	0.57		-	
Fisher's		Power	---		Power-50%		---	P-value		0.043	Power	---		Power-50%		---	P-value		0.655	Power	0.146		Power-50%		---	P-value		0.104
Stouffer's		Power	0.250		Power-50%		0.622	P-value		0.119	Power	---		Power-50%		---	P-value		0.500	Power	0.040		Power-50%		---	P-value		0.119
C15.1C/C15.1	2	8	1.73	1.23	10	12.96	5.58	-	-	0.048	8	0.00	0.00	10	0.38	0.38	-	-	0.343	8	0.00	0.00	10	9.22	3.83	-	-	0.008
50981C/50221	2	7	1.53	1.02	10	3.46	2.69	-	-	0.747	7	0.00	0.00	10	0.00	0.00	-	o	1.000	7	0.71	0.46	10	0.35	0.25	-	+	0.634
50981C/50981	2	7	1.53	1.02	11	1.06	0.36	-	+	0.823	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.71	0.46	11	0.19	0.13	-	+	0.350
Habitat Means			1.57	1.07		5.87	2.90		-			0.00	0.00		0.13	0.13		-			0.47	0.33		3.27	1.40		+	
Fisher's		Power	0.261		Power-50%		0.645	P-value		0.106	Power	---		Power-50%		---	P-value		0.391	Power	0.087		Power-50%		0.343	P-value		0.447xy
Stouffer's		Power	0.267		Power-50%		0.694	P-value		0.116	Power	---		Power-50%		---	P-value		0.292	Power	0.001		Power-50%		0.355	P-value		0.764
C15.1C/C15.1	3	1	0.00	--	6	5.73	3.57	-	-	---	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	1.78	0.84	-	-	---
50981C/50221	3	5	2.14	0.86	2	6.30	2.50	-	-	0.141	5	0.00	0.00	2	0.00	0.00	-	o	1.000	5	0.50	0.24	2	2.80	2.20	-	-	0.135
50981C/50981	3	5	2.14	0.86	7	1.56	0.77	-	+	0.528	5	0.00	0.00	7	0.00	0.00	-	o	1.000	5	0.50	0.24	7	0.19	0.19	-	+	0.199
Habitat Means			1.40	0.90		4.53	2.30		-			0.00	0.00		0.00	0.00		o			0.33	0.20		1.60	1.07		-	
Fisher's		Power	0.286		Power-50%		0.072	P-value		0.206	Power	---		Power-50%		---	P-value		0.597	Power	0.238		Power-50%		0.150	P-value		0.231
Stouffer's		Power	0.190		Power-50%		0.011	P-value		0.276	Power	---		Power-50%		---	P-value		0.500	Power	0.109		Power-50%		0.037	P-value		0.441

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall means.
z Only one site pair.

		Littorinidae																									
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	9	0.00	0.00	11	0.45	0.30	-	-	0.167																	
50981C/50221	1	8	0.00	0.00	11	0.00	0.00	-	o	1.000																	
50981C/50981	1	8	0.00	0.00	10	0.00	0.00	-	o	1.000																	
Habitat Means			0.00	0.00		0.17	0.10		-																		
Fisher's		Power	0.006		Power-50%		---	P-value		0.258	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.000		Power-50%		---	P-value		0.212	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
C15.1C/C15.1	2	8	0.00	0.00	10	0.50	0.33	-	-	0.168																	
50981C/50221	2	7	0.00	0.00	10	0.00	0.00	-	o	1.000																	
50981C/50981	2	7	0.00	0.00	11	0.00	0.00	-	o	1.000																	
Habitat Means			0.00	0.00		0.17	0.10		-																		
Fisher's		Power	0.006		Power-50%		---	P-value		0.259	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.001		Power-50%		---	P-value		0.213	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
C15.1C/C15.1	3	1	0.00	--	6	0.43	0.27	-	-	---																	
50981C/50221	3	5	0.76	0.50	2	0.00	0.00	-	+	0.185																	
50981C/50981	3	5	0.76	0.50	7	0.00	0.00	-	+	0.185																	
Habitat Means			0.53	0.50		0.13	0.10		+																		
Fisher's		Power	---		Power-50%		---	P-value		0.049	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.031	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.108. Algal Percent Cover. Substrates. Cook Inlet/Kenai. Estuarine. May 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Rock								Mud								Sand							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	9	60.57	8.56	11	73.31	8.74	-	-	0.245	9	0.00	0.00	11	0.00	0.00	-	o	1.000	9	0.00	0.00	11	0.00	0.00	-	o	1.000
50981C/50221	1	8	50.96	12.91	11	42.19	6.92	-	+	0.671	8	0.79	0.62	11	1.25	1.03	-	-	0.947	8	0.31	0.31	11	17.85	9.46	-	-	0.111
50981C/50981	1	8	50.96	12.91	10	81.64	6.28	-	-	0.029	8	0.79	0.62	10	0.00	0.00	-	+	0.196	8	0.31	0.31	10	0.00	0.00	-	+	0.351
Habitat Means			54.20	11.47		65.70	7.30		-			0.53	0.40		0.43	0.33		+			0.20	0.20		5.97	3.17		-	
Fisher's		Power	---		Power-50%		---	P-value		0.036	Power	0.027		Power-50%		0.088	P-value		0.293	Power	0.029		Power-50%		---	P-value		0.272
Stouffer's		Power	---		Power-50%		---	P-value		0.045	Power	0.045		Power-50%		0.158	P-value		0.240	Power	0.004		Power-50%		---	P-value		0.351
C15.1C/C15.1	2	8	43.76	11.67	10	53.65	8.00	-	-	0.383	8	0.00	0.00	10	2.50	2.50	-	-	0.343	8	0.00	0.00	10	0.00	0.00	-	o	1.000
50981C/50221	2	7	46.80	9.73	10	24.98	9.98	-	+	0.194	7	11.34	4.43	10	0.00	0.00	-	+	0.017	7	0.19	0.19	10	12.27	4.88	-	-	0.019
50981C/50981	2	7	46.80	9.73	11	55.12	13.15	-	-	0.596	7	11.34	4.43	11	1.82	1.22	-	+	0.017	7	0.19	0.19	11	8.34	3.73	-	-	0.228
Habitat Means			45.80	10.37		44.60	10.40		-			7.53	2.93		1.43	1.23		+			0.13	0.13		6.87	3.53		-	
Fisher's		Power	0.013		Power-50%		0.854	P-value		0.431 y	Power	---		Power-50%		---	P-value		0.003	Power	---		Power-50%		---	P-value		0.020
Stouffer's		Power	0.003		Power-50%		0.880	P-value		0.476	Power	---		Power-50%		---	P-value		0.013	Power	---		Power-50%		---	P-value		0.020
C15.1C/C15.1	3	1	5.00	--	6	68.23	9.81	-	-	---	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	3.33	3.33	-	-	---
50981C/50221	3	5	23.40	9.45	2	62.55	3.75	-	-	0.104	5	8.26	4.90	2	0.00	0.00	-	+	0.112	5	4.12	3.97	2	0.00	0.00	-	+	0.296
50981C/50981	3	5	23.40	9.45	7	51.06	13.45	-	-	0.133	5	8.26	4.90	7	5.19	3.79	-	+	0.511	5	4.12	3.97	7	1.16	1.16	-	+	0.472
Habitat Means			17.27	9.50		60.63	9.03		-			5.53	4.90		1.73	1.27		-			2.73	4.00		1.50	1.50		-	
Fisher's		Power	---		Power-50%		---	P-value		0.023	Power	---		Power-50%		---	P-value		0.075	Power	0.055		Power-50%		0.002	P-value		0.152
Stouffer's		Power	---		Power-50%		---	P-value		0.014	Power	---		Power-50%		---	P-value		0.056	Power	0.137		Power-50%		0.000	P-value		0.106

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Shell Fragments								Filamentous Diatoms								Zostera/Phyllospadix							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	9	0.00	0.00	11	0.12	0.12	-	-	0.341	9	0.14	0.14	11	0.00	0.00	-	+	0.347	9	0.00	0.00	11	0.00	0.00	-	o	1.000
50981C/50221	1	8	0.16	0.16	11	0.00	0.00	-	+	0.351	8	0.00	0.00	11	0.00	0.00	-	o	1.000	8	0.00	0.00	11	0.00	0.00	-	o	1.000
50981C/50981	1	8	0.16	0.16	10	0.00	0.00	-	+	0.351	8	0.00	0.00	10	1.50	1.50	-	-	0.343	8	0.00	0.00	10	0.00	0.00	-	o	1.000
Habitat Means			0.13	0.13		0.03	0.03		+			0.03	0.03		0.50	0.50		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.291	Power	---		Power-50%		---	P-value		0.507	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.299	Power	---		Power-50%		---	P-value		0.499	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	2	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000	8	0.00	0.00	10	0.00	0.00	-	o	1.000
50981C/50221	2	7	0.19	0.19	10	0.00	0.00	-	+	0.356	7	0.00	0.00	10	0.00	0.00	-	o	1.000	7	0.00	0.00	10	0.00	0.00	-	o	1.000
50981C/50981	2	7	0.19	0.19	11	0.07	0.07	-	+	0.625	7	0.00	0.00	11	0.00	0.00	-	o	1.000	7	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			0.13	0.13		0.03	0.03		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.306	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.208	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	3	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---
50981C/50221	3	5	0.38	0.38	2	0.30	0.30	-	+	0.835	5	0.00	0.00	2	0.00	0.00	-	o	1.000	5	0.00	0.00	2	0.00	0.00	-	o	1.000
50981C/50981	3	5	0.38	0.38	7	0.36	0.36	-	+	0.892	5	0.00	0.00	7	0.00	0.00	-	o	1.000	5	0.00	0.00	7	0.00	0.00	-	o	1.000
Habitat Means			0.27	0.40		0.23	0.23		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.499	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.404	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.108. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Estuarine. May 1991. Undisturbed. (Continued.)

		Sand and Mud								Total Substrate																
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	--	-	--	--	-	--	CV	- -
C15.1C/C15.1	1	9	0.00	0.00	11	0.12	0.12	-	-	0.341	9	60.57	8.56	11	73.42	8.74	-	-	0.242								
50981C/50221	1	8	1.25	0.67	11	19.10	9.28	-	-	0.107	8	52.20	13.07	11	61.27	7.12	-	-	0.442								
50981C/50981	1	8	1.25	0.67	10	0.00	0.00	-	+	0.085	8	52.20	13.07	10	81.64	6.28	-	-	0.034								
Habitat Means			0.87	0.47		6.40	3.13		-			55.00	11.60		72.10	7.37		-									
Fisher's	Power		0.055		Power-50%		0.580	P-value		0.149x	Power	---		Power-50%		---	P-value		0.017	Power	---	Power-50%	---	P-value			
Stouffer's	Power		0.007		Power-50%		0.647	P-value		0.313	Power	---		Power-50%		---	P-value		0.010	Power	---	Power-50%	---	P-value			
C15.1C/C15.1	2	8	0.00	0.00	10	2.50	2.50	-	-	0.343	8	43.76	11.67	10	56.15	8.22	-	-	0.311								
50981C/50221	2	7	11.71	4.49	10	12.27	4.88	-	-	0.782	7	58.49	9.72	10	37.25	9.47	-	+	0.215								
50981C/50981	2	7	11.71	4.49	11	10.23	5.63	-	+	0.435	7	58.49	9.72	11	65.35	10.49	-	-	0.529								
Habitat Means			7.80	3.00		8.33	4.33		-			53.60	10.37		52.97	9.40		-									
Fisher's	Power		0.013		Power-50%		0.249	P-value		0.435	Power	0.056		Power-50%		0.930	P-value		0.359 y	Power	---	Power-50%	---	P-value			
Stouffer's	Power		0.039		Power-50%		0.277	P-value		0.399	Power	0.019		Power-50%		0.935	P-value		0.408	Power	---	Power-50%	---	P-value			
C15.1C/C15.1	3	1	0.00	--	6	3.33	3.33	-	-	---	1	5.00	--	6	71.57	7.50	-	-	---								
50981C/50221	3	5	12.76	4.94	2	0.30	0.30	-	-	0.114	5	36.14	13.19	2	62.85	4.05	-	-	0.296								
50981C/50981	3	5	12.76	4.94	7	6.70	3.75	-	-	0.244	5	36.14	13.19	7	57.76	11.20	-	-	0.193								
Habitat Means			8.53	4.90		3.43	2.47		-			25.73	13.20		64.10	7.60		-									
Fisher's	Power		---		Power-50%		---	P-value		0.042	Power	---		Power-50%		---	P-value		0.075	Power	---	Power-50%	---	P-value			
Stouffer's	Power		---		Power-50%		---	P-value		0.026	Power	---		Power-50%		---	P-value		0.048	Power	---	Power-50%	---	P-value			

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.109. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Estuarine. June 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; - = control > oiled; + = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Algal Diversity Index (a)								Algal Taxa Richness (b)								Total Algae							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	12	0.14	0.05	9	0.02	0.02	-	+	0.028	12	1.75	0.41	9	0.44	0.24	-	+	0.021	12	28.29	10.11	9	9.87	7.37	-	+	0.110
50981C/50221	1	8	0.16	0.06	12	0.11	0.04	-	+	0.414	8	1.75	0.25	12	1.42	0.23	-	+	0.350	8	57.53	9.50	12	24.49	4.88	-	+	0.005
50981C/50981	1	8	0.16	0.06	12	0.06	0.03	-	+	0.144	8	1.75	0.25	12	0.75	0.25	-	+	0.014	8	57.53	9.50	12	18.44	9.38	-	+	0.012
Habitat Means			0.16	0.05		0.06	0.03		+			1.75	0.30		0.87	0.24		+			47.77	9.70		17.60	7.23		+	
Fisher's		Power	---		Power-50%		---	P-value		0.010	Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.000
Stouffer's		Power	---		Power-50%		---	P-value		0.005	Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.000
C15.1C/C15.1	2	11	0.22	0.05	10	0.06	0.04	-	+	0.026	11	2.36	0.39	10	1.20	0.57	-	+	0.104	11	76.38	7.30	10	21.14	10.32	-	+	0.000
50981C/50221	2	6	0.21	0.06	9	0.05	0.03	-	+	0.014	6	2.67	0.42	9	1.78	0.32	-	+	0.114	6	64.90	9.37	9	74.80	7.50	-	-	0.479
50981C/50981	2	6	0.21	0.06	13	0.13	0.04	-	+	0.295	6	2.67	0.42	13	1.69	0.33	-	+	0.102	6	64.90	9.37	13	30.30	8.40	-	+	0.039
Habitat Means			0.21	0.06		0.08	0.04		+			2.57	0.41		1.56	0.41		+			68.73	8.70		42.07	8.73		+	
Fisher's		Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.007	Power	---		Power-50%		---	P-value		0.000
Stouffer's		Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.003	Power	---		Power-50%		---	P-value		0.002
C15.1C/C15.1	3	8	0.24	0.06	8	0.09	0.06	-	+	0.123	8	2.50	0.33	8	1.25	0.31	-	+	0.015	8	69.17	9.79	8	15.46	4.91	-	-	0.001
50981C/50221	3	5	0.09	0.04	3	0.23	0.12	-	-	0.215	5	2.40	0.60	3	2.33	0.88	-	-	0.950	5	57.72	11.63	3	62.50	11.58	-	-	0.914
50981C/50981	3	5	0.09	0.04	7	0.19	0.05	-	-	0.147	5	2.40	0.60	7	2.57	0.37	-	-	0.802	5	57.72	11.63	7	61.13	12.15	-	-	0.907
Habitat Means			0.14	0.05		0.17	0.08		-			2.43	0.51		2.05	0.52		+			61.53	11.00		46.37	9.57		-	
Fisher's		Power	0.306		Power-50%		0.789	P-value		0.133	Power	---		Power-50%		---	P-value		0.057	Power	0.015		Power-50%		0.976	P-value		0.790xy
Stouffer's		Power	0.138		Power-50%		0.829	P-value		0.254	Power	---		Power-50%		---	P-value		0.099	Power	0.000		Power-50%		0.983	P-value		0.968

(a) Modified Shannon Index.
(b) Taxa richness calculations are explained in the methods.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Invertebrates								Rock								Perennials (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	12	0.11	0.11	9	18.89	8.92	-	-	0.039	12	60.90	10.10	9	71.26	9.96	-	-	0.396	12	20.37	7.63	9	9.72	7.38	-	-	0.182
50981C/50221	1	8	3.30	1.50	12	2.22	1.86	-	+	0.394	8	39.24	8.25	12	54.20	9.69	-	-	0.296	8	31.28	8.14	12	23.12	5.09	-	+	0.467
50981C/50981	1	8	3.30	1.50	12	0.11	0.11	-	+	0.055	8	39.24	8.25	12	81.46	9.37	-	-	0.007	8	31.28	8.14	12	15.32	9.61	-	-	0.159
Habitat Means			2.23	1.03		7.07	3.63		+			46.43	8.90		69.00	9.70		-			27.67	7.93		16.03	7.37		-	
Fisher's		Power	0.411		Power-50%		0.722	P-value		0.106xy	Power	---		Power-50%		---	P-value		0.005	Power	---		Power-50%		---	P-value		0.047
Stouffer's		Power	0.047		Power-50%		0.735	P-value		0.341	Power	---		Power-50%		---	P-value		0.004	Power	---		Power-50%		---	P-value		0.023
C15.1C/C15.1	2	11	0.63	0.47	10	21.00	9.27	-	-	0.019	11	21.66	6.85	10	57.76	10.10	-	-	0.012	11	50.86	8.99	10	20.32	10.09	-	+	0.025
50981C/50221	2	6	3.97	2.60	9	0.77	0.36	-	+	0.241	6	21.28	6.13	9	13.71	5.28	-	+	0.393	6	49.50	13.28	9	72.40	7.63	-	-	0.123
50981C/50981	2	6	3.97	2.60	13	1.20	0.53	-	+	0.268	6	21.28	6.13	13	63.87	9.89	-	-	0.036	6	49.50	13.28	13	22.30	6.71	-	+	0.044
Habitat Means			2.87	1.90		7.67	3.40		+			21.43	6.37		45.13	8.43		-			49.97	11.87		38.33	8.13		+	
Fisher's		Power	0.256		Power-50%		0.607	P-value		0.219xy	Power	---		Power-50%		---	P-value		0.005	Power	---		Power-50%		---	P-value		0.011
Stouffer's		Power	0.015		Power-50%		0.661	P-value		0.517	Power	---		Power-50%		---	P-value		0.015	Power	---		Power-50%		---	P-value		0.058
C15.1C/C15.1	3	8	2.83	1.62	8	7.67	4.72	-	-	0.293	8	23.25	10.19	8	76.91	4.93	-	-	0.001	8	28.56	11.71	8	12.34	3.14	-	+	0.341
50981C/50221	3	5	0.54	0.41	3	1.47	0.90	-	-	0.372	5	19.98	7.29	3	30.83	15.66	-	-	0.495	5	24.14	13.69	3	44.17	15.94	-	-	0.313
50981C/50981	3	5	0.54	0.41	7	0.06	0.06	-	-	0.211	5	19.98	7.29	7	31.91	13.06	-	-	0.521	5	24.14	13.69	7	43.34	10.86	-	-	0.235
Habitat Means			1.27	0.80		3.10	1.90		-			21.10	8.27		46.53	11.23		-			25.60	13.03		33.27	9.97		-	
Fisher's		Power	0.197		Power-50%		0.435	P-value		0.283	Power	---		Power-50%		---	P-value		0.002	Power	0.300		Power-50%		0.137	P-value		0.212
Stouffer's		Power	0.110		Power-50%		0.561	P-value		0.345	Power	---		Power-50%		---	P-value		0.003	Power	0.309		Power-50%		0.194	P-value		0.236

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.109. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Estuarine. June 1991. Undisturbed. (Continued.)

		Annuals (A)								Ephemerals (AE)																			
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	12	7.93	5.69	9	0.14	0.14	-	+	0.057	12	7.93	5.69	9	0.00	0.00	-	+	0.042									
50981C/50221	1	8	26.25	12.53	12	1.37	0.78	-	+	0.076	8	25.63	12.69	12	1.37	0.78	-	+	0.104									
50981C/50981	1	8	26.25	12.53	12	3.13	1.51	-	+	0.107	8	25.63	12.69	12	3.13	1.51	-	+	0.145									
Habitat Means			20.17	10.23		1.53	0.80		+			19.70	10.37		1.50	0.77		+										
Fisher's	Power		---		Power-50%		---	P-value		0.003	Power		---		Power-50%		---	P-value		0.004	Power		---		Power-50%		---	P-value	
Stouffer's	Power		---		Power-50%		---	P-value		0.001	Power		---		Power-50%		---	P-value		0.002	Power		---		Power-50%		---	P-value	
C15.1C/C15.1	2	11	25.52	7.96	10	0.81	0.81	-	+	0.004	11	25.52	7.96	10	0.00	0.00	-	+	0.003									
50981C/50221	2	6	15.42	5.53	9	2.41	1.35	-	+	0.017	6	15.35	5.48	9	2.41	1.35	-	+	0.017									
50981C/50981	2	6	15.42	5.53	13	7.81	3.11	-	+	0.183	6	15.35	5.48	13	7.81	3.11	-	+	0.184									
Habitat Means			18.77	6.33		3.67	1.77		+			18.77	6.33		3.40	1.50		+										
Fisher's	Power		---		Power-50%		---	P-value		0.000	Power		---		Power-50%		---	P-value		0.000	Power		---		Power-50%		---	P-value	
Stouffer's	Power		---		Power-50%		---	P-value		0.000	Power		---		Power-50%		---	P-value		0.000	Power		---		Power-50%		---	P-value	
C15.1C/C15.1	3	8	40.64	11.61	8	3.14	2.64	-	+	0.003	8	38.91	11.75	8	0.00	0.00	-	+	0.004									
50981C/50221	3	5	33.58	16.69	3	18.33	11.46	-	+	0.666	5	33.58	16.69	3	18.33	11.46	-	+	0.666									
50981C/50981	3	5	33.58	16.69	7	17.80	10.00	-	+	0.533	5	33.58	16.69	7	17.80	10.00	-	+	0.533									
Habitat Means			35.93	15.00		13.07	8.03		+			35.37	15.07		12.03	7.17		+										
Fisher's	Power		---		Power-50%		---	P-value		0.007	Power		---		Power-50%		---	P-value		0.008	Power		---		Power-50%		---	P-value	
Stouffer's	Power		---		Power-50%		---	P-value		0.010	Power		---		Power-50%		---	P-value		0.012	Power		---		Power-50%		---	P-value	

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.110. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Estuarine. June 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group: Bladed Greens								Bladed Greens (AE) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	12	1.16	0.55	9	0.00	0.00	-	+	0.045	12	0.32	0.23	9	0.00	0.00	-	+	0.172	12	0.32	0.23	9	0.00	0.00	-	+	0.172
50981C/50221	1	8	2.04	1.38	12	0.95	0.72	-	+	0.528	8	0.79	0.79	12	0.00	0.00	-	+	0.351	8	0.79	0.79	12	0.00	0.00	-	+	0.351
50981C/50981	1	8	2.04	1.38	12	3.13	1.51	-	-	0.680	8	0.79	0.79	12	0.00	0.00	-	+	0.351	8	0.79	0.79	12	0.00	0.00	-	+	0.351
Habitat Means			1.73	1.13		1.37	0.73		+			0.63	0.60		0.00	0.00		+			0.63	0.60		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.086	Power	---		Power-50%		---	P-value		0.065	Power	---		Power-50%		---	P-value		0.065
Stouffer's		Power	---		Power-50%		---	P-value		0.100	Power	---		Power-50%		---	P-value		0.031	Power	---		Power-50%		---	P-value		0.031
C15.1C/C15.1	2	11	3.19	1.43	10	0.00	0.00	-	+	0.024	11	1.48	1.13	10	0.00	0.00	-	+	0.127	11	1.48	1.13	10	0.00	0.00	-	-	0.127
50981C/50221	2	6	0.98	0.60	9	1.64	1.31	-	-	0.961	6	0.85	0.63	9	1.26	1.26	-	-	0.807	6	0.85	0.63	9	1.26	1.26	-	-	0.807
50981C/50981	2	6	0.98	0.60	13	4.10	2.44	-	-	0.410	6	0.85	0.63	13	0.43	0.26	-	+	0.536	6	0.85	0.63	13	0.43	0.26	-	+	0.536
Habitat Means			1.73	0.87		1.90	1.23		-			1.10	0.77		0.57	0.53		+			1.10	0.77		0.57	0.53		+	
Fisher's		Power	0.005		Power-50%		0.789	P-value		0.588x	Power	0.295		Power-50%		0.591	P-value		0.164	Power	0.299		Power-50%		0.609	P-value		0.164
Stouffer's		Power	0.000		Power-50%		0.824	P-value		0.789	Power	0.324		Power-50%		0.779	P-value		0.136	Power	0.332		Power-50%		0.799	P-value		0.136
C15.1C/C15.1	3	8	3.86	1.95	8	0.00	0.00	-	+	0.049	8	1.57	1.13	8	0.00	0.00	-	-	0.181	8	1.57	1.13	8	0.00	0.00	-	+	0.181
50981C/50221	3	5	32.34	16.18	3	0.83	0.83	-	+	0.195	5	32.34	16.18	3	0.20	0.20	-	-	0.171	5	32.34	16.18	3	0.20	0.20	-	+	0.171
50981C/50981	3	5	32.34	16.18	7	2.97	1.65	-	+	0.183	5	32.34	16.18	7	1.90	1.02	-	-	0.153	5	32.34	16.18	7	1.90	1.02	-	+	0.153
Habitat Means			22.83	11.47		1.27	0.83		+			22.07	11.17		0.70	0.40		-			22.07	11.17		0.70	0.40		+	
Fisher's		Power	---		Power-50%		---	P-value		0.010	Power	---		Power-50%		---	P-value		0.021	Power	---		Power-50%		---	P-value		0.021
Stouffer's		Power	---		Power-50%		---	P-value		0.004	Power	---		Power-50%		---	P-value		0.009	Power	---		Power-50%		---	P-value		0.009

[a] Kornmannia, Monostroma, Ulva and U.varia.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Fine Filamentous Greens								Cladophora sp. (AE)								Ulothrix sp. (AE)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	12	0.21	0.21	9	0.00	0.00	-	+	0.339	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	0.00	0.00	9	0.00	0.00	-	o	1.000
50981C/50221	1	8	0.00	0.00	12	0.26	0.26	-	-	0.339	8	0.00	0.00	12	0.26	0.26	-	-	0.339	8	0.00	0.00	12	0.00	0.00	-	o	1.000
50981C/50981	1	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.07	0.07		0.10	0.10		+			0.00	0.00		0.10	0.10		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.505 y	Power	---		Power-50%		---	P-value		0.388	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.290	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	2	11	0.35	0.35	10	0.00	0.00	-	+	0.341	11	0.35	0.35	10	0.00	0.00	-	+	0.341	11	0.00	0.00	10	0.00	0.00	-	o	1.000
50981C/50221	2	6	0.00	0.00	9	0.00	0.00	-	o	1.000	6	0.00	0.00	9	0.00	0.00	-	o	1.000	6	0.00	0.00	9	0.00	0.00	-	o	1.000
50981C/50981	2	6	0.00	0.00	13	0.19	0.19	-	-	0.337	6	0.00	0.00	13	0.00	0.00	-	o	1.000	6	0.00	0.00	13	0.00	0.00	-	o	1.000
Habitat Means			0.13	0.13		0.07	0.07		-			0.13	0.13		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.503 y	Power	---		Power-50%		---	P-value		0.389	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		0.291	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	3	8	0.00	0.00	8	0.00	0.00	-	o	1.000	8	0.00	0.00	8	0.00	0.00	-	o	1.000	8	0.00	0.00	8	0.00	0.00	-	o	1.000
50981C/50221	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000
50981C/50981	3	5	0.00	0.00	7	0.00	0.00	-	o	1.000	5	0.00	0.00	7	0.00	0.00	-	o	1.000	5	0.00	0.00	7	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.110. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Estuarine. June 1991. Undisturbed. (Continued.)

		Urospora sp. (AE)								Morphological Group: Tubular and Saccate Greens								Blidingia/Enteromorpha (AE) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	12	0.21	0.21	9	0.00	0.00	-	+	0.339	12	0.63	0.36	9	0.00	0.00	-	+	0.090	12	0.63	0.36	9	0.00	0.00	-	+	0.090
50981C/50221	1	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	1.25	1.25	12	0.69	0.69	-	+	0.724	8	1.25	1.25	12	0.69	0.69	-	+	0.724
50981C/50981	1	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	1.25	1.25	12	3.13	1.51	-	-	0.364	8	1.25	1.25	12	3.13	1.51	-	-	0.364
Habitat Means			0.07	0.07		0.00	0.00		+			1.07	1.00		1.27	0.73		+			1.07	1.00		1.27	0.73		+	
Fisher's		Power	---		Power-50%		---	P-value		0.388	Power	0.087		Power-50%		0.261	P-value		0.195 y	Power	0.091		Power-50%		0.266	P-value		0.195 y
Stouffer's		Power	---		Power-50%		---	P-value		0.290	Power	0.083		Power-50%		0.355	P-value		0.255	Power	0.090		Power-50%		0.354	P-value		0.255
C15.1C/C15.1	2	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	1.37	0.69	10	0.00	0.00	-	-	0.049	11	1.37	0.69	10	0.00	0.00	-	-	0.049
50981C/50221	2	6	0.00	0.00	9	0.00	0.00	-	o	1.000	6	0.13	0.13	9	0.39	0.27	-	-	0.495	6	0.13	0.13	9	0.39	0.27	-	-	0.495
50981C/50981	2	6	0.00	0.00	13	0.00	0.00	-	o	1.000	6	0.13	0.13	13	3.48	2.47	-	-	0.121	6	0.13	0.13	13	3.48	2.47	-	-	0.121
Habitat Means			0.00	0.00		0.00	0.00		o			0.53	0.30		1.30	0.93		-			0.53	0.30		1.30	0.93		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.075		Power-50%		0.398	P-value		0.207x	Power	0.061		Power-50%		0.398	P-value		0.207x
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.005		Power-50%		0.460	P-value		0.440	Power	0.004		Power-50%		0.479	P-value		0.440
C15.1C/C15.1	3	8	0.00	0.00	8	0.00	0.00	-	o	1.000	8	2.30	1.84	8	0.00	0.00	-	+	0.142	8	2.30	1.84	8	0.00	0.00	-	+	0.142
50981C/50221	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.63	0.63	-	-	0.423	5	0.00	0.00	3	0.63	0.63	-	-	0.423
50981C/50981	3	5	0.00	0.00	7	0.00	0.00	-	o	1.000	5	0.00	0.00	7	1.07	0.74	-	-	0.180	5	0.00	0.00	7	1.07	0.74	-	-	0.180
Habitat Means			0.00	0.00		0.00	0.00		o			0.77	0.60		0.57	0.43		-			0.77	0.60		0.57	0.43		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.012		Power-50%		0.002	P-value		0.233 y	Power	0.007		Power-50%		0.001	P-value		0.233 y
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.002		Power-50%		0.001	P-value		0.348	Power	0.002		Power-50%		0.000	P-value		0.348

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.111. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Estuarine. June 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								*Morphological Group: Bladed Browns*								Total Fucus gardneri (P)							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
C15.1C/C15.1	1	12	27.16	10.08	9	8.33	7.44	-	+	0.081	12	20.37	7.63	9	8.33	7.44	-	+	0.115	12	20.37	7.63	9	8.33	7.44	-	+	0.115
50981C/50221	1	8	55.49	8.95	12	21.45	4.41	-	+	0.002	8	31.28	8.14	12	21.03	4.35	-	+	0.343	8	31.28	8.14	12	21.03	4.35	-	-	0.343
50981C/50981	1	8	55.49	8.95	12	15.32	9.61	-	+	0.008	8	31.28	8.14	12	15.32	9.61	-	+	0.159	8	31.28	8.14	12	15.32	9.61	-	-	0.159
Habitat Means			46.07	9.37		15.03	7.13		+			27.67	7.93		14.87	7.13		+			27.67	7.93		14.87	7.13		+	
Fisher's	Power		---		Power-50%		---	P-value		0.000	Power		---		Power-50%		---	P-value		0.026	Power		---		Power-50%		---	P-value		0.026
Stouffer's	Power		---		Power-50%		---	P-value		0.000	Power		---		Power-50%		---	P-value		0.012	Power		---		Power-50%		---	P-value		0.012
C15.1C/C15.1	2	11	73.20	8.03	10	18.31	8.67	-	+	0.000	11	50.86	8.99	10	18.25	8.65	-	+	0.008	11	50.86	8.99	10	18.25	8.65	-	+	0.008
50981C/50221	2	6	63.75	9.31	9	73.16	7.85	-	-	0.434	6	49.30	13.20	9	72.40	7.63	-	-	0.120	6	49.30	13.20	9	72.40	7.63	-	-	0.120
50981C/50981	2	6	63.75	9.31	13	26.20	8.38	-	-	0.017	6	49.30	13.20	13	22.30	6.71	-	-	0.045	6	49.30	13.20	13	22.30	6.71	-	+	0.045
Habitat Means			66.93	8.87		39.23	8.33		+			49.83	11.80		37.67	7.67		+			49.83	11.80		37.67	7.67		.	
Fisher's	Power		---		Power-50%		---	P-value		0.000	Power		---		Power-50%		---	P-value		0.005	Power		---		Power-50%		---	P-value		0.005
Stouffer's	Power		---		Power-50%		---	P-value		0.001	Power		---		Power-50%		---	P-value		0.037	Power		---		Power-50%		---	P-value		0.037
C15.1C/C15.1	3	8	63.61	10.76	8	10.92	2.69	-	+	0.001	8	28.56	11.71	8	10.92	2.69	-	+	0.284	8	28.56	11.71	8	10.92	2.69	-	+	0.284
50981C/50221	3	5	24.88	13.38	3	61.67	12.42	-	-	0.110	5	23.64	13.85	3	44.17	15.94	-	-	0.303	5	23.64	13.85	3	44.17	15.94	-	-	0.303
50981C/50981	3	5	24.88	13.38	7	58.16	11.59	-	-	0.084	5	23.64	13.85	7	43.34	10.86	-	-	0.221	5	23.64	13.85	7	43.34	10.86	-	-	0.221
Habitat Means			37.80	12.53		43.60	8.90		-			25.27	13.17		32.80	9.83		-			25.27	13.17		32.80	9.83		-	
Fisher's	Power		---		Power-50%		---	P-value		*0.059x*	*Power*		*0.316*		*Power-50%*		*0.128*	P-value		0.204	Power		0.328		Power-50%		0.142	P-value		0.204
Stouffer's	Power		0.088		Power-50%		0.302	P-value		0.492	Power		0.315		Power-50%		0.194	P-value		0.247	Power		0.326		Power-50%		0.217	P-value		0.247

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Adult Fucus gardneri (P) (> 2cm)								*Juvenile Fucus gardneri (P) (<= 2cm)*								Fucus Stipes (P) (a)							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
C15.1C/C15.1	1	12	20.27	7.64	9	8.33	7.44	-	.	0.117	12	0.11	0.11	9	0.00	0.00	-	+	0.339	12	0.42	0.42	9	0.00	0.00	-	+	0.339
50981C/50221	1	8	20.33	5.77	12	21.03	4.35	-	-	0.740	8	10.95	9.39	12	0.00	0.00	-	+	0.184	8	0.00	0.00	12	0.00	0.00	-	o	1.000
50981C/50981	1	8	20.33	5.77	12	15.32	9.61	-	+	0.475	8	10.95	9.39	12	0.00	0.00	-	+	0.184	8	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			20.30	6.40		14.87	7.13		+			7.37	6.30		0.00	0.00		-			0.13	0.13		0.00	0.00		+	
Fisher's	Power		0.542		Power-50%		0.867	P-value		0.149	Power		---		Power-50%		---	P-value		0.042	Power		---		Power-50%		---	P-value		0.388
Stouffer's	Power		0.498		Power-50%		0.902	P-value		0.130	Power		---		Power-50%		---	P-value		0.018	Power		---		Power-50%		---	P-value		0.290
C15.1C/C15.1	2	11	50.86	8.99	10	18.25	8.65	-	+	0.008	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000
50981C/50221	2	6	48.47	13.62	9	72.33	7.66	-	-	0.114	6	0.83	0.83	9	0.07	0.07	-	+	0.483	6	0.00	0.00	9	0.00	0.00	-	o	1.000
50981C/50981	2	6	48.47	13.62	13	22.30	6.71	-	+	0.054	6	0.83	0.83	13	0.00	0.00	-	+	0.363	6	0.00	0.00	13	0.00	0.00	-	o	1.000
Habitat Means			49.30	12.07		37.63	7.70		+			0.53	0.53		0.03	0.03		+			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.006	Power		---		Power-50%		---	P-value		*0.266*	Power		---		Power-50%		---	P-value		*0.655*
Stouffer's	Power		---		Power-50%		---	P-value		0.043	Power		---		Power-50%		---	P-value		0.176	Power		---		Power-50%		---	P-value		0.500
C15.1C/C15.1	3	8	28.56	11.71	8	10.92	2.69	-	.	0.284	8	0.00	0.00	8	0.00	0.00	-	o	1.000	8	0.05	0.05	8	0.00	0.00	-	+	0.351
50981C/50221	3	5	23.64	13.85	3	44.17	15.94	-	-	0.303	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000
50981C/50981	3	5	23.64	13.85	7	43.34	10.86	-	-	0.221	5	0.00	0.00	7	0.00	0.00	-	o	1.000	5	0.00	0.00	7	0.00	0.00	-	o	1.000
Habitat Means			25.27	13.17		32.80	9.83		-			0.00	0.00		0.00	0.00		o			0.03	0.03		0.00	0.00		+	
Fisher's	*Power*		*0.317*		Power-50%		0.130	P-value		0.204	Power		---		Power-50%		---	P-value		0.655	Power		---		Power-50%		---	P-value		0.395
Stouffer's	Power		0.309		Power-50%		0.195	P-value		0.247	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value		0.295

(a) Dead Fucus plants or stipes without blades.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.111. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Estuarine. June 1991. Undisturbed. (Continued.)

Site Pair	Mvd	Petalonia/Punctaria (AE) (b) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Coarse Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	0.00	0.00	9	0.00	0.00	-	o	*1.000*
50981C/50221	1	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.63	0.63	12	0.00	0.00	-	+	0.351	8	0.63	0.63	12	0.00	0.00	-	+	0.351
50981C/50981	1	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.63	0.63	12	0.00	0.00	-	+	0.351	8	0.63	0.63	12	0.00	0.00	-	+	0.351
Habitat Means			0.00	0.00		0.00	0.00		o			0.40	0.40		0.00	0.00		.			0.40	0.40		0.00	0.00		.	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.214	Power	---		Power-50%		---	P-value		0.214
Stouffer's		Power	---		Power-50%		---	P-value		*0.500*	Power	---		Power-50%		---	P-value		0.141	Power	---		Power-50%		---	P-value		0.141
C15.1C/C15.1	2	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.06	0.06	-	-	0.343	11	0.00	0.00	10	0.06	0.06	-	-	0.343
50981C/50221	2	6	0.00	0.00	9	0.00	0.00	-	o	1.000	6	0.07	0.07	9	0.00	0.00	-	.	0.363	6	0.07	0.07	9	0.00	0.00	-	.	0.363
50981C/50981	2	6	0.00	0.00	13	0.00	0.00	-	o	1.000	6	0.07	0.07	13	0.00	0.00	-	+	0.363	6	0.07	0.07	13	0.00	0.00	-	+	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.07	0.07		0.03	0.03		.			0.07	0.07		0.03	0.03		.	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		*0.303*	Power	---		*Power-50%*		---	P-value		*0.303*
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.308	Power	---		Power-50%		---	P-value		0.308
C15.1C/C15.1	3	8	0.00	0.00	8	0.00	0.00	-	o	1.000	8	0.00	0.00	8	0.00	0.00	-	o	1.000	8	0.00	0.00	8	0.00	0.00	-	o	1.000
50981C/50221	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000
50981C/50981	3	5	0.00	0.00	7	0.00	0.00	-	o	1.000	5	0.00	0.00	7	0.00	0.00	-	o	1.000	5	0.00	0.00	7	0.00	0.00	-	o	1.000
Habitat Means			*0.00*	*0.00*		*0.00*	*0.00*		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

(b) Gebera not separated.

(a) Gebera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Morphological Group: Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Fine Filamentous Browns (AE) (b) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	12	6.78	5.76	9	0.00	0.00	-	+	0.099	12	6.78	5.76	9	0.00	0.00	-	+	*0.099*									
50981C/50221	1	8	23.60	11.69	12	0.42	0.42	-	+	0.067	8	23.60	11.69	12	0.42	0.42	-	+	0.067									
50981C/50981	1	8	23.60	11.69	12	0.00	0.00	-	+	0.056	8	23.60	11.69	12	0.00	0.00	-	+	0.056									
Habitat Means			18.00	9.73		0.13	0.13		+			18.00	9.73		0.13	0.13		+										
Fisher's		Power	---		Power-50%		---	P-value		0.003	Power	---		Power-50%		---	P-value		0.003	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		*Power-50%*		---	P-value		*0.001*	Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		
C15.1C/C15.1	2	11	22.33	8.14	10	0.00	0.00	-	+	0.007	11	22.33	8.14	10	0.00	0.00	-	+	0.007									
50981C/50221	2	6	14.38	5.24	9	0.77	0.47	-	+	0.003	6	14.38	5.24	9	0.77	0.47	-	+	0.003									
50981C/50981	2	6	14.38	5.24	13	3.90	2.18	-	+	0.025	6	14.38	5.24	13	3.90	2.18	-	+	0.025									
Habitat Means			17.03	6.17		1.57	0.90		+			17.03	6.17		1.57	0.90		+										
Fisher's		Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		*0.000*	Power	---		*Power-50%*		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		
C15.1C/C15.1	3	8	35.06	12.48	8	0.00	0.00	-	-	0.013	8	35.06	12.48	8	0.00	0.00	-	.	0.013									
50981C/50221	3	5	1.26	0.56	3	17.50	11.58	-	-	0.132	5	1.26	0.56	3	17.50	11.58	-	-	0.132									
50981C/50981	3	5	1.26	0.56	7	14.81	9.84	-	-	0.229	5	1.26	0.56	7	14.81	9.84	-	-	0.229									
Habitat Means			12.57	4.57		10.77	7.13		-			12.57	4.57		10.77	7.13		-										
Fisher's		Power	0.294		Power-50%	0.603	P-value			0.134xy	Power	0.295		Power-50%	0.588	P-value			0.134xy	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.033		Power-50%	0.657	P-value			0.451	Power	0.037		Power-50%	0.659	P-value			0.451	Power	---		Power-50%		---	P-value		

(b) Eliachista, Ectocarpus and Pilayella.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.112. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Estuarine. June 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group: Bladed Reds								Palmaria spp. (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	12	0.00	0.00	9	1.33	1.33	-	-	0.229	12	0.00	0.00	9	0.14	0.14	-	-	0.347	12	0.00	0.00	9	0.00	0.00	-	o	1.000
50981C/50221	1	8	0.00	0.00	12	2.08	1.68	-	-	0.193	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.00	0.00	12	0.00	0.00	-	o	1.000
50981C/50981	1	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		1.20	1.03		-			0.00	0.00		0.03	0.03		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.046			Power-50%		---	P-value	0.109	Power	---			Power-50%		---	P-value	0.393	Power	---			Power-50%		---	P-value	0.655
Stouffer's		Power	---			Power-50%		---	P-value	0.074	Power	---			Power-50%		---	P-value	0.293	Power	---			Power-50%		---	P-value	0.500
C15.1C/C15.1	2	11	0.00	0.00	10	2.82	1.83	-	-	0.117	11	0.00	0.00	10	0.56	0.56	-	-	0.343	11	0.00	0.00	10	0.06	0.06	-	-	0.343
50981C/50221	2	6	0.22	0.22	9	0.00	0.00	-	+	0.363	6	0.00	0.00	9	0.00	0.00	-	o	1.000	6	0.00	0.00	9	0.00	0.00	-	o	1.000
50981C/50981	2	6	0.22	0.22	13	0.00	0.00	-	+	0.363	6	0.00	0.00	13	0.00	0.00	-	o	1.000	6	0.00	0.00	13	0.00	0.00	-	o	1.000
Habitat Means			0.13	0.13		0.93	0.60		+			0.00	0.00		0.20	0.20		-			0.00	0.00		0.03	0.03		-	
Fisher's		Power	0.000			Power-50%		---	P-value	0.326 y	Power	---			Power-50%		---	P-value	0.391	Power	---			Power-50%		---	P-value	0.391
Stouffer's		Power	0.000			Power-50%		---	P-value	0.443	Power	---			Power-50%		---	P-value	0.292	Power	---			Power-50%		---	P-value	0.292
C15.1C/C15.1	3	8	1.73	1.13	8	4.54	4.02	-	-	0.705	8	1.73	1.13	8	2.66	2.66	-	-	0.932	8	0.00	0.00	8	0.00	0.00	-	o	1.000
50981C/50221	3	5	0.50	0.50	3	0.00	0.00	-	+	0.374	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000
50981C/50981	3	5	0.50	0.50	7	0.00	0.00	-	+	0.374	5	0.00	0.00	7	0.00	0.00	-	o	1.000	5	0.00	0.00	7	0.00	0.00	-	o	1.000
Habitat Means			0.90	0.70		1.50	1.33		+			0.57	0.37		0.90	0.90		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.027			Power-50%	0.271	P-value		0.271 y	Power	0.000			Power-50%	0.024	P-value		0.636	Power	---			Power-50%		---	P-value	0.655
Stouffer's		Power	0.088			Power-50%	0.376	P-value		0.210	Power	0.000			Power-50%	0.005	P-value		0.481	Power	---			Power-50%		---	P-value	0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Porphyra sp. (A)								Morphological Group: Coarse Filamentous Reds								Cryptosiphonia woodii (A)							
Site Pair	Mvd	N	C	SE	N	O	E	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	12	0.00	0.00	9	0.14	0.14	-	-	0.347	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	0.00	0.00	9	0.00	0.00	-	o	1.000
50981C/50221	1	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.00	0.00	12	0.00	0.00	-	o	1.000
50981C/50981	1	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.03	0.03		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%		---	P-value	0.393	Power	---			Power-50%		---	P-value	0.655	Power	---			Power-50%		---	P-value	0.655
Stouffer's		Power	---			Power-50%		---	P-value	0.293	Power	---			Power-50%		---	P-value	0.500	Power	---			Power-50%		---	P-value	0.500
C15.1C/C15.1	2	11	0.00	0.00	10	0.50	0.50	-	-	0.343	11	0.00	0.00	10	1.94	1.63	-	-	0.205	11	0.00	0.00	10	0.00	0.00	-	o	1.000
50981C/50221	2	6	0.00	0.00	9	0.00	0.00	-	o	1.000	6	0.22	0.22	9	0.00	0.00	-	+	0.363	6	0.00	0.00	9	0.00	0.00	-	o	1.000
50981C/50981	2	6	0.00	0.00	13	0.00	0.00	-	o	1.000	6	0.22	0.22	13	0.00	0.00	-	+	0.363	6	0.00	0.00	13	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.17	0.17		-			0.13	0.13		0.63	0.53		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%		---	P-value	0.391	Power	0.001			Power-50%		---	P-value	0.317 y	Power	---			Power-50%		---	P-value	0.655
Stouffer's		Power	---			Power-50%		---	P-value	0.292	Power	0.001			Power-50%		---	P-value	0.376	Power	---			Power-50%		---	P-value	0.500
C15.1C/C15.1	3	8	1.73	1.13	8	2.66	2.66	-	-	0.932	8	0.00	0.00	8	1.41	1.41	-	-	0.351	8	0.00	0.00	8	0.00	0.00	-	o	1.000
50981C/50221	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.50	0.50	3	0.00	0.00	-	+	0.374	5	0.00	0.00	3	0.00	0.00	-	o	1.000
50981C/50981	3	5	0.00	0.00	7	0.00	0.00	-	o	1.000	5	0.50	0.50	7	0.00	0.00	-	+	0.374	5	0.00	0.00	7	0.00	0.00	-	o	1.000
Habitat Means			0.57	0.37		0.90	0.50		-			0.33	0.33		0.47	0.47		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.001			Power-50%	0.030	P-value		0.636	Power	---			Power-50%	---	P-value		0.312 y	Power	---			Power-50%		---	P-value	0.655
Stouffer's		Power	0.000			Power-50%	0.007	P-value		0.481	Power	---			Power-50%	---	P-value		0.313	Power	---			Power-50%		---	P-value	0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.112. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Estuarine. June 1991. Undisturbed. (Continued.)

		Gloiopeltis furcata (A)								Neorhodomela/Rhodomela (P) (a)								Odonthalia floccosa (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	0.00	0.00	9	0.00	0.00	-	o	1.000
50981C/50221	1	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.00	0.00	12	0.00	0.00	-	o	1.000
50981C/50981	1	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	2	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	1.94	1.63	-	-	0.205	11	0.00	0.00	10	0.00	0.00	-	o	1.000
50981C/50221	2	6	0.00	0.00	9	0.00	0.00	-	o	1.000	6	0.22	0.22	9	0.00	0.00	-	-	0.363	6	0.00	0.00	9	0.00	0.00	-	o	1.000
50981C/50981	2	6	0.00	0.00	13	0.00	0.00	-	o	1.000	6	0.22	0.22	13	0.00	0.00	-	+	0.363	6	0.00	0.00	13	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.13	0.13		0.63	0.53		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.001		Power-50%		---	P-value		0.317 y	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.001		Power-50%		---	P-value		0.376	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	3	8	0.00	0.00	8	0.00	0.00	-	o	1.000	8	0.00	0.00	8	1.41	1.41	-	-	0.351	8	0.00	0.00	8	0.00	0.00	-	o	1.000
50981C/50221	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.50	0.50	3	0.00	0.00	-	+	0.374	5	0.00	0.00	3	0.00	0.00	-	o	1.000
50981C/50981	3	5	0.00	0.00	7	0.00	0.00	-	o	1.000	5	0.50	0.50	7	0.00	0.00	-	+	0.374	5	0.00	0.00	7	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.33	0.33		0.47	0.47		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.312 y	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.313	Power	---		Power-50%		---	P-value		0.500

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Saccate Reds								Halosaccion spp. (A)								Morphological Group: Fine Filamentous Reds							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	0.00	0.00	9	0.00	0.00	-	o	1.000
50981C/50221	1	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.00	0.00	12	0.00	0.00	-	o	1.000
50981C/50981	1	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	2	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.00	0.00	10	0.19	0.19	-	-	0.343
50981C/50221	2	6	0.00	0.00	9	0.00	0.00	-	o	1.000	6	0.00	0.00	9	0.00	0.00	-	o	1.000	6	0.00	0.00	9	0.00	0.00	-	o	1.000
50981C/50981	2	6	0.00	0.00	13	0.00	0.00	-	o	1.000	6	0.00	0.00	13	0.00	0.00	-	o	1.000	6	0.00	0.00	13	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.07	0.07		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.391
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.292
C15.1C/C15.1	3	8	0.00	0.00	8	0.00	0.00	-	o	1.000	8	0.00	0.00	8	0.00	0.00	-	o	1.000	8	0.00	0.00	8	0.48	0.48	-	-	0.351
50981C/50221	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000
50981C/50981	3	5	0.00	0.00	7	0.00	0.00	-	o	1.000	5	0.00	0.00	7	0.00	0.00	-	o	1.000	5	0.00	0.00	7	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.17	0.17		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.395
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.295

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.112. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Estuarine. June 1991. Undisturbed. (Continued.)

		Polysiphonia/Pterosiphonia (A) (a)								Morphological Group: Crustose Reds								Hildenbrandia sp. (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	0.00	0.00	9	1.39	1.39	-	-	0.347	12	0.00	0.00	9	1.39	1.39	-	-	0.347
50981C/50221	1	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.00	0.00	12	2.08	1.68	-	-	0.193	8	0.00	0.00	12	2.08	1.68	-	-	0.193
50981C/50981	1	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		1.17	1.03		-			0.00	0.00		1.17	1.03		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.021		Power-50%		---	P-value		0.144	Power	0.023		Power-50%		---	P-value		0.144
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.098	Power	---		Power-50%		---	P-value		0.098
C15.1C/C15.1	2	11	0.00	0.00	10	0.19	0.19	-	-	0.343	11	0.00	0.00	10	0.13	0.13	-	-	0.343	11	0.00	0.00	10	0.13	0.13	-	-	0.343
50981C/50221	2	6	0.00	0.00	9	0.00	0.00	-	o	1.000	6	0.00	0.00	9	0.00	0.00	-	o	1.000	6	0.00	0.00	9	0.00	0.00	-	o	1.000
50981C/50981	2	6	0.00	0.00	13	0.00	0.00	-	o	1.000	6	0.00	0.00	13	0.00	0.00	-	o	1.000	6	0.00	0.00	13	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.07	0.07		-			0.00	0.00		0.03	0.03		-			0.00	0.00		0.03	0.03		-	
Fisher's		Power	---		Power-50%		---	P-value		0.391	Power	---		Power-50%		---	P-value		0.391	Power	---		Power-50%		---	P-value		0.391
Stouffer's		Power	---		Power-50%		---	P-value		0.292	Power	---		Power-50%		---	P-value		0.292	Power	---		Power-50%		---	P-value		0.292
C15.1C/C15.1	3	8	0.00	0.00	8	0.48	0.48	-	-	0.351	8	0.00	0.00	8	0.00	0.00	-	o	1.000	8	0.00	0.00	8	0.00	0.00	-	o	1.000
50981C/50221	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000
50981C/50981	3	5	0.00	0.00	7	0.00	0.00	-	o	1.000	5	0.00	0.00	7	0.00	0.00	-	o	1.000	5	0.00	0.00	7	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.17	0.17		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.395	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.295	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

(a) Groups not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests
z Only one site pair.

Table C-5.113. Algal Percent Cover. Invertebrates. Cook Inlet/Kenai. Estuarine. June 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Balanomorpha								Lottiidae								Mytilus							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	12	0.11	0.11	9	14.46	6.91	-	-	0.056	12	0.00	0.00	9	0.42	0.42	-	-	0.347	12	0.00	0.00	9	2.64	1.75	-	-	0.169
50981C/50221	1	8	3.30	1.50	12	2.22	1.86	-	+	0.394	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.00	0.00	12	0.00	0.00	-	o	1.000
50981C/50981	1	8	3.30	1.50	12	0.11	0.11	-	+	0.055	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			2.23	1.03		5.60	2.97		+			0.00	0.00		0.13	0.13		-			0.00	0.00		0.87	0.60		-	
Fisher's		Power	0.463		Power-50%		0.745	P-value		0.105xy	Power	---		Power-50%		---	P-value		0.393	Power	0.026		Power-50%		---	P-value		0.260
Stouffer's		Power	0.088		Power-50%		0.749	P-value		0.309	Power	---		Power-50%		---	P-value		0.293	Power	0.004		Power-50%		---	P-value		0.214
C15.1C/C15.1	2	11	0.63	0.47	10	13.63	7.17	-	-	0.044	11	0.00	0.00	10	1.00	0.55	-	-	0.087	11	0.00	0.00	10	4.13	1.73	-	-	0.013
50981C/50221	2	6	3.83	2.62	9	0.77	0.36	-	+	0.269	6	0.00	0.00	9	0.00	0.00	-	o	1.000	6	0.07	0.07	9	0.00	0.00	-	+	0.363
50981C/50981	2	6	3.83	2.62	13	1.03	0.43	-	-	0.256	6	0.00	0.00	13	0.00	0.00	-	o	1.000	6	0.07	0.07	13	0.28	0.15	-	-	0.789
Habitat Means			2.73	1.90		5.13	2.67		-			0.00	0.00		0.33	0.20		-			0.07	0.07		1.43	0.63		-	
Fisher's		Power	0.217		Power-50%		0.536	P-value		0.226xy	Power	0.040		Power-50%		---	P-value		0.171	Power	---		Power-50%		---	P-value		0.056
Stouffer's		Power	0.028		Power-50%		0.575	P-value		0.449	Power	0.006		Power-50%		---	P-value		0.161	Power	0.136		Power-50%		---	P-value		0.145
C15.1C/C15.1	3	8	2.51	1.32	8	5.07	2.58	-	-	0.327	8	0.00	0.00	8	0.00	0.00	-	o	1.000	8	0.31	0.31	8	1.66	1.23	-	-	0.282
50981C/50221	3	5	0.34	0.34	3	1.47	0.90	-	-	0.217	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.08	0.08	3	0.00	0.00	-	+	0.374
50981C/50981	3	5	0.34	0.34	7	0.00	0.00	-	+	0.374	5	0.00	0.00	7	0.00	0.00	-	o	1.000	5	0.08	0.08	7	0.06	0.06	-	+	0.815
Habitat Means			1.03	0.63		2.20	1.17		-			0.00	0.00		0.00	0.00		o			0.17	0.17		0.60	0.43		+	
Fisher's		Power	0.179		Power-50%		0.183	P-value		0.205	Power	---		Power-50%		---	P-value		0.655	Power	0.005		Power-50%		---	P-value		0.487 y
Stouffer's		Power	0.121		Power-50%		0.308	P-value		0.222	Power	---		Power-50%		---	P-value		0.500	Power	0.019		Power-50%		---	P-value		0.489

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Littorinidae																									
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	12	0.00	0.00	9	1.40	0.57	-	-	0.019																	
50981C/50221	1	8	0.00	0.00	12	0.00	0.00	-	o	1.000																	
50981C/50981	1	8	0.00	0.00	12	0.00	0.00	-	o	1.000																	
Habitat Means			0.00	0.00		0.47	0.20		-																		
Fisher's		Power	---		Power-50%		---	P-value		0.059	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.087	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
C15.1C/C15.1	2	11	0.00	0.00	10	2.25	1.37	-	-	0.099																	
50981C/50221	2	6	0.07	0.07	9	0.00	0.00	-	-	0.363																	
50981C/50981	2	6	0.07	0.07	13	0.00	0.00	-	-	0.363																	
Habitat Means			0.07	0.07		0.77	0.47		+																		
Fisher's		Power	0.002		Power-50%		---	P-value		0.328xy	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.000		Power-50%		---	P-value		0.461	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
C15.1C/C15.1	3	8	0.00	0.00	8	0.94	0.94	-	-	0.351																	
50981C/50221	3	5	0.12	0.12	3	0.00	0.00	-	+	0.374																	
50981C/50981	3	5	0.12	0.12	7	0.00	0.00	-	+	0.374																	
Habitat Means			0.07	0.07		0.30	0.30		+																		
Fisher's		Power	---		Power-50%		---	P-value		0.312 y	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.313	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.114. Algal Percent Cover. Substrates. Cook Inlet/Kenai. Estuarine. June 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Rock								Mud								Sand							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	12	60.90	10.10	9	71.26	9.96	-	-	0.396	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	0.00	0.00	9	0.00	0.00	-	o	1.000
50981C/50221	1	8	39.24	8.25	12	54.20	9.69	-	-	0.296	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.00	0.00	12	17.76	9.09	-	-	0.057
50981C/50981	1	8	39.24	8.25	12	81.46	9.37	-	-	0.007	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			46.43	8.90		69.00	9.70		-			0.00	0.00		0.00	0.00		o			0.00	0.00		5.93	3.03		-	
Fisher's		Power	---		Power-50%		---	P-value		0.005	Power	---		Power-50%		---	P-value		0.655	Power	0.061		Power-50%		---	P-value		0.130
Stouffer's		Power	---		Power-50%		---	P-value		0.004	Power	---		Power-50%		---	P-value		0.500	Power	0.008		Power-50%		---	P-value		0.136
C15.1C/C15.1	2	11	21.66	6.85	10	57.76	10.10	-	-	0.012	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	0.23	0.23	10	0.13	0.13	-	+	0.874
50981C/50221	2	6	21.28	6.13	9	13.71	5.28	-	+	0.393	6	9.88	5.75	9	1.73	1.11	-	+	0.111	6	0.00	0.00	9	9.00	4.89	-	-	0.063
50981C/50981	2	6	21.28	6.13	13	63.87	9.89	-	-	0.036	6	9.88	5.75	13	1.68	1.14	-	+	0.045	6	0.00	0.00	13	2.88	2.88	-	-	0.337
Habitat Means			21.43	6.37		45.13	8.43		-			6.60	3.87		1.13	0.73		+			0.07	0.07		4.00	2.63		-	
Fisher's		Power	---		Power-50%		---	P-value		0.005	Power	---		Power-50%		---	P-value		0.022	Power	---		Power-50%		---	P-value		0.070
Stouffer's		Power	---		Power-50%		---	P-value		0.015	Power	---		Power-50%		---	P-value		0.029	Power	---		Power-50%		---	P-value		0.062
C15.1C/C15.1	3	8	23.25	10.19	8	76.91	4.93	-	-	0.001	8	4.54	2.34	8	0.00	0.00	-	+	0.050	8	0.21	0.16	8	0.00	0.00	-	+	0.190
50981C/50221	3	5	19.98	7.29	3	30.83	15.66	-	-	0.495	5	21.42	9.59	3	0.00	0.00	-	+	0.077	5	0.00	0.00	3	5.20	5.20	-	-	0.423
50981C/50981	3	5	19.98	7.29	7	31.91	13.06	-	-	0.521	5	21.42	9.59	7	6.73	2.57	-	+	0.274	5	0.00	0.00	7	0.00	0.00	-	o	1.000
Habitat Means			21.10	8.27		46.53	11.23		-			15.77	7.17		2.23	0.87		+			0.07	0.07		1.73	1.73		+	
Fisher's		Power	---		Power-50%		---	P-value		0.002	Power	---		Power-50%		---	P-value		0.007	Power	0.001		Power-50%		0.002	P-value		0.363 y
Stouffer's		Power	---		Power-50%		---	P-value		0.003	Power	---		Power-50%		---	P-value		0.003	Power	0.000		Power-50%		0.000	P-value		0.385

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Shell Fragments								Filamentous Diatoms								Zostera/Phyllospadix							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	1.78	1.23	9	0.00	0.00	-	+	0.113	12	0.00	0.00	9	0.00	0.00	-	o	1.000
50981C/50221	1	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.00	0.00	12	0.00	0.00	-	o	1.000
50981C/50981	1	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	0.00	0.00	12	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.60	0.43		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.006		Power-50%		0.004	P-value		0.202	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.002	P-value		0.180	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	2	11	0.00	0.00	10	0.00	0.00	-	o	1.000	11	1.14	1.14	10	0.00	0.00	-	+	0.341	11	0.00	0.00	10	0.00	0.00	-	o	1.000
50981C/50221	2	6	0.00	0.00	9	0.00	0.00	-	o	1.000	6	0.00	0.00	9	0.00	0.00	-	o	1.000	6	0.00	0.00	9	0.00	0.00	-	o	1.000
50981C/50981	2	6	0.00	0.00	13	0.08	0.05	-	-	0.168	6	0.00	0.00	13	0.00	0.00	-	o	1.000	6	0.00	0.00	13	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.03	0.03		-			0.37	0.37		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.008		Power-50%		---	P-value		0.259	Power	---		Power-50%		---	P-value		0.389	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.001		Power-50%		---	P-value		0.213	Power	---		Power-50%		---	P-value		0.291	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	3	8	0.00	0.00	8	0.00	0.00	-	o	1.000	8	0.00	0.00	8	0.00	0.00	-	o	1.000	8	0.00	0.00	8	0.00	0.00	-	o	1.000
50981C/50221	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.38	0.38	3	0.00	0.00	-	+	0.374
50981C/50981	3	5	0.00	0.00	7	0.19	0.19	-	-	0.356	5	0.00	0.00	7	0.00	0.00	-	o	1.000	5	0.38	0.38	7	0.00	0.00	-	+	0.374
Habitat Means			0.00	0.00		0.07	0.07		-			0.00	0.00		0.00	0.00		o			0.27	0.27		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.399	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.231
Stouffer's		Power	---		Power-50%		---	P-value		0.297	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.152

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.114. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Estuarine. June 1991. Undisturbed. (Continued.)

		Sand and Mud								Total Substrate																
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	12	0.00	0.00	9	0.00	0.00	-	o	1.000	12	60.90	10.10	9	71.26	9.96	-	-	0.396									
50981C/50221	1	8	0.00	0.00	12	17.76	9.09	-	-	0.057	8	39.24	8.25	12	71.96	6.01	-	-	0.006									
50981C/50981	1	8	0.00	0.00	12	0.00	0.00	-	o	1.000	8	39.24	8.25	12	81.46	9.37	-	-	0.007									
Habitat Means			0.00	0.00		5.93	3.03		-			46.43	8.90		74.93	8.47		-										
Fisher's		Power	0.057		Power-50%		---	P-value		0.130	Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.007		Power-50%		---	P-value		0.136	Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		
C15.1C/C15.1	2	11	0.23	0.23	10	0.13	0.13	-	-	0.874	11	21.89	6.82	10	57.89	10.02	-	-	0.009									
50981C/50221	2	6	9.88	5.75	9	10.73	4.61	-	-	0.823	6	31.15	7.57	9	24.44	7.55	-	-	0.575									
50981C/50981	2	6	9.88	5.75	13	4.65	2.98	-	+	0.244	6	31.15	7.57	13	68.52	8.38	-	-	0.027									
Habitat Means			6.67	3.93		5.17	2.57		+			28.10	7.33		50.27	8.67		-										
Fisher's		Power	0.111		Power-50%		0.282	P-value		0.328	Power	---		Power-50%		---	P-value		0.003	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.099		Power-50%		0.311	P-value		0.262	Power	---		Power-50%		---	P-value		0.007	Power	---		Power-50%		---	P-value		
C15.1C/C15.1	3	8	4.75	2.30	8	0.00	0.00	-	+	0.028	8	28.00	9.51	8	76.91	4.93	-	-	0.001									
50981C/50221	3	5	21.42	9.59	3	5.20	5.20	-	+	0.337	5	41.40	11.31	3	36.03	12.29	-	+	0.885									
50981C/50981	3	5	21.42	9.59	7	6.91	2.67	-	+	0.282	5	41.40	11.31	7	38.81	12.15	-	+	0.937									
Habitat Means			15.87	7.17		4.03	2.63		+			36.93	10.70		50.57	9.80		+										
Fisher's		Power	---		Power-50%		---	P-value		0.014	Power	0.008		Power-50%		0.266	P-value		0.790xy	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.007	Power	0.001		Power-50%		0.338	P-value		0.962	Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.115. Algal Percent Cover. Totals and Seasonal Groups. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Algal Diversity Index (a)								Algal Taxa Richness (b)								Total Algae							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	18	0.05	0.03	21	0.07	0.03	-	-	0.719	18	1.00	0.32	21	1.24	0.19	-	-	0.518	18	20.14	7.24	21	32.20	7.40	-	-	0.110
31252C/31248	1	18	0.00	0.00	20	0.00	0.00	-	-	0.330	18	0.56	0.12	20	0.40	0.13	-	+	0.397	18	21.33	7.30	20	16.38	6.94	-	-	0.535
31252C/31252	1	18	0.00	0.00	18	0.00	0.00	-	o	1.000	18	0.56	0.12	18	0.11	0.08	-	+	0.004	18	21.33	7.30	18	0.21	0.15	-	+	0.004
99826C/33141	1	20	0.02	0.02	16	0.00	0.00	-	+	0.330	20	0.30	0.16	16	0.50	0.13	-	-	0.363	20	2.25	1.53	16	4.69	2.03	-	-	0.156
Habitat Means			0.02	0.01		0.02	0.01		-			0.60	0.18		0.56	0.13		+			16.25	5.83		13.38	4.12		+	
Fisher's	Power		*0.020*		Power-50%		0.012	P-value		0.494	Power	---		Power-50%		---	P-value		0.032	Power	---		Power-50%		---	P-value		0.051
Stouffer's	Power		0.120		Power-50%		0.048	P-value		0.250	Power	0.056		Power-50%		0.998	P-value		0.199	Power	0.027		Power-50%		0.776	P-value		0.528
30196C/30196	2	16	0.16	0.05	18	0.31	0.06	-	-	0.057	16	1.88	0.47	18	3.33	0.52	-	-	0.049	16	33.21	9.12	18	59.32	7.59	-	-	0.021
31252C/31248	2	17	0.02	0.02	20	0.03	0.02	-	-	0.854	17	0.82	0.15	20	0.80	0.16	-	-	0.916	17	26.70	8.30	20	19.76	6.09	-	+	0.586
31252C/31252	2	17	0.02	0.02	18	0.03	0.02	-	-	0.799	17	0.82	0.15	18	0.33	0.16	-	-	0.036	17	26.70	8.30	18	1.88	1.29	-	+	0.005
99826C/33141	2	21	0.05	0.02	14	0.06	0.03	-	-	0.733	21	0.95	0.19	14	0.79	0.30	-	-	0.623	21	24.23	6.51	14	12.77	5.73	-	-	0.190
Habitat Means			0.06	0.03		0.11	0.03		-			1.12	0.24		1.31	0.29		+			27.70	8.05		23.45	5.17		-	
Fisher's	Power		0.455		Power-50%		0.954	P-value		0.124	Power	0.423		Power-50%		1.000	P-value		0.152xy	Power	---		Power-50%		---	P-value		0.013x
Stouffer's	Power		---		Power-50%		---	P-value		*0.042*	Power	*0.007*		Power-50%		*0.997*	P-value		*0.774*	Power	*0.052*		Power-50%		*0.655*	P-value		*0.694*
30196C/30196	3	14	0.38	0.06	17	0.49	0.07	-	-	0.247	14	3.57	0.52	17	5.29	0.80	-	-	0.097	14	66.53	7.76	17	73.35	6.52	-	-	0.352
31252C/31248	3	17	0.10	0.04	20	0.17	0.04	-	-	0.243	17	1.12	0.24	20	1.55	0.28	-	-	0.254	17	6.18	1.98	20	14.51	3.89	-	-	0.073
31252C/31252	3	17	0.10	0.04	18	0.02	0.02	-	+	0.097	17	1.12	0.24	18	0.83	0.20	-	+	0.370	17	6.18	1.98	18	31.12	9.14	-	-	0.046
99826C/33141	3	10	0.12	0.04	11	0.01	0.01	-	+	0.041	10	1.50	0.27	11	0.64	0.24	-	+	0.028	10	42.00	11.65	11	30.23	12.64	-	-	0.361
Habitat Means			0.17	0.04		0.17	0.03		+			1.83	0.32		2.08	0.38		-			30.23	5.87		37.30	8.03		-	
Fisher's	Power		---		Power-50%		---	P-value		0.073	Power	0.304		Power-50%		1.000	P-value		0.138xy	Power	---		Power-50%		---	P-value		0.021
Stouffer's	Power		0.027		Power-50%		0.997	P-value		*0.769*	Power	*0.001*		Power-50%		*1.000*	P-value		*0.918*	Power	---		Power-50%		---	P-value		*0.013*

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall means.
z Only one site pair.

		Total Invertebrates								Rock								Perennials (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	18	26.88	6.28	21	3.87	1.42	-	+	0.002	18	52.86	5.90	21	63.87	7.74	-	-	0.235	18	19.93	7.14	21	30.95	7.55	-	-	0.141
31252C/31248	1	18	22.43	6.68	20	15.19	3.52	-	+	0.392	18	55.98	7.96	20	68.44	6.50	-	-	0.255	18	21.33	7.30	20	16.31	6.94	-	+	0.531
31252C/31252	1	18	22.43	6.68	18	65.43	6.71	-	-	0.000	18	55.98	7.96	18	34.39	6.77	-	+	0.033	18	21.33	7.30	18	0.21	0.15	-	+	0.004
99826C/33141	1	20	23.19	5.24	16	11.49	3.32	-	+	0.071	20	74.51	5.41	16	83.61	4.34	-	-	0.171	20	2.00	1.29	16	4.69	2.03	-	-	0.131
Habitat Means			23.72	6.23		24.00	3.73		+			59.85	6.83		62.58	6.33		-			16.13	5.75		13.05	4.17		+	
Fisher's	Power		---		Power-50%		---	P-value		0.002xy	Power	0.202		Power-50%		0.999	P-value		0.100x	Power	---		Power-50%		---	P-value		0.051
Stouffer's	Power		---		Power-50%		---	P-value		0.050	Power	0.075		Power-50%		0.990	P-value		0.203	Power	0.039		Power-50%		0.765	P-value		*0.489*
30196C/30196	2	16	10.94	4.23	18	3.62	1.14	-	+	0.227	16	55.71	9.37	18	37.01	7.67	-	+	0.095	16	24.15	7.84	18	53.35	7.38	-	-	0.007
31252C/31248	2	17	43.54	8.39	20	42.89	7.30	-	+	0.832	17	29.05	7.33	20	37.01	7.10	-	-	0.363	17	26.70	8.30	20	19.69	6.10	-	+	0.579
31252C/31252	2	17	43.54	8.39	18	67.86	5.79	-	-	0.034	17	29.05	7.33	18	30.29	6.03	-	-	0.933	17	26.70	8.30	18	1.81	1.29	-	+	0.004
99826C/33141	2	21	43.64	5.07	14	11.16	3.55	-	+	0.000	21	28.93	4.38	14	74.92	7.09	-	-	0.000	21	23.04	6.25	14	10.81	4.89	-	-	0.150
Habitat Means			35.38	6.52		31.40	4.45		+			35.70	7.10		44.80	6.97		-			25.15	7.68		21.42	4.92		-	
Fisher's	Power		---		Power-50%		---	P-value		0.001x	Power	---		Power-50%		---	P-value		0.002x	Power	---		Power-50%		---	P-value		0.011x
Stouffer's	Power		0.093		Power-50%		0.901	P-value		0.275	Power	0.056		Power-50%		0.687	P-value		*0.728*	Power	*0.021*		Power-50%		*0.644*	P-value		*0.784*
30196C/30196	3	14	2.06	1.61	17	3.16	1.99	-	-	0.705	14	31.44	7.92	17	21.87	6.54	-	+	0.194	14	33.59	7.65	17	44.54	4.77	-	-	0.246
31252C/31248	3	17	45.89	9.05	20	49.01	6.21	-	-	0.782	17	47.51	8.36	20	35.44	6.01	-	+	0.401	17	5.74	1.94	20	9.38	2.04	-	-	0.140
31252C/31252	3	17	45.89	9.05	18	37.57	8.57	-	+	0.391	17	47.51	8.36	18	31.33	6.76	-	+	0.315	17	5.74	1.94	18	29.94	8.94	-	+	0.038
99826C/33141	3	10	26.00	8.21	11	5.57	4.23	-	+	0.027	10	13.25	5.41	11	63.75	12.78	-	+	0.002	10	26.63	8.36	11	30.00	12.60	-	-	0.946
Habitat Means			29.98	7.00		23.85	5.25		+			34.92	7.52		38.10	8.02		+			17.90	4.98		28.45	7.08		-	
Fisher's	Power		---		Power-50%		---	P-value		0.089	Power	0.409		Power-50%		0.986	P-value		0.171xy	Power	---		Power-50%		---	P-value		0.015
Stouffer's	Power		0.019		Power-50%		0.743	P-value		*0.486*	Power	---		Power-50%		---	P-value		*0.058*	Power	---		Power-50%		---	P-value		*0.009*

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.115. Algal Percent Cover. Totals and Seasonal Groups. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Undisturbed. (Continued.)

		Annuals (A)								Ephemerals (AE)																
Site Pair	Mod	N	C	SE	N	Q	SE	CV	D	P	N	C	SE	N	Q	SE	CV	D	P	N	C	SE	N	Q	SE	CV	D	P
30196C/30196	1	18	0.21	0.19	21	1.23	1.03			0.330	18	0.00	0.00	20	0.00	0.00	-	o	1.000									
31252C/31248	1	18	0.00	0.00	20	0.07	0.07	-	-	0.330	18	0.00	0.00	20	0.00	0.00	-	o	1.000									
31252C/31252	1	18	0.00	0.00	18	0.00	0.00	-	o	1.000	18	0.00	0.00	18	0.00	0.00	-	o	1.000									
99826C/33141	1	20	0.25	0.25	16	0.00	0.00	-	+	0.330	20	0.00	0.00	16	0.00	0.00	-	o	1.000									
Habitat Means			0.13	0.13		0.35	0.28		-			0.00	0.00		0.00	0.00		o									
Fisher's		Power	0.001		Power-50%		0.011	P-value		0.421	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.077		Power-50%		0.045	P-value		0.177	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
30196C/30196	2	16	9.07	6.10	18	5.98	3.20	-	+	0.896	16	1.49	1.25	18	0.00	0.00	-	+	0.149									
31252C/31248	2	17	0.00	0.00	20	0.07	0.07	-	-	0.330	17	0.00	0.00	20	0.00	0.00	-	o	1.000									
31252C/31252	2	17	0.00	0.00	18	0.07	0.07	-	-	0.331	17	0.00	0.00	18	0.00	0.00	-	o	1.000									
99826C/33141	2	21	1.19	0.74	14	1.96	1.05	-	-	0.602	21	0.71	0.71	14	0.71	0.55	-	o	0.680									
Habitat Means			2.58	1.70		2.05	1.12		-			0.55	0.50		0.17	0.15		+									
Fisher's		Power	0.150		Power-50%		0.085	P-value		0.214 y	Power	0.003		Power-50%		0.005	P-value		0.359	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.156		Power-50%		0.093	P-value		0.231	Power	0.036		Power-50%		0.026	P-value		0.128	Power	---		Power-50%		---	P-value		
30196C/30196	3	14	32.96	6.89	17	28.83	7.15	-	+	0.548	14	17.14	4.67	17	6.69	2.53	-	+	0.072									
31252C/31248	3	17	0.45	0.21	20	5.13	2.64	-	-	0.083	17	0.00	0.00	20	2.31	2.25	-	-	0.264									
31252C/31252	3	17	0.45	0.21	18	1.18	0.88	-	-	0.892	17	0.00	0.00	18	0.07	0.07	-	-	0.331									
99826C/33141	3	10	15.38	9.19	11	0.23	0.23	-	+	0.076	10	13.00	9.43	11	0.23	0.23	-	+	0.221									
Habitat Means			12.35	4.12		8.83	2.73		-			7.53	3.53		2.32	1.27		+									
Fisher's		Power	0.216		Power-50%		0.933	P-value		0.239 x	Power	0.057		Power-50%		0.459	P-value		0.165	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.017		Power-50%		0.884	P-value		0.597	Power	0.027		Power-50%		0.554	P-value		0.250	Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.116. Algal Percent Cover. Chlorophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group: Bladed Greens								Bladed Greens (AE) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000
31252C/31248	1	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000
31252C/31252	1	18	0.00	0.00	18	0.00	0.00	-	o	1.000	18	0.00	0.00	18	0.00	0.00	-	o	1.000	18	0.00	0.00	18	0.00	0.00	-	o	1.000
99826C/33141	1	20	0.00	0.00	16	0.00	0.00	-	o	1.000	20	0.00	0.00	16	0.00	0.00	-	o	1.000	20	0.00	0.00	16	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.698	Power		---		Power-50%		---	P-value		0.698	Power		---		Power-50%		---	P-value		0.698
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value		0.500
30196C/30196	2	16	1.49	1.25	18	0.21	0.21	-	+	0.288	16	0.24	0.17	18	0.00	0.00	-	+	0.170	16	0.24	0.17	18	0.00	0.00	-	+	0.170
31252C/31248	2	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000
31252C/31252	2	17	0.00	0.00	18	0.00	0.00	-	o	1.000	17	0.00	0.00	18	0.00	0.00	-	o	1.000	17	0.00	0.00	18	0.00	0.00	-	o	1.000
99826C/33141	2	21	0.71	0.71	14	0.71	0.55	-	o	0.680	21	0.71	0.71	14	0.71	0.55	-	o	0.680	21	0.71	0.71	14	0.71	0.55	-	o	0.680
Habitat Means			0.55	0.50		0.23	0.20		+			0.23	0.23		0.17	0.15		+			0.23	0.23		0.17	0.15		+	
Fisher's	Power		0.003		Power-50%		0.002	P-value		0.486	Power		0.003		Power-50%		0.007	P-value		0.383	Power		0.003		Power-50%		0.008	P-value		0.383
Stouffer's	Power		0.029		Power-50%		0.019	P-value		0.204	Power		0.027		Power-50%		0.028	P-value		0.141	Power		0.028		Power-50%		0.040	P-value		0.141
30196C/30196	3	14	17.24	4.68	17	8.38	2.78	-	+	0.158	14	2.41	1.46	17	6.11	2.29	-	-	0.209	14	2.41	1.46	17	6.11	2.29	-	-	0.209
31252C/31248	3	17	0.00	0.00	20	1.38	1.38	-	-	0.330	17	0.00	0.00	20	1.38	1.38	-	-	0.330	17	0.00	0.00	20	1.38	1.38	-	-	0.330
31252C/31252	3	17	0.00	0.00	18	0.07	0.07	-	-	0.331	17	0.00	0.00	18	0.07	0.07	-	-	0.331	17	0.00	0.00	18	0.07	0.07	-	-	0.331
99826C/33141	3	10	13.00	9.43	11	0.23	0.23	-	+	0.221	10	13.00	9.43	11	0.23	0.23	-	+	0.221	10	13.00	9.43	11	0.23	0.23	-	+	0.221
Habitat Means			7.55	3.53		2.52	1.12		+			3.85	2.73		1.95	1.00		-			3.85	2.73		1.95	1.00		-	
Fisher's	*Power*		*0.249*		*Power-50%*		*0.464*	*P-value*		*0.251*	*Power*		*0.140*		*Power-50%*		*0.191*	*P-value*		*0.153 y*	Power		0.138		Power-50%		0.193	P-value		0.153 y
Stouffer's	Power		0.157		Power-50%		0.552	P-value		0.335	Power		---		Power-50%		---	P-value		0.042	Power		---		Power-50%		---	P-value		0.042

(a) Kornmannia, Monostroma, Ulva and Ulvaria.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Fine Filamentous Greens								Acrosiphonia sp. (A)								Chaetomorpha/Rhizoclonium (A) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000
31252C/31248	1	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000
31252C/31252	1	18	0.00	0.00	18	0.00	0.00	-	o	1.000	18	0.00	0.00	18	0.00	0.00	-	o	1.000	18	0.00	0.00	18	0.00	0.00	-	o	1.000
99826C/33141	1	20	0.00	0.00	16	0.00	0.00	-	o	1.000	20	0.00	0.00	16	0.00	0.00	-	o	1.000	20	0.00	0.00	16	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.698	Power		---		Power-50%		---	P-value		0.698	Power		---		Power-50%		---	P-value		0.698
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value		0.500
30196C/30196	2	16	0.00	0.00	18	0.21	0.21	-	-	0.331	16	0.00	0.00	18	0.21	0.21	-	-	0.331	16	0.00	0.00	18	0.00	0.00	-	o	1.000
31252C/31248	*2*	*17*	*0.00*	*0.00*	*20*	*0.00*	*0.00*	-	o	*1.000*	17	*0.00*	*0.00*	*20*	*0.00*	*0.00*	-	o	*1.000*	17	*0.00*	*0.00*	*20*	*0.00*	*0.00*	-	o	*1.000*
31252C/31252	2	17	0.00	0.00	18	0.00	0.00	-	o	1.000	17	0.00	0.00	18	0.00	0.00	-	o	1.000	17	0.00	0.00	18	0.00	0.00	-	o	1.000
99826C/33141	2	21	0.00	0.00	14	0.00	0.00	-	o	1.000	21	0.00	0.00	14	0.00	0.00	-	o	1.000	21	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.05	0.05		-			0.00	0.00		0.05	0.05		-			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.458	Power		---		Power-50%		---	P-value		0.458	Power		---		Power-50%		---	P-value		0.698
Stouffer's	Power		---		Power-50%		---	P-value		0.217	Power		---		Power-50%		---	P-value		0.217	Power		---		Power-50%		---	P-value		0.500
30196C/30196	3	14	11.08	4.18	17	1.69	0.65	-	-	0.070	14	0.09	0.09	17	1.69	0.65	-	-	0.025	14	0.00	0.00	17	0.00	0.00	-	o	1.000
31252C/31248	3	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000
31252C/31252	3	17	0.00	0.00	18	0.00	0.00	-	o	1.000	17	0.00	0.00	18	0.00	0.00	-	o	1.000	17	0.00	0.00	18	0.00	0.00	-	o	1.000
99826C/33141	3	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			2.77	1.05		0.42	0.17		-			0.02	0.02		0.42	0.17		-			0.00	0.00		0.00	0.00		o	
Fisher's	Power		0.096		Power-50%		0.033	P-value		0.210	Power		0.138		Power-50%		---	P-value		0.116	Power		---		Power-50%		---	P-value		0.698
Stouffer's	Power		---		Power-50%		---	P-value		0.072	Power		---		Power-50%		---	P-value		0.036	Power		---		Power-50%		---	P-value		0.500

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.116. Algal Percent Cover. Chlorophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Undisturbed. (Continued.)

		Cladophora sp. (AE)								Ulothrix sp. (AE)								Urospora sp. (AE)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000
31252C/31248	1	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000
31252C/31252	1	18	0.00	0.00	18	0.00	0.00	-	o	1.000	18	0.00	0.00	18	0.00	0.00	-	o	1.000	18	0.00	0.00	18	0.00	0.00	-	o	1.000
99826C/33141	1	20	0.00	0.00	16	0.00	0.00	-	o	1.000	20	0.00	0.00	16	0.00	0.00	-	o	1.000	20	0.00	0.00	16	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	16	0.00	0.00	18	0.00	0.00	-	o	1.000	16	0.00	0.00	18	0.00	0.00	-	o	1.000	16	0.00	0.00	18	0.00	0.00	-	o	1.000
31252C/31248	2	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000
31252C/31252	2	17	0.00	0.00	18	0.00	0.00	-	o	1.000	17	0.00	0.00	18	0.00	0.00	-	o	1.000	17	0.00	0.00	18	0.00	0.00	-	o	1.000
99826C/33141	2	21	0.00	0.00	14	0.00	0.00	-	o	1.000	21	0.00	0.00	14	0.00	0.00	-	o	1.000	21	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	14	0.00	0.00	17	0.00	0.00	-	o	1.000	14	8.13	3.61	17	0.00	0.00	-	+	0.026	14	2.86	2.86	17	0.00	0.00	-	+	0.336
31252C/31248	3	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000
31252C/31252	3	17	0.00	0.00	18	0.00	0.00	-	o	1.000	17	0.00	0.00	18	0.00	0.00	-	o	1.000	17	0.00	0.00	18	0.00	0.00	-	o	1.000
99826C/33141	3	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			2.03	0.90		0.00	0.00		+			0.72	0.72		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	0.059		Power-50%		0.106	P-value		0.116	Power	---		Power-50%		---	P-value		0.460
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.036	Power	---		Power-50%		---	P-value		0.219

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Tubular and Saccate Greens								Blidingia/Enteromorpha (AE) (a)															
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000									
31252C/31248	1	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000									
31252C/31252	1	18	0.00	0.00	18	0.00	0.00	-	o	1.000	18	0.00	0.00	18	0.00	0.00	-	o	1.000									
99826C/33141	1	20	0.00	0.00	16	0.00	0.00	-	o	1.000	20	0.00	0.00	16	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
30196C/30196	2	16	1.25	1.25	18	0.00	0.00	-	+	0.333	16	1.25	1.25	18	0.00	0.00	-	+	0.333									
31252C/31248	2	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000									
31252C/31252	2	17	0.00	0.00	18	0.00	0.00	-	o	1.000	17	0.00	0.00	18	0.00	0.00	-	o	1.000									
99826C/33141	2	21	0.00	0.00	14	0.00	0.00	-	o	1.000	21	0.00	0.00	14	0.00	0.00	-	o	1.000									
Habitat Means			0.33	0.33		0.00	0.00		-			0.33	0.33		0.00	0.00		+										
Fisher's		Power	---		Power-50%		---	P-value		0.459	Power	---		Power-50%		---	P-value		0.459	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.218	Power	---		Power-50%		---	P-value		0.218	Power	---		Power-50%		---	P-value		
30196C/30196	3	14	3.76	1.59	17	0.59	0.59	-	+	0.063	14	3.76	1.59	17	0.59	0.59	-	+	0.063									
31252C/31248	3	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000									
31252C/31252	3	17	0.00	0.00	18	0.00	0.00	-	o	1.000	17	0.00	0.00	18	0.00	0.00	-	o	1.000									
99826C/33141	3	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000									
Habitat Means			0.95	0.40		0.15	0.15		+			0.95	0.40		0.15	0.15		+										
Fisher's		Power	0.080		Power-50%		0.147	P-value		0.197	Power	0.076		Power-50%		0.118	P-value		0.197	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.067	Power	---		Power-50%		---	P-value		0.067	Power	---		Power-50%		---	P-value		

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.117. Algal Percent Cover. Phaeophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group: Bladed Browns								Alaria sp. (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	18	16.88	6.18	21	26.73	7.27	-	-	0.124	18	16.88	6.18	21	26.73	7.27	-	-	0.124	18	0.00	0.00	21	0.00	0.00	-	o	1.000
31252C/31248	1	18	21.33	7.30	20	16.31	6.94	-	+	0.531	18	21.33	7.30	20	16.31	6.94	-	+	0.531	18	0.00	0.00	20	0.00	0.00	-	o	1.000
31252C/31252	1	18	21.33	7.30	18	0.00	0.00	-	+	0.003	18	21.33	7.30	18	0.00	0.00	-	+	0.003	18	0.00	0.00	18	0.00	0.00	-	o	1.000
99826C/33141	1	20	1.88	1.17	16	4.69	2.03	-	-	0.118	20	1.88	1.17	16	4.69	2.03	-	-	0.118	20	0.00	0.00	16	0.00	0.00	-	o	1.000
Habitat Means			15.35	5.50		11.92	4.05		+			15.35	5.50		11.92	4.05		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.041	Power	---		Power-50%		---	P-value		0.041	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.083		Power-50%		0.856	P-value		0.496	Power	0.084		Power-50%		0.854	P-value		0.496	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	16	18.21	6.03	18	28.97	7.23	-	-	0.188	16	18.21	6.03	18	28.90	7.23	-	-	0.190	16	0.63	0.62	18	0.00	0.00	-	+	0.333
31252C/31248	2	17	24.79	8.32	20	16.94	6.06	-	+	0.452	17	24.79	8.32	20	16.94	6.06	-	+	0.452	17	0.00	0.00	20	0.00	0.00	-	o	1.000
31252C/31252	2	17	24.79	8.32	18	0.14	0.14	-	+	0.002	17	24.79	8.32	18	0.14	0.14	-	+	0.002	17	0.00	0.00	18	0.00	0.00	-	o	1.000
99826C/33141	2	21	22.15	6.22	14	9.91	4.97	-	+	0.139	21	22.15	6.22	14	9.91	4.97	-	+	0.139	21	0.12	0.12	14	0.00	0.00	-	+	0.329
Habitat Means			22.50	7.20		13.98	4.60		+			22.50	7.20		13.95	4.60		+			0.17	0.17		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.005	Power	---		Power-50%		---	P-value		0.005	Power	---		Power-50%		---	P-value		0.268
Stouffer's		Power	0.114		Power-50%		0.647	P-value		0.315	Power	0.113		Power-50%		0.695	P-value		0.313	Power	---		Power-50%		---	P-value		0.197
30196C/30196	3	14	33.31	7.79	17	29.68	6.61	-	+	0.583	14	33.31	7.79	17	29.61	6.59	-	+	0.580	14	2.06	1.87	17	2.65	1.45	-	-	0.715
31252C/31248	3	17	3.98	1.50	20	9.76	3.08	-	-	0.176	17	3.98	1.50	20	7.06	2.08	-	-	0.305	17	0.00	0.00	20	0.00	0.00	-	o	1.000
31252C/31252	3	17	3.98	1.50	18	29.52	9.07	-	-	0.030	17	3.98	1.50	18	29.24	8.98	-	-	0.030	17	0.00	0.00	18	0.00	0.00	-	o	1.000
99826C/33141	3	10	17.13	7.49	11	29.77	12.50	-	-	0.602	10	17.13	7.49	11	29.77	12.50	-	-	0.602	10	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			14.60	4.57		24.70	7.83		-			14.60	4.57		23.92	7.55		-			0.52	0.48		0.67	0.38		-	
Fisher's		Power	---		Power-50%		---	P-value		0.037	Power	---		Power-50%		---	P-value		0.054	Power	0.000		Power-50%		0.000	P-value		0.623
Stouffer's		Power	0.410		Power-50%		0.854	P-value		0.158	Power	0.365		Power-50%		0.827	P-value		0.199	Power	0.007		Power-50%		0.004	P-value		0.385

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Fucus gardneri (F)								Adult Fucus gardneri (F) (> 2cm)								Juvenile Fucus gardneri (F) (<= 2cm)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	18	16.88	6.18	21	26.73	7.27	-	-	0.124	18	16.74	6.20	21	25.12	7.49	-	-	0.261	18	0.14	0.14	21	1.61	0.58	-	-	0.013
31252C/31248	1	18	21.33	7.30	20	16.31	6.94	-	+	0.531	18	20.84	7.27	20	16.19	6.95	-	+	0.526	18	0.49	0.31	20	0.13	0.12	-	+	0.272
31252C/31252	1	18	21.33	7.30	18	0.00	0.00	-	+	0.003	18	20.84	7.27	18	0.00	0.00	-	+	0.003	18	0.49	0.31	18	0.00	0.00	-	+	0.096
99826C/33141	1	20	1.88	1.17	16	4.69	2.03	-	-	0.118	20	1.88	1.17	16	2.74	1.38	-	-	0.627	20	0.00	0.00	16	1.96	1.03	-	-	0.034
Habitat Means			15.35	5.50		11.92	4.05		.			15.05	5.50		11.00	3.98		+			0.28	0.17		0.93	0.42		-	
Fisher's		Power	---		Power-50%		---	P-value		0.041	Power	---		Power-50%		---	P-value		0.033	Power	---		Power-50%		---	P-value		0.017x
Stouffer's		Power	0.079		Power-50%		0.826	P-value		0.496	Power	0.091		Power-50%		0.887	P-value		0.339	Power	0.215		Power-50%		0.323	P-value		0.146
30196C/30196	2	16	17.58	6.12	18	28.90	7.23	-	-	0.149	16	17.43	6.14	18	28.76	7.25	-	-	0.147	16	0.16	0.16	18	0.14	0.14	-	.	0.934
31252C/31248	2	17	24.79	8.32	20	16.94	6.06	-	+	0.452	17	24.79	8.32	20	16.88	6.05	-	+	0.449	17	0.00	0.00	20	0.07	0.07	-	-	0.330
31252C/31252	2	17	24.79	8.32	18	0.14	0.14	-	+	0.002	17	24.79	8.32	18	0.14	0.14	-	+	0.002	17	0.00	0.00	18	0.00	0.00	-	o	1.000
99826C/33141	2	21	22.03	6.20	14	9.91	4.97	-	+	0.140	21	22.03	6.20	14	9.74	4.93	-	-	0.136	21	0.00	0.00	14	0.18	0.18	-	-	0.336
Habitat Means			22.30	7.23		13.95	4.60		+			22.25	7.23		13.88	4.60		-			0.05	0.05		0.10	0.10		-	
Fisher's		Power	---		Power-50%		---	P-value		0.005	Power	---		Power-50%		---	P-value		0.005	Power	---		Power-50%		---	P-value		0.278
Stouffer's		Power	0.110		Power-50%		0.675	P-value		0.352	Power	0.100		Power-50%		0.665	P-value		0.353	Power	---		Power-50%		---	P-value		0.323
30196C/30196	3	14	31.17	7.53	17	26.96	6.49	-	+	0.533	14	30.99	7.59	17	26.81	6.44	-	+	0.585	14	0.18	0.18	17	0.15	0.10	-	+	0.886
31252C/31248	3	17	3.98	1.50	20	7.06	2.08	-	-	0.305	17	3.90	1.46	20	7.06	2.08	-	-	0.295	17	0.08	0.08	20	0.00	0.00	-	+	0.332
31252C/31252	3	17	3.98	1.50	18	29.24	8.98	-	-	0.030	17	3.90	1.46	18	29.24	8.98	-	-	0.029	17	0.08	0.08	18	0.00	0.00	-	+	0.332
99826C/33141	3	10	17.13	7.49	11	29.77	12.50	-	-	0.602	10	17.13	7.49	11	29.77	12.50	-	-	0.602	10	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			14.08	4.50		23.27	7.53		-			13.98	4.53		23.23	7.50		-			0.10	0.10		0.05	0.02		+	
Fisher's		Power	---		Power-50%		---	P-value		0.056	Power	---		Power-50%		---	P-value		0.052	Power	0.036		Power-50%		---	P-value		0.252
Stouffer's		Power	0.326		Power-50%		0.818	P-value		0.215	Power	0.269		Power-50%		0.868	P-value		0.193	Power	0.101		Power-50%		---	P-value		0.180

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.117. Algal Percent Cover. Phaeophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Undisturbed. (Continued.)

		Fucus Stipes (P) (a)								Morphological Group: Coarse Filamentous Browns								Myelophycus/Scytosiphon (A) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	18	0.00	0.00	21	0.06	0.06	-	-	0.329	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000
31252C/31248	1	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000
31252C/31252	1	18	0.00	0.00	18	0.00	0.00	-	o	1.000	18	0.00	0.00	18	0.00	0.00	-	o	1.000	18	0.00	0.00	18	0.00	0.00	-	o	1.000
99826C/33141	1	20	0.00	0.00	16	0.16	0.16	-	-	0.333	20	0.00	0.00	16	0.00	0.00	-	o	1.000	20	0.00	0.00	16	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.08	0.08		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.268	Power		---		Power-50%		---	P-value		0.698	Power		---		Power-50%		---	P-value		0.698
Stouffer's	Power		---		Power-50%		---	P-value		0.196	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value		0.500
30196C/30196	2	16	0.16	0.16	18	0.07	0.07	-	+	0.758	16	0.00	0.00	18	0.00	0.00	-	o	1.000	16	0.00	0.00	18	0.00	0.00	-	o	1.000
31252C/31248	2	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000
31252C/31252	2	17	0.00	0.00	18	0.00	0.00	-	o	1.000	17	0.00	0.00	18	0.00	0.00	-	o	1.000	17	0.00	0.00	18	0.00	0.00	-	o	1.000
99826C/33141	2	21	0.12	0.12	14	0.18	0.18	-	-	0.774	21	0.00	0.00	14	0.00	0.00	-	o	1.000	21	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.08	0.08		0.08	0.08		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.682 y	Power		---		Power-50%		---	P-value		0.698	Power		---		Power-50%		---	P-value		0.698
Stouffer's	Power		---		Power-50%		---	P-value		0.410	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value		0.500
30196C/30196	3	14	0.00	0.00	17	0.00	0.00	-	o	1.000	14	0.00	0.00	17	0.00	0.00	-	o	1.000	14	0.00	0.00	17	0.00	0.00	-	o	1.000
31252C/31248	3	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	1.75	1.51	-	-	0.203	17	0.00	0.00	20	1.75	1.51	-	-	0.203
31252C/31252	3	17	0.00	0.00	18	0.00	0.00	-	o	1.000	17	0.00	0.00	18	0.28	0.28	-	-	0.331	17	0.00	0.00	18	0.28	0.28	-	-	0.331
99826C/33141	3	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.53	0.45		-			0.00	0.00		0.53	0.45		-	
Fisher's	Power		---		Power-50%		---	P-value		0.698	Power	0.002			Power-50%		---	P-value		0.205	Power	0.003			Power-50%		---	P-value		0.205
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	0.000			Power-50%		---	P-value		0.173	Power	0.000			Power-50%		---	P-value		0.173

(a) Dead Fucus plants or stipes without blades.

(a) Genera not separated
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Fine Filamentous Browns								Fine Filamentous Browns (AE) (b)								Morphological Group: Crustose Browns							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000
31252C/31248	1	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000
31252C/31252	1	18	0.00	0.00	18	0.00	0.00	-	o	1.000	18	0.00	0.00	18	0.00	0.00	-	o	1.000	18	0.00	0.00	18	0.00	0.00	-	o	1.000
99826C/33141	1	20	0.00	0.00	16	0.00	0.00	-	o	1.000	20	0.00	0.00	16	0.00	0.00	-	o	1.000	20	0.00	0.00	16	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.698	Power		---		Power-50%		---	P-value		0.698	Power		---		Power-50%		---	P-value		0.698
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value		0.500
30196C/30196	2	16	0.00	0.00	18	0.00	0.00	-	o	1.000	16	0.00	0.00	18	0.00	0.00	-	o	1.000	16	0.00	0.00	18	0.07	0.07	-	-	0.331
31252C/31248	2	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000
31252C/31252	2	17	0.00	0.00	18	0.00	0.00	-	o	1.000	17	0.00	0.00	18	0.00	0.00	-	o	1.000	17	0.00	0.00	18	0.00	0.00	-	o	1.000
99826C/33141	2	21	0.00	0.00	14	0.00	0.00	-	o	1.000	21	0.00	0.00	14	0.00	0.00	-	o	1.000	21	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.02	0.02		-	
Fisher's	Power		---		Power-50%		---	P-value		0.698	Power		---		Power-50%		---	P-value		0.698	Power		---		Power-50%		---	P-value		0.458
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value		0.217
30196C/30196	3	14	0.00	0.00	17	0.00	0.00	-	o	1.000	14	0.00	0.00	17	0.00	0.00	-	o	1.000	14	0.00	0.00	17	0.08	0.08	-	-	0.332
31252C/31248	3	17	0.00	0.00	20	0.94	0.87	-	-	0.231	17	0.00	0.00	20	0.94	0.87	-	-	0.231	17	0.00	0.00	20	0.00	0.00	-	o	1.000
31252C/31252	3	17	0.00	0.00	18	0.00	0.00	-	o	1.000	17	0.00	0.00	18	0.00	0.00	-	o	1.000	17	0.00	0.00	18	0.00	0.00	-	o	1.000
99826C/33141	3	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.23	0.23		-			0.00	0.00		0.23	0.23		-			0.00	0.00		0.02	0.02		-	
Fisher's	Power		0.000		Power-50%		---	P-value		0.388	Power		0.000		Power-50%		---	P-value		0.388	Power		---		Power-50%		---	P-value		0.458
Stouffer's	Power		0.000		Power-50%		---	P-value		0.288	Power		0.000		Power-50%		---	P-value		0.288	Power		---		Power-50%		---	P-value		0.217

(b) Elachista, Ectocarpus and Pilayella.

Table C-5.117. Algal Percent Cover. Phaeophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Undisturbed. (Continued.)

		Ralfsia/Petroderma (P) (a)																							
Site Pair	Myd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
31252C/31248	1	18	0.00	0.00	20	0.00	0.00	-	o	1.000																		
31252C/31252	1	18	0.00	0.00	18	0.00	0.00	-	o	1.000																		
99826C/33141	1	20	0.00	0.00	16	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
30196C/30196	2	16	0.00	0.00	18	0.07	0.07	-	-	0.331																		
31252C/31248	2	17	0.00	0.00	20	0.00	0.00	-	o	1.000																		
31252C/31252	2	17	0.00	0.00	18	0.00	0.00	-	o	1.000																		
99826C/33141	2	21	0.00	0.00	14	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.02	0.02		-																			
Fisher's		Power	---		Power-50%		---	P-value		0.458	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.217	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
30196C/30196	3	14	0.00	0.00	17	0.08	0.08	-	-	0.332																		
31252C/31248	3	17	0.00	0.00	20	0.00	0.00	-	o	1.000																		
31252C/31252	3	17	0.00	0.00	18	0.00	0.00	-	o	1.000																		
99826C/33141	3	10	0.00	0.00	11	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.02	0.02		-																			
Fisher's		Power	---		Power-50%		---	P-value		0.458	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.217	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.118. Algal Percent Cover. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group: Bladed Reds								Gigartinaceae Group (P) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	18	3.27	2.32	21	5.48	3.03	-	-	0.689	18	0.98	0.62	21	2.74	1.72	-	-	0.590	18	0.98	0.62	21	1.73	1.44	-	-	0.975
31252C/31248	1	18	0.00	0.00	20	0.07	0.07	-	-	0.330	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000
31252C/31252	1	18	0.00	0.00	18	0.21	0.15	-	-	0.169	18	0.00	0.00	18	0.00	0.00	-	o	1.000	18	0.00	0.00	18	0.00	0.00	-	o	1.000
99826C/33141	1	20	0.38	0.38	16	0.00	0.00	-	+	0.330	20	0.00	0.00	16	0.00	0.00	-	o	1.000	20	0.00	0.00	16	0.00	0.00	-	o	1.000
Habitat Means			0.93	0.67		1.45	0.83		-			0.25	0.15		0.67	0.42		-			0.25	0.15		0.42	0.35		-	
Fisher's	Power		0.064		Power-50%		0.006	P-value		0.200	Power	0.000		Power-50%		0.001	P-value		0.580	Power	0.000		Power-50%		0.000	P-value		0.692
Stouffer's	Power		0.305		Power-50%		0.059	P-value		0.116	Power	0.009		Power-50%		0.050	P-value		0.332	Power	0.000		Power-50%		0.040	P-value		0.490
30196C/30196	2	16	13.52	5.79	18	30.15	7.70	-	-	0.046	16	9.93	5.24	18	19.03	5.85	-	-	0.155	16	3.53	2.36	18	17.02	5.39	-	-	0.012
31252C/31248	2	17	1.91	1.76	20	2.81	1.91	-	-	0.556	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000
31252C/31252	2	17	1.91	1.76	18	1.74	1.26	-	+	0.800	17	0.00	0.00	18	0.00	0.00	-	o	1.000	17	0.00	0.00	18	0.00	0.00	-	o	1.000
99826C/33141	2	21	1.37	0.64	14	2.14	0.94	-	-	0.467	21	0.36	0.26	14	0.54	0.54	-	-	0.947	21	0.12	0.12	14	0.00	0.00	-	+	0.329
Habitat Means			4.67	2.50		9.20	2.95		-			2.58	1.38		4.88	1.60		-			0.90	0.63		4.25	1.35		-	
Fisher's	Power		---		Power-50%		---	P-value		0.080	Power	0.071		Power-50%		0.157	P-value		0.311	Power	---		Power-50%		---	P-value		0.099
Stouffer's	Power		---		Power-50%		---	P-value		0.032	Power	0.203		Power-50%		0.319	P-value		0.125	Power	---		Power-50%		---	P-value		0.025
30196C/30196	3	14	15.99	4.09	17	35.30	6.54	-	-	0.023	14	13.76	4.09	17	22.14	4.09	-	-	0.085	14	0.81	0.43	17	11.84	3.00	-	-	0.000
31252C/31248	3	17	2.21	0.91	20	3.39	0.87	-	-	0.319	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000
31252C/31252	3	17	2.21	0.91	18	1.53	0.97	-	+	0.326	17	0.00	0.00	18	0.00	0.00	-	o	1.000	17	0.00	0.00	18	0.00	0.00	-	o	1.000
99826C/33141	3	10	11.88	6.89	11	0.23	0.23	-	+	0.070	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			8.07	3.20		10.10	2.15		-			3.45	1.02		5.53	1.02		-			0.20	0.10		2.95	0.75		-	
Fisher's	Power		0.167		Power-50%		0.955	P-value		0.112x	Power	0.040		Power-50%		0.092	P-value		0.233	Power	---		Power-50%		---	P-value		0.004
Stouffer's	Power		---		Power-50%		---	P-value		0.035	Power	---		Power-50%		---	P-value		0.082	Power	---		Power-50%		---	P-value		0.001

(a) Chondrus, Iridaea, Mastocarpus and Rhodoglossum.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Palmaria spp. (A)								Phycodrys riggii (A)								Porphyra sp. (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	1.01	1.01	-	-	0.329
31252C/31248	*1*	*18*	*0.00*	*0.00*	*20*	*0.00*	*0.00*	-	o	*1.000*	*18*	*0.00*	*0.00*	*20*	*0.00*	*0.00*	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000
31252C/31252	1	18	0.00	0.00	18	0.00	0.00	-	o	1.000	18	0.00	0.00	18	0.00	0.00	-	o	1.000	18	0.00	0.00	18	0.00	0.00	-	o	1.000
99826C/33141	1	20	0.00	0.00	16	0.00	0.00	-	o	1.000	20	0.00	0.00	16	0.00	0.00	-	o	1.000	20	0.00	0.00	16	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.25	0.25		-	
Fisher's	Power		---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.457
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.216
30196C/30196	2	16	4.84	4.84	18	2.02	1.60	-	+	0.843	16	1.56	1.56	18	0.00	0.00	-	+	0.333	16	0.00	0.00	18	0.00	0.00	-	o	1.000
31252C/31248	2	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	*1.000*	*17*	*0.00*	*0.00*	*20*	*0.00*	*0.00*	-	o	*1.000*
31252C/31252	2	17	0.00	0.00	18	0.00	0.00	-	o	1.000	17	0.00	0.00	18	0.00	0.00	-	o	1.000	17	0.00	0.00	18	0.00	0.00	-	o	1.000
99826C/33141	2	21	0.00	0.00	14	0.00	0.00	-	o	1.000	21	0.00	0.00	14	0.00	0.00	-	o	1.000	21	0.24	0.24	14	0.54	0.54	-	-	0.665
Habitat Means			1.20	1.20		0.50	0.40		+			0.40	0.40		0.00	0.00		+			0.05	0.05		0.13	0.13		-	
Fisher's	Power		0.000		Power-50%		---	P-value		0.660	Power	---		Power-50%		---	P-value		0.459	Power	---		Power-50%		---	P-value		0.607
Stouffer's	Power		0.001		Power-50%		---	P-value		0.437	Power	---		Power-50%		---	P-value		0.218	Power	---		Power-50%		---	P-value		0.487
30196C/30196	3	14	10.19	3.96	17	9.27	3.34	-	+	0.900	14	2.77	2.33	17	0.00	0.00	-	+	0.201	14	0.00	0.00	17	0.81	0.60	-	-	0.117
31252C/31248	3	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000
31252C/31252	3	17	0.00	0.00	18	0.00	0.00	-	o	1.000	17	0.00	0.00	18	0.00	0.00	-	o	1.000	17	0.00	0.00	18	0.00	0.00	-	o	1.000
99826C/33141	3	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			2.55	1.00		2.32	0.83		+			0.70	0.57		0.00	0.00		-			0.00	0.00		0.20	0.15		-	
Fisher's	Power		0.002		Power-50%		0.058	P-value		0.675	Power	0.000		Power-50%		0.001	P-value		0.364	Power	0.000		Power-50%		---	P-value		0.276
Stouffer's	Power		0.025		Power-50%		0.292	P-value		0.460	Power	0.007		Power-50%		0.015	P-value		0.152	Power	0.045		Power-50%		---	P-value		0.103

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.118. Algal Percent Cover. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Undisturbed. (Continued.)

		Tokidadendron kurilensis (A)								Morphological Group: Coarse Filamentous Reds								Cryptosiphonia woodii (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196 1		18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.77	0.56	21	0.42	0.42	-	+	0.443	18	0.00	0.00	21	0.00	0.00	-	o	1.000
31252C/31248 1		18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.07	0.07	-	-	0.330	18	0.00	0.00	20	0.00	0.00	-	o	1.000
31252C/31252 1		18	0.00	0.00	18	0.00	0.00	-	o	1.000	18	0.00	0.00	18	0.21	0.15	-	-	0.169	18	0.00	0.00	18	0.00	0.00	-	o	1.000
99826C/33141 1		20	0.00	0.00	16	0.00	0.00	-	o	1.000	20	0.38	0.38	16	0.00	0.00	-	+	0.330	20	0.00	0.00	16	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.30	0.25		0.17	0.17		-			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.698	Power	0.012		Power-50%		0.011	P-value		0.309 y	Power	---		Power-50%		---	P-value		0.698
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	0.054		Power-50%		0.049	P-value		0.399	Power	---		Power-50%		---	P-value		0.500
30196C/30196 2		16	0.00	0.00	18	0.00	0.00	-	o	1.000	16	2.59	0.98	18	6.68	2.14	-	-	0.129	16	0.08	0.08	18	0.07	0.07	-	+	0.934
31252C/31248 2		17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	1.91	1.76	20	2.81	1.91	-	-	0.556	17	0.00	0.00	20	0.00	0.00	-	o	1.000
31252C/31252 2		17	0.00	0.00	18	0.00	0.00	-	o	1.000	17	1.91	1.76	18	1.74	1.26	-	+	0.800	17	0.00	0.00	18	0.00	0.00	-	o	1.000
99826C/33141 2		21	0.00	0.00	14	0.00	0.00	-	o	1.000	21	0.90	0.58	14	1.61	0.85	-	-	0.384	21	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			1.83	1.30		3.20	1.55		-			0.02	0.02		0.02	0.02		+	
Fisher's	Power		---		Power-50%		---	P-value		0.698	Power	0.309		Power-50%		0.570	P-value		0.135	Power	---		Power-50%		---	P-value		0.683 y
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.070	Power	---		Power-50%		---	P-value		0.474
30196C/30196 3		14	0.00	0.00	17	0.22	0.16	-	-	0.169	14	1.07	1.07	17	5.08	1.80	-	-	0.027	14	0.00	0.00	17	1.47	0.71	-	-	0.029
31252C/31248 3		17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	1.84	0.87	20	2.89	0.83	-	-	0.280	17	0.00	0.00	20	0.25	0.25	-	-	0.330
31252C/31252 3		17	0.00	0.00	18	0.00	0.00	-	o	1.000	17	1.84	0.87	18	0.69	0.56	-	-	0.212	17	0.00	0.00	18	0.00	0.00	-	o	1.000
99826C/33141 3		10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	9.88	5.88	11	0.00	0.00	-	-	0.078	10	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.05	0.05		-			3.65	2.20		2.17	0.80		-			0.00	0.00		0.45	0.25		-	
Fisher's	Power		0.000		Power-50%		---	P-value		0.334	Power	0.183		Power-50%		0.857	P-value		0.116xy	Power	---		Power-50%		---	P-value		0.062
Stouffer's	Power		0.037		Power-50%		---	P-value		0.134	Power	---		Power-50%		---	P-value		0.043	Power	---		Power-50%		---	P-value		0.013

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Endocladia muricata (P)								Gloiopeltis furcata (A)								Neorhodomela/Rhodomela (P) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196 1		18	0.56	0.43	21	0.00	0.00	-	+	0.179	18	0.21	0.15	21	0.00	0.00	-	+	0.169	18	0.00	0.00	21	0.00	0.00	-	o	1.000
31252C/31248 1		18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.07	0.07	-	-	0.330	18	0.00	0.00	20	0.00	0.00	-	o	1.000
31252C/31252 1		18	0.00	0.00	18	0.07	0.07	-	-	0.331	18	0.00	0.00	18	0.00	0.00	-	o	1.000	18	0.00	0.00	18	0.14	0.14	-	-	0.331
99826C/33141 1		20	0.13	0.12	16	0.00	0.00	-	+	0.330	20	0.25	0.25	16	0.00	0.00	-	+	0.330	20	0.00	0.00	16	0.00	0.00	-	o	1.000
Habitat Means			0.17	0.12		0.02	0.02		+			0.13	0.13		0.02	0.02		+			0.00	0.00		0.02	0.02		-	
Fisher's	Power		0.007		Power-50%		0.002	P-value		0.253	Power	0.013		Power-50%		0.011	P-value		0.245	Power	---		Power-50%		---	P-value		0.458
Stouffer's	Power		0.013		Power-50%		0.020	P-value		0.210	Power	0.021		Power-50%		0.039	P-value		0.234	Power	---		Power-50%		---	P-value		0.364
30196C/30196 2		16	2.43	0.95	18	1.26	0.64	-	+	0.390	16	0.08	0.08	18	0.56	0.43	-	-	0.371	16	0.00	0.00	18	2.99	1.37	-	-	0.028
31252C/31248 2		17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.07	0.07	-	-	0.330	17	1.91	1.76	20	2.50	1.91	-	-	0.791
31252C/31252 2		17	0.00	0.00	18	0.14	0.10	-	-	0.163	17	0.00	0.00	18	0.07	0.07	-	-	0.331	17	1.91	1.76	18	1.53	1.26	-	+	0.940
99826C/33141 2		21	0.00	0.00	14	0.00	0.00	-	o	1.000	21	0.00	0.00	14	0.71	0.55	-	-	0.181	21	0.90	0.58	14	0.89	0.72	-	+	0.993
Habitat Means			0.60	0.25		0.35	0.17		-			0.02	0.02		0.38	0.30		-			1.18	1.05		1.98	1.33		-	
Fisher's	Power		0.003		Power-50%		0.205	P-value		0.412 y	Power	---		Power-50%		---	P-value		0.052	Power	0.198		Power-50%		0.092	P-value		0.111
Stouffer's	Power		0.006		Power-50%		0.565	P-value		0.577	Power	---		Power-50%		---	P-value		0.053	Power	---		Power-50%		---	P-value		0.031
30196C/30196 3		14	0.00	0.00	17	1.11	1.03	-	-	0.232	14	0.00	0.00	17	0.15	0.15	-	-	0.332	14	0.00	0.00	17	0.44	0.32	-	-	0.170
31252C/31248 3		17	0.15	0.15	20	0.00	0.00	-	+	0.332	17	0.15	0.15	20	0.69	0.40	-	-	0.197	17	1.11	0.68	20	1.95	0.77	-	-	0.334
31252C/31252 3		17	0.15	0.15	18	0.00	0.00	-	+	0.332	17	0.15	0.15	18	0.00	0.00	-	+	0.332	17	1.11	0.68	18	0.69	0.56	-	-	0.598
99826C/33141 3		10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.38	0.38	11	0.00	0.00	-	+	0.343	10	9.50	5.94	11	0.00	0.00	-	-	0.114
Habitat Means			0.10	0.10		0.27	0.25		+			0.20	0.20		0.23	0.15		-			2.93	1.82		0.78	0.42		+	
Fisher's	Power		0.000		Power-50%		---	P-value		0.358 y	Power	0.018		Power-50%		---	P-value		0.345	Power	0.038		Power-50%		0.485	P-value		0.369
Stouffer's	Power		0.000		Power-50%		---	P-value		0.565	Power	0.092		Power-50%		---	P-value		0.166	Power	0.000		Power-50%		0.030	P-value		0.895

(a) Genera not separated.
x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.118. Algal Percent Cover. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Undisturbed. (Continued.)

		Odonthalia floccosa (P)								Ptilota/Neoptilota (P) (b)								Morphological Group: Saccate Reds							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	18	0.00	0.00	21	0.42	0.42	-	-	0.329	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000
31252C/31248	1	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000
31252C/31252	1	18	0.00	0.00	18	0.00	0.00	-	o	1.000	18	0.00	0.00	18	0.00	0.00	-	o	1.000	18	0.00	0.00	18	0.00	0.00	-	o	1.000
99826C/33141	1	20	0.00	0.00	16	0.00	0.00	-	o	1.000	20	0.00	0.00	16	0.00	0.00	-	o	1.000	20	0.00	0.00	16	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.10	0.10		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.457	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's	Power		---		Power-50%		---	P-value		0.216	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	16	0.00	0.00	18	1.82	0.93	-	-	0.048	16	0.00	0.00	18	0.00	0.00	-	o	1.000	16	0.39	0.32	18	2.43	1.59	-	-	0.323
31252C/31248	2	17	0.00	0.00	20	0.25	0.25	-	-	0.330	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000
31252C/31252	2	17	0.00	0.00	18	0.00	0.00	-	o	1.000	17	0.00	0.00	18	0.00	0.00	-	o	1.000	17	0.00	0.00	18	0.00	0.00	-	o	1.000
99826C/33141	2	21	0.00	0.00	14	0.00	0.00	-	o	1.000	21	0.00	0.00	14	0.00	0.00	-	o	1.000	21	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.53	0.30		-			0.00	0.00		0.00	0.00		o			0.10	0.08		0.60	0.40		-	
Fisher's	Power		---		Power-50%		---	P-value		0.086	Power	---		Power-50%		---	P-value		0.698	Power	0.000		Power-50%		0.000	P-value		0.453
Stouffer's	Power		---		Power-50%		---	P-value		0.020	Power	---		Power-50%		---	P-value		0.500	Power	0.012		Power-50%		0.012	P-value		0.213
30196C/30196	3	14	1.07	1.07	17	1.76	1.32	-	-	0.510	14	0.00	0.00	17	0.15	0.15	-	-	0.332	14	0.71	0.41	17	4.12	2.86	-	-	0.267
31252C/31248	3	17	0.44	0.44	20	0.00	0.00	-	+	0.332	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000
31252C/31252	3	17	0.44	0.44	18	0.00	0.00	-	-	0.332	17	0.00	0.00	18	0.00	0.00	-	o	1.000	17	0.00	0.00	18	0.00	0.00	-	o	1.000
99826C/33141	3	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			0.48	0.48		0.45	0.33		+			0.00	0.00		0.05	0.05		-			0.17	0.10		1.02	0.72		-	
Fisher's	Power		0.006		Power-50%		---	P-value		0.329	Power	---		Power-50%		---	P-value		0.458	Power	0.003		Power-50%		0.020	P-value		0.415
Stouffer's	Power		0.068		Power-50%		---	P-value		0.394	Power	---		Power-50%		---	P-value		0.217	Power	0.067		Power-50%		0.177	P-value		0.185

(b) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Halosaccion glandiforme (A)								Morphological Group: Fine Filamentous Reds								Callithamnion pikeanum (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.24	0.24	-	-	0.329	18	0.00	0.00	21	0.00	0.00	-	o	1.000
31252C/31248	1	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000
31252C/31252	1	18	0.00	0.00	18	0.00	0.00	-	o	1.000	18	0.00	0.00	18	0.00	0.00	-	o	1.000	18	0.00	0.00	18	0.00	0.00	-	o	1.000
99826C/33141	1	20	0.00	0.00	16	0.00	0.00	-	o	1.000	20	0.00	0.00	16	0.00	0.00	-	o	1.000	20	0.00	0.00	16	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.05	0.05		-			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.457	Power	---		Power-50%		---	P-value		0.698
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.216	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	16	0.39	0.32	18	2.43	1.59	-	-	0.323	16	0.00	0.00	18	0.69	0.49	-	-	0.166	16	0.00	0.00	18	0.00	0.00	-	o	1.000
31252C/31248	2	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000
31252C/31252	2	17	0.00	0.00	18	0.00	0.00	-	o	1.000	17	0.00	0.00	18	0.00	0.00	-	o	1.000	17	0.00	0.00	18	0.00	0.00	-	o	1.000
99826C/33141	2	21	0.00	0.00	14	0.00	0.00	-	o	1.000	21	0.12	0.12	14	0.00	0.00	-	+	0.329	21	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.10	0.08		0.60	0.40		-			0.02	0.02		0.17	0.13		-			0.00	0.00		0.00	0.00		o	
Fisher's	Power		0.000		Power-50%		0.000	P-value		0.453	Power	0.001		Power-50%		---	P-value		0.422	Power	---		Power-50%		---	P-value		0.698
Stouffer's	Power		0.014		Power-50%		0.012	P-value		0.213	Power	0.040		Power-50%		---	P-value		0.148	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	14	0.71	0.41	17	4.12	2.86	-	-	0.267	14	0.00	0.00	17	1.76	0.90	-	-	0.050	14	0.00	0.00	17	0.08	0.08	-	-	0.332
31252C/31248	3	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.30	0.17	20	0.13	0.12	-	+	0.309	17	0.00	0.00	20	0.00	0.00	-	o	1.000
31252C/31252	3	17	0.00	0.00	18	0.00	0.00	-	o	1.000	17	0.30	0.17	18	0.83	0.83	-	-	0.979	17	0.00	0.00	18	0.00	0.00	-	o	1.000
99826C/33141	3	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	2.00	1.53	11	0.00	0.00	-	+	0.186	10	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			0.17	0.10		1.02	0.72		-			0.65	0.48		0.68	0.45		-			0.00	0.00		0.02	0.02		-	
Fisher's	Power		0.004		Power-50%		0.012	P-value		0.415	Power	0.041		Power-50%		0.479	P-value		0.314	Power	---		Power-50%		---	P-value		0.458
Stouffer's	Power		0.069		Power-50%		0.151	P-value		0.185	Power	0.175		Power-50%		0.079	P-value		0.155	Power	---		Power-50%		---	P-value		0.217

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.118. Algal Percent Cover. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Undisturbed. (Continued.)

Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
			Polysiphonia/Pterosiphonia (A) (a)								Morphological Group: Crustose Reds									Crustose Coralline Algae (P)								
30196C/30196	1	18	0.00	0.00	21	0.24	0.24	-	-	0.329	18	1.53	1.26	21	2.09	1.44	-	-	0.886	18	0.00	0.00	21	0.00	0.00	-	o	1.000
31252C/31248	1	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000
31252C/31252	1	18	0.00	0.00	18	0.00	0.00	-	o	1.000	18	0.00	0.00	18	0.00	0.00	-	o	1.000	18	0.00	0.00	18	0.00	0.00	-	o	1.000
99826C/33141	1	20	0.00	0.00	16	0.00	0.00	-	o	1.000	20	0.00	0.00	16	0.00	0.00	-	o	1.000	20	0.00	0.00	16	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.05	0.05		-			0.38	0.33		0.52	0.35		-			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.457	Power	0.000		Power-50%		0.000	P-value		0.671	Power	---		Power-50%		---	P-value		0.698
Stouffer's	Power		---		Power-50%		---	P-value		0.216	Power	0.003		Power-50%		0.011	P-value		0.454	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	16	0.00	0.00	18	0.69	0.49	-	-	0.166	16	0.63	0.63	18	1.32	0.60	-	-	0.227	16	0.00	0.00	18	0.00	0.00	-	o	1.000
31252C/31248	2	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000
31252C/31252	2	17	0.00	0.00	18	0.00	0.00	-	o	1.000	17	0.00	0.00	18	0.00	0.00	-	o	1.000	17	0.00	0.00	18	0.00	0.00	-	o	1.000
99826C/33141	2	21	0.12	0.12	14	0.00	0.00	-	+	0.329	21	0.00	0.00	14	0.00	0.00	-	o	1.000	21	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.02	0.02		0.17	0.13		-			0.15	0.15		0.33	0.15		-			0.00	0.00		0.00	0.00		o	
Fisher's	Power		0.000		Power-50%		---	P-value		0.422	Power	0.034		Power-50%		---	P-value		0.385	Power	---		Power-50%		---	P-value		0.698
Stouffer's	Power		0.041		Power-50%		---	P-value		0.148	Power	0.200		Power-50%		---	P-value		0.165	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	14	0.00	0.00	17	1.55	0.88	-	-	0.087	14	0.45	0.31	17	2.21	1.51	-	-	0.383	14	0.00	0.00	17	0.59	0.46	-	-	0.180
31252C/31248	3	17	0.30	0.17	20	0.13	0.12	-	+	0.309	17	0.08	0.08	20	0.38	0.38	-	-	0.646	17	0.08	0.08	20	0.00	0.00	-	-	0.332
31252C/31252	3	17	0.30	0.17	18	0.83	0.83	-	-	0.979	17	0.08	0.08	18	0.00	0.00	-	-	0.332	17	0.08	0.08	18	0.00	0.00	-	-	0.332
99826C/33141	3	10	2.00	1.53	11	0.00	0.00	-	+	0.186	10	0.00	0.00	11	0.23	0.23	-	-	0.341	10	0.00	0.00	11	0.23	0.23	-	-	0.341
Habitat Means			0.65	0.48		0.63	0.45		-			0.17	0.12		0.70	0.53		-			0.05	0.05		0.20	0.18		-	
Fisher's	Power		0.017		Power-50%		0.489	P-value		0.411 y	Power	0.044		Power-50%		0.059	P-value		0.304	Power	0.003		Power-50%		---	P-value		0.335
Stouffer's	Power		0.118		Power-50%		0.097	P-value		0.207	Power	0.079		Power-50%		0.243	P-value		0.261	Power	0.005		Power-50%		---	P-value		0.362

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
			Petrocelis (P)																									
30196C/30196	1	18	1.53	1.26	21	2.09	1.44	-	-	0.886																		
31252C/31248	1	18	0.00	0.00	20	0.00	0.00	-	o	1.000																		
31252C/31252	1	18	0.00	0.00	18	0.00	0.00	-	o	1.000																		
99826C/33141	1	20	0.00	0.00	16	0.00	0.00	-	o	1.000																		
Habitat Means			0.38	0.33		0.52	0.35		-																			
Fisher's	Power		0.000		Power-50%		0.000	P-value		0.671	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's	Power		0.004		Power-50%		0.008	P-value		0.454	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
30196C/30196	2	16	0.63	0.63	18	1.32	0.60	-	-	0.227																		
31252C/31248	2	17	0.00	0.00	20	0.00	0.00	-	o	1.000																		
31252C/31252	2	17	0.00	0.00	18	0.00	0.00	-	o	1.000																		
99826C/33141	2	21	0.00	0.00	14	0.00	0.00	-	o	1.000																		
Habitat Means			0.15	0.15		0.33	0.15		-																			
Fisher's	Power		0.025		Power-50%		---	P-value		0.385	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's	Power		0.193		Power-50%		---	P-value		0.165	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
30196C/30196	3	14	0.45	0.31	17	1.62	1.07	-	-	0.473																		
31252C/31248	3	17	0.00	0.00	20	0.38	0.38	-	-	0.330																		
31252C/31252	3	17	0.00	0.00	18	0.00	0.00	-	o	1.000																		
99826C/33141	3	10	0.00	0.00	11	0.00	0.00	-	o	1.000																		
Habitat Means			0.13	0.08		0.50	0.38		-																			
Fisher's	Power		0.018		Power-50%		0.001	P-value		0.321	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's	Power		0.183		Power-50%		0.055	P-value		0.151	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.119. Algal Percent Cover. Invertebrates. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Actiniidae								Balanomorpha								Lottiidae							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	24.73	6.56	21	3.51	1.29	-	+	0.006	18	0.00	0.00	21	0.00	0.00	-	o	1.000
31252C/31248	1	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	22.02	6.72	20	15.07	3.49	-	+	0.417	18	0.00	0.00	20	0.07	0.07	-	-	0.330
31252C/31252	1	18	0.00	0.00	18	0.00	0.00	-	o	1.000	18	22.02	6.72	18	63.21	6.52	-	-	0.000	18	0.00	0.00	18	0.35	0.25	-	-	0.166
99826C/33141	1	20	0.00	0.00	16	0.00	0.00	-	o	1.000	20	22.00	5.17	16	10.16	3.10	-	+	0.062	20	0.19	0.14	16	0.16	0.16	-	+	0.790
Habitat Means			0.00	0.00		0.00	0.00		o			22.68	6.30		23.00	3.60		+			0.05	0.02		0.17	0.15		-	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.005wy	Power	0.062		Power-50%		0.000	P-value		0.203
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.089	Power	0.002		Power-50%		0.000	P-value		0.176
30196C/30196	2	16	0.00	0.00	18	0.00	0.00	-	o	1.000	16	10.16	4.12	18	3.34	1.04	-	+	0.284	16	0.00	0.00	18	0.00	0.00	-	o	1.000
31252C/31248	2	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	42.51	8.34	20	41.64	7.22	-	+	0.845	17	0.00	0.00	20	0.00	0.00	-	o	1.000
31252C/31252	2	17	0.00	0.00	18	0.00	0.00	-	o	1.000	17	42.51	8.34	18	66.12	5.75	-	-	0.034	17	0.00	0.00	18	0.00	0.00	-	o	1.000
99826C/33141	2	21	0.00	0.00	14	0.00	0.00	-	o	1.000	21	39.53	5.49	14	10.36	3.41	-	+	0.000	21	0.00	0.00	14	0.09	0.09	-	-	0.336
Habitat Means			0.00	0.00		0.00	0.00		o			33.67	6.55		30.35	4.35		+			0.00	0.00		0.02	0.02		-	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.001x	Power	---		Power-50%		---	P-value		0.460
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.096		Power-50%		0.886	P-value		0.314	Power	---		Power-50%		---	P-value		0.472
30196C/30196	3	14	0.00	0.00	17	0.00	0.00	-	o	1.000	14	2.06	1.61	17	3.02	2.00	-	-	0.828	14	0.00	0.00	17	0.00	0.00	-	o	1.000
31252C/31248	3	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	45.23	9.04	20	47.88	6.07	-	-	0.815	17	0.15	0.15	20	0.00	0.00	-	-	0.332
31252C/31252	3	17	0.00	0.00	18	0.00	0.00	-	o	1.000	17	45.23	9.04	18	37.09	8.48	-	+	0.415	17	0.15	0.15	18	0.00	0.00	-	+	0.332
99826C/33141	3	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	9.75	4.72	11	5.23	4.26	-	+	0.319	10	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			25.58	6.08		23.30	5.23		+			0.10	0.10		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	0.071		Power-50%		0.724	P-value		0.348	Power	---		Power-50%		---	P-value		0.268
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.019		Power-50%		0.692	P-value		0.468	Power	---		Power-50%		---	P-value		0.212

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Mytilus								Littorinidae								Porifera							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
31252C/31248	1	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.42	0.25	20	0.07	0.07	-	+	0.205	18	0.00	0.00	20	0.00	0.00	-	o	1.000
31252C/31252	1	18	0.00	0.00	18	0.07	0.07	-	-	0.331	18	0.42	0.25	18	1.82	0.67	-	-	0.051	18	0.00	0.00	18	0.00	0.00	-	o	1.000
99826C/33141	1	20	0.13	0.12	16	0.00	0.00	-	+	0.330	20	0.88	0.28	16	1.18	0.55	-	-	0.992	20	0.00	0.00	16	0.00	0.00	-	o	1.000
Habitat Means			0.05	0.05		0.02	0.02		+			0.92	0.55		0.88	0.40		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.347	Power	0.124		Power-50%		0.939	P-value		0.321 y	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.306	Power	0.004		Power-50%		0.829	P-value		0.779	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	16	0.00	0.00	18	0.07	0.07	-	-	0.331	16	0.63	0.36	18	0.21	0.15	-	-	0.373	16	0.00	0.00	18	0.00	0.00	-	o	1.000
31252C/31248	2	17	0.44	0.24	20	0.19	0.14	-	+	0.413	17	0.59	0.29	20	1.07	0.33	-	-	0.287	17	0.00	0.00	20	0.00	0.00	-	o	1.000
31252C/31252	2	17	0.44	0.24	18	0.28	0.16	-	+	0.736	17	0.59	0.29	18	1.46	0.45	-	-	0.101	17	0.00	0.00	18	0.00	0.00	-	o	1.000
99826C/33141	2	21	3.51	1.48	14	0.27	0.19	-	+	0.033	21	0.60	0.29	14	0.45	0.31	-	-	0.737	21	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			1.08	0.48		0.23	0.15		+			0.60	0.33		0.83	0.33		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.089	Power	0.314		Power-50%		0.954	P-value		0.191	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.009		Power-50%		0.120	P-value		0.549	Power	0.075		Power-50%		0.889	P-value		0.367	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	14	0.00	0.00	17	0.00	0.00	-	o	1.000	14	0.00	0.00	17	0.15	0.15	-	-	0.332	14	0.00	0.00	17	0.00	0.00	-	o	1.000
31252C/31248	3	17	0.30	0.17	20	0.19	0.14	-	+	0.559	17	0.22	0.16	20	0.94	0.41	-	-	0.136	17	0.00	0.00	20	0.00	0.00	-	o	1.000
31252C/31252	3	17	0.30	0.17	18	0.28	0.19	-	+	0.770	17	0.22	0.16	18	0.14	0.14	-	+	0.612	17	0.00	0.00	18	0.00	0.00	-	o	1.000
99826C/33141	3	10	15.75	8.03	11	0.35	0.25	-	+	0.039	10	0.50	0.50	11	0.00	0.00	-	+	0.343	10	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			4.10	2.10		0.23	0.15		+			0.23	0.23		0.30	0.17		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.089	Power	0.118		Power-50%		0.144	P-value		0.260	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.017		Power-50%		0.069	P-value		0.299	Power	0.221		Power-50%		0.011	P-value		0.110	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.119. Algal Percent Cover. Invertebrates. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Undisturbed. (Continued.)

		Cnideria								Mollusca													
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P				
[illegible]																							
31252C/31248	1	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000				
31252C/31252	1	18	0.00	0.00	18	0.00	0.00	-	o	1.000	18	0.00	0.00	18	0.00	0.00	-	o	1.000				
99826C/33141	1	20	0.00	0.00	16	0.00	0.00	-	o	1.000	20	0.00	0.00	16	0.00	0.00	-	o	1.000				
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o					
Fisher's	Power	---		Power-50%	---	P-value	0.698	Power	---		Power-50%	---	P-value	0.698	Power	---	Power-50%	---	P-value				
Stouffer's	Power	---		Power-50%	---	P-value	0.500	Power	---		Power-50%	---	P-value	0.500	Power	---	Power-50%	---	P-value				
30196C/30196	2	16	0.16	0.16	18	0.00	0.00	-	+	0.333	16	0.00	0.00	18	0.00	0.00	-	o	1.000				
31252C/31248	2	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000				
31252C/31252	2	17	0.00	0.00	18	0.00	0.00	-	o	1.000	17	0.00	0.00	18	0.00	0.00	-	o	1.000				
99826C/33141	2	21	0.00	0.00	14	0.00	0.00	-	o	1.000	21	0.00	0.00	14	0.00	0.00	-	o	1.000				
Habitat Means			0.05	0.05		0.00	0.00		+			0.00	0.00		0.00	0.00		o					
Fisher's	Power	---		Power-50%	---	P-value	0.459	Power	---		Power-50%	---	P-value	0.698	Power	---	Power-50%	---	P-value				
Stouffer's	Power	---		Power-50%	---	P-value	0.218	Power	---		Power-50%	---	P-value	0.500	Power	---	Power-50%	---	P-value				
30196C/30196	3	14	0.00	0.00	17	0.00	0.00	-	o	1.000	14	0.00	0.00	17	0.00	0.00	-	o	1.000				
31252C/31248	3	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000				
31252C/31252	3	17	0.00	0.00	18	0.00	0.00	-	o	1.000	17	0.00	0.00	18	0.07	0.07	-	-	0.331				
99826C/33141	3	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000				
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.02	0.02		-					
Fisher's	Power	---		Power-50%	---	P-value	0.698	Power	---		Power-50%	---	P-value	0.458	Power	---	Power-50%	---	P-value				
Stouffer's	Power	---		Power-50%	---	P-value	0.500	Power	---		Power-50%	---	P-value	0.364	Power	---	Power-50%	---	P-value				

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.120. Algal Percent Cover. Substrates. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Rock								Mud								Sand							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	18	52.86	5.90	21	63.87	7.74	-	-	0.235	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.00	0.00	21	0.00	0.00	-	o	1.000
31252C/31248	1	18	55.98	7.96	20	68.44	6.50	-	-	0.255	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000
31252C/31252	1	18	55.98	7.96	18	34.39	6.77	-	+	0.033	18	0.00	0.00	18	0.00	0.00	-	o	1.000	18	0.00	0.00	18	0.00	0.00	-	o	1.000
99826C/33141	1	20	74.51	5.41	16	83.61	4.34	-	-	0.171	20	0.07	0.07	16	0.00	0.00	-	+	0.330	20	0.00	0.00	16	0.00	0.00	-	o	1.000
Habitat Means			59.85	6.83		62.58	6.33		-			0.02	0.02		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's	Power		0.199		Power-50%		0.999	P-value		0.100x	Power	---		Power-50%		---	P-value		0.457	Power	---		Power-50%		---	P-value		0.698
Stouffer's	Power		0.075		Power-50%		0.995	P-value		0.203	Power	---		Power-50%		---	P-value		0.472	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	16	55.71	9.37	18	37.01	7.67	-	+	0.095	16	0.00	0.00	18	0.00	0.00	-	o	1.000	16	0.00	0.00	18	0.00	0.00	-	o	1.000
31252C/31248	2	17	29.05	7.33	20	37.01	7.10	-	-	0.363	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000
31252C/31252	2	17	29.05	7.33	18	30.29	6.03	-	-	0.933	17	0.00	0.00	18	0.00	0.00	-	o	1.000	17	0.00	0.00	18	0.00	0.00	-	o	1.000
99826C/33141	2	21	28.93	4.38	14	74.92	7.09	-	-	0.000	21	1.01	0.70	14	0.00	0.00	-	+	0.163	21	1.31	0.91	14	0.45	0.45	-	+	0.600
Habitat Means			35.70	7.10		44.80	6.97		-			0.25	0.17		0.00	0.00		+			0.33	0.23		0.13	0.13		+	
Fisher's	Power		---		Power-50%		---	P-value		0.002x	Power	0.002		Power-50%		0.000	P-value		0.327	Power	0.000		Power-50%		0.000	P-value		0.584
Stouffer's	Power		0.053		Power-50%		0.700	P-value		0.728	Power	0.000		Power-50%		0.000	P-value		0.459	Power	0.000		Power-50%		0.000	P-value		0.485
30196C/30196	3	14	31.44	7.92	17	21.87	6.54	-	+	0.194	14	0.00	0.00	17	0.00	0.00	-	o	1.000	14	0.00	0.00	17	0.15	0.15	-	-	0.332
31252C/31248	3	17	47.51	8.36	20	35.44	6.01	-	+	0.401	17	0.00	0.00	20	0.25	0.25	-	-	0.330	17	0.00	0.00	20	0.00	0.00	-	o	1.000
31252C/31252	3	17	47.51	8.36	18	31.33	6.76	-	+	0.315	17	0.00	0.00	18	0.00	0.00	-	o	1.000	17	0.00	0.00	18	0.00	0.00	-	o	1.000
99826C/33141	3	10	13.25	5.41	11	63.75	12.78	-	-	0.002	10	6.50	5.21	11	0.00	0.00	-	+	0.154	10	11.25	9.94	11	0.00	0.00	-	+	0.250
Habitat Means			34.92	7.52		38.10	8.02		+			1.63	1.30		0.08	0.08		+			2.83	2.48		0.05	0.05		+	
Fisher's	Power		0.395		Power-50%		0.983	P-value		0.171xy	Power	0.000		Power-50%		0.000	P-value		0.408	Power	0.000		Power-50%		0.000	P-value		0.505
Stouffer's	Power		---		Power-50%		---	P-value		0.058	Power	0.000		Power-50%		0.000	P-value		0.637	Power	0.000		Power-50%		0.000	P-value		0.757

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Shell Fragments								Filamentous Diatoms								Zostera/Phyllospadix							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	18	0.00	0.00	21	0.00	0.00	-	o	1.000	18	0.14	0.14	21	0.00	0.00	-	+	0.331	18	0.00	0.00	21	0.00	0.00	-	o	1.000
31252C/31248	1	18	0.28	0.28	20	0.00	0.00	-	-	0.331	18	0.00	0.00	20	0.00	0.00	-	o	1.000	18	0.00	0.00	20	0.00	0.00	-	o	1.000
31252C/31252	1	18	0.28	0.28	18	0.00	0.00	-	+	0.331	18	0.00	0.00	18	0.00	0.00	-	o	1.000	18	0.00	0.00	18	0.00	0.00	-	o	1.000
99826C/33141	1	20	0.00	0.00	16	0.08	0.08	-	-	0.333	20	0.00	0.00	16	0.00	0.00	-	o	1.000	20	0.00	0.00	16	0.00	0.00	-	o	1.000
Habitat Means			0.15	0.15		0.02	0.02		-			0.02	0.02		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.347	Power	---		Power-50%		---	P-value		0.458	Power	---		Power-50%		---	P-value		0.698
Stouffer's	Power		---		Power-50%		---	P-value		0.233	Power	---		Power-50%		---	P-value		0.217	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	16	0.00	0.00	18	0.00	0.00	-	o	1.000	16	0.00	0.00	18	0.00	0.00	-	o	1.000	16	0.00	0.00	18	0.00	0.00	-	o	1.000
31252C/31248	2	17	0.74	0.60	20	0.38	0.27	-	+	0.707	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.00	0.00	20	0.00	0.00	-	o	1.000
31252C/31252	2	17	0.74	0.60	18	0.00	0.00	-	+	0.189	17	0.00	0.00	18	0.00	0.00	-	o	1.000	17	0.00	0.00	18	0.00	0.00	-	o	1.000
99826C/33141	2	21	0.78	0.37	14	0.54	0.32	-	+	0.856	21	0.00	0.00	14	0.00	0.00	-	o	1.000	21	0.00	0.00	14	0.00	0.00	-	o	1.000
Habitat Means			0.55	0.40		0.23	0.15		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		0.087		Power-50%		0.268	P-value		0.273	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's	Power		0.003		Power-50%		0.008	P-value		0.255	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	14	0.00	0.00	17	0.22	0.16	-	-	0.169	14	0.00	0.00	17	1.25	1.04	-	-	0.194	14	0.00	0.00	17	0.00	0.00	-	o	1.000
31252C/31248	3	17	0.37	0.21	20	0.82	0.45	-	-	0.583	17	0.00	0.00	20	0.00	0.00	-	o	1.000	17	0.08	0.08	20	0.00	0.00	-	+	0.332
31252C/31252	3	17	0.37	0.21	18	0.00	0.00	-	+	0.086	17	0.00	0.00	18	0.00	0.00	-	o	1.000	17	0.08	0.08	18	0.00	0.00	-	+	0.332
99826C/33141	3	10	1.00	0.55	11	0.46	0.26	-	+	0.571	10	0.00	0.00	11	0.00	0.00	-	o	1.000	10	0.00	0.00	11	0.00	0.00	-	o	1.000
Habitat Means			0.45	0.25		0.38	0.25		+			0.00	0.00		0.33	0.25		-			0.05	0.05		0.00	0.00		+	
Fisher's	Power		0.095		Power-50%		0.714	P-value		0.290	Power	0.000		Power-50%		---	P-value		0.357	Power	---		Power-50%		---	P-value		0.268
Stouffer's	Power		0.000		Power-50%		0.161	P-value		0.761	Power	0.008		Power-50%		---	P-value		0.148	Power	---		Power-50%		---	P-value		0.212

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.120. Algal Percent Cover. Totals and Seasonal Groups. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Undisturbed. (Continued.)

		Sand and Mud								Total Substrate															
Site Pair	Mud	N	C	SE	N	Q	SE	CV	D	P	N	C	SE	N	Q	SE	CV	D	P	N	C	SE	N	Q	SE	CV	D	P
30196C/30196 1	1	16	0.00	0.00	22	0.00	0.00	-	=	1.000																		
31252C/31248 1	1	18	0.28	0.28	20	0.00	0.00	-	+	0.331	18	56.26	7.88	20	68.44	6.50	-	-	0.263									
31252C/31252 1	1	18	0.28	0.28	18	0.00	0.00	-	+	0.331	18	56.26	7.88	18	34.39	6.77	-	+	0.031									
99826C/33141 1	1	20	0.07	0.07	16	0.08	0.08	-	-	0.875	20	74.57	5.41	16	83.68	4.36	-	-	0.157									
Habitat Means			0.17	0.17		0.02	0.02		+			60.03	6.77		62.60	6.35		-										
Fisher's	Power		---		Power-50%		---	P-value		0.285	Power	---		Power-50%		---	P-value		0.097x	Power	---		Power-50%		---	P-value		
Stouffer's	Power		---		Power-50%		---	P-value		0.215	Power	0.064		Power-50%		0.992	P-value		0.209	Power	---		Power-50%		---	P-value		
30196C/30196 2	2	16	0.00	0.00	18	0.00	0.00	-	o	1.000	16	55.71	9.37	18	37.01	7.67	-	+	0.095									
31252C/31248 2	2	17	0.74	0.60	20	0.38	0.27	-	+	0.707	17	29.79	7.37	20	37.38	7.08	-	-	0.388									
31252C/31252 2	2	17	0.74	0.60	18	0.00	0.00	-	+	0.189	17	29.79	7.37	18	30.29	6.03	-	-	0.975									
99826C/33141 2	2	21	3.10	1.30	14	0.99	0.51	-	+	0.397	21	32.03	4.03	14	75.89	7.25	-	-	0.000									
Habitat Means			1.13	0.63		0.35	0.20		+			36.82	7.05		45.15	7.02		-										
Fisher's	Power		0.178		Power-50%		0.370	P-value		0.179	Power	---		Power-50%		---	P-value		0.002x	Power	---		Power-50%		---	P-value		
Stouffer's	Power		0.005		Power-50%		0.005	P-value		0.240	Power	0.062		Power-50%		0.663	P-value		0.741	Power	---		Power-50%		---	P-value		
30196C/30196 3	3	14	0.00	0.00	17	0.37	0.21	-	-	0.086	14	31.44	7.92	17	22.24	6.55	-	+	0.205									
31252C/31248 3	3	17	0.37	0.21	20	1.06	0.49	-	-	0.351	17	47.88	8.45	20	36.51	5.90	-	+	0.465									
31252C/31252 3	3	17	0.37	0.21	18	0.00	0.00	-	+	0.086	17	47.88	8.45	18	31.33	6.76	-	+	0.300									
99826C/33141 3	3	10	18.75	10.30	11	0.46	0.26	-	+	0.051	10	32.00	9.16	11	64.22	12.90	-	+	0.067									
Habitat Means			4.90	2.67		0.50	0.25		+			39.80	8.52		38.55	8.05		+										
Fisher's	Power		---		Power-50%		---	P-value		0.080x	Power	0.390		Power-50%		0.955	P-value		0.184x	Power	---		Power-50%		---	P-value		
Stouffer's	Power		0.000		Power-50%		0.053	P-value		0.856	Power	---		Power-50%		---	P-value		0.055	Power	---		Power-50%		---	P-value		

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.121. Algal Percent Cover. Totals and Seasonal Groups. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; Power = power to detect given difference; Power-50% = **power to detect a 50% difference; dashes = insufficient data.**

		Algal Diversity Index (a)									Algal Taxa Richness (b)										Total Algae									
Site Pair	Mvd	N	C	SE	N	O	SE		CV	D	P	N	C	SE	N	O	SE		CV	D	P	N	C	SE	N	O	SE		CV	D	P
13.1C/13.1	1	7	0.00	0.00	9	0.00	0.00	-	-	o	1.000	7	0.00	0.00	9	0.00	0.00	-	-	o	1.000	7	0.00	0.00	9	0.00	0.00	-	-	o	1.000
94935C/31288	1	19	0.00	0.00	6	0.00	0.00	-	-	o	1.000	19	0.42	0.12	6	0.00	0.00	-	-	+	0.002	19	9.22	3.27	6	0.00	0.00	-	-	+	0.004
Habitat Means			0.00	0.00		0.00	0.00			o			0.21	0.06		0.00	0.00			+			4.60	1.65		0.00	0.00			+	
Fisher's		Power	---		Power-50%		---	P-value			0.597	Power	---		Power-50%		---	P-value			0.004	Power	---		Power-50%		---	P-value			0.008
Stouffer's		Power	---		Power-50%		---	P-value			0.500	Power	---		Power-50%		---	P-value			0.001	Power	---		Power-50%		---	P-value			0.002
13.1C/13.1	2	6	0.00	0.00	12	0.00	0.00	-	-	o	1.000	6	0.17	0.17	12	0.00	0.00	-	-	+	0.363	6	0.22	0.22	12	0.00	0.00	-	-	+	0.363
94935C/31288	2	18	0.05	0.03	6	0.00	0.00	-	-	+	0.184	18	0.89	0.39	6	0.17	0.17	-	-	+	0.101	18	12.78	4.70	6	0.63	0.63	-	-	+	0.012
Habitat Means			0.02	0.02		0.00	0.00			+			0.53	0.28		0.08	0.08			+			6.50	2.45		0.30	0.30			+	
Fisher's		Power	0.030		Power-50%		0.026	P-value			0.188	Power	---		Power-50%		---	P-value			0.052	Power	---		Power-50%		---	P-value			0.009
Stouffer's		Power	---		Power-50%		---	P-value			0.093	Power	---		Power-50%		---	P-value			0.045	Power	---		Power-50%		---	P-value			0.005
13.1C/13.1	3	7	0.00	0.00	16	0.00	0.00	-	-	o	1.000	7	0.14	0.14	16	0.06	0.06	-	-	+	0.551	7	0.54	0.54	16	0.16	0.16	-	-	+	0.450
94935C/31288	3	13	0.12	0.06	5	0.00	0.00	-	-	+	0.059	13	1.85	0.54	5	0.00	0.00	-	-	+	0.005	13	28.28	9.53	5	0.00	0.00	-	-	+	0.002
Habitat Means			0.06	0.03		0.00	0.00			+			0.99	0.34		0.03	0.03			+			14.40	5.00		0.10	0.10			+	
Fisher's		Power	---		Power-50%		---	P-value			0.077	Power	---		Power-50%		---	P-value			0.006	Power	---		Power-50%		---	P-value			0.002
Stouffer's		Power	---		Power-50%		---	P-value			0.030	Power	---		Power-50%		---	P-value			0.002	Power	---		Power-50%		---	P-value			0.001

(a) Modified Shannon Index.
(b) Taxa richness calculations are explained in the methods.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Invertebrates									Rock										Perennials (P)									
Site Pair	Mvd	N	C	SE	N	O	SE		CV	D	P	N	C	SE	N	O	SE		CV	D	P	N	C	SE	N	O	SE		CV	D	P
13.1C/13.1	1	7	0.00	0.00	9	0.00	0.00	-	-	o	1.000	7	100.00	0.00	9	100.00	0.00	-	-	o	1.000	7	0.00	0.00	9	0.00	0.00	-	-	o	1.000
94935C/31288	1	19	6.78	2.70	6	0.00	0.00	-	-	+	0.001	19	83.75	4.69	6	66.67	21.08	-	-	+	0.585	19	9.22	3.27	6	0.00	0.00	-	-	+	0.004
Habitat Means			3.40	1.35		0.00	0.00			+			91.90	2.35		83.35	10.55			+			4.60	1.65		0.00	0.00			+	
Fisher's		Power	---		Power-50%		---	P-value			0.002	Power	0.264		Power-50%		1.000	P-value			0.427	Power	---		Power-50%		---	P-value			0.008
Stouffer's		Power	---		Power-50%		---	P-value			0.001	Power	0.056		Power-50%		1.000	P-value			0.293	Power	---		Power-50%		---	P-value			0.002
13.1C/13.1	2	6	0.42	0.42	12	2.50	1.79	-	-	-	0.569	6	99.38	0.62	12	97.40	1.88	-	-	+	0.628	6	0.22	0.22	12	0.00	0.00	-	-	+	0.363
94935C/31288	2	18	5.98	1.65	6	0.00	0.00	-	-	+	0.000	18	66.12	7.19	6	68.55	19.94	-	-	-	0.622	18	11.39	3.83	6	0.63	0.63	-	-	+	0.095
Habitat Means			3.20	1.05		1.25	0.90			+			82.75	3.90		83.00	10.90			-			5.80	2.00		0.30	0.30			+	
Fisher's		Power	---		Power-50%		---	P-value			0.001	Power	0.030		Power-50%		0.995	P-value			0.543	Power	---		Power-50%		---	P-value			0.050
Stouffer's		Power	---		Power-50%		---	P-value			0.000	Power	0.029		Power-50%		0.987	P-value			0.322	Power	---		Power-50%		---	P-value			0.042
13.1C/13.1	3	7	1.99	1.57	16	9.31	2.82	-	-	-	0.043	7	97.51	2.10	16	89.93	3.23	-	-	+	0.055	7	0.54	0.54	16	0.16	0.16	-	-	+	0.450
94935C/31288	3	13	3.67	1.01	5	0.00	0.00	-	-	+	0.001	13	58.67	9.45	5	91.00	9.00	-	-	-	0.024	13	22.22	7.62	5	0.00	0.00	-	-	+	0.001
Habitat Means			2.85	1.30		4.65	1.40			+			78.10	5.80		90.45	6.10			-			11.35	4.05		0.10	0.10			+	
Fisher's		Power	---		Power-50%		---	P-value			0.003xy	Power	---		Power-50%		---	P-value			0.063x	Power	---		Power-50%		---	P-value			0.001
Stouffer's		Power	---		Power-50%		---	P-value			0.001	Power	---		Power-50%		---	P-value			0.016	Power	---		Power-50%		---	P-value			0.001

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.121. Algal Percent Cover. Totals and Seasonal Groups. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Undisturbed. (Continued.)

		Annuals (A)								Ephemerals (AE)								Perennials (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	7	0.00	0.00	9	0.00	0.00	-	o	1.000	7	0.00	0.00	9	0.00	0.00	-	o	1.000									
94935C/31288	1	19	0.00	0.00	6	0.00	0.00	-	o	1.000	19	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
13.1C/13.1	2	6	0.00	0.00	12	0.00	0.00	-	o	1.000	6	0.00	0.00	12	0.00	0.00	-	o	1.000									
94935C/31288	2	18	1.39	1.39	6	0.00	0.00	-	+	0.331	18	0.69	0.69	6	0.00	0.00	-	+	0.331									
Habitat Means			0.70	0.70		0.00	0.00		+			0.35	0.35		0.00	0.00		+										
Fisher's		Power	---		Power-50%		---	P-value		0.289	Power	---		Power-50%		---	P-value		0.289	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.166	Power	---		Power-50%		---	P-value		0.166	Power	---		Power-50%		---	P-value		
13.1C/13.1	3	7	0.00	0.00	16	0.00	0.00	-	o	1.000	7	0.00	0.00	16	0.00	0.00	-	o	1.000									
94935C/31288	3	13	6.06	4.04	5	0.00	0.00	-	+	0.077	13	3.75	2.75	5	0.00	0.00	-	+	0.128									
Habitat Means			3.05	2.00		0.00	0.00		+			1.90	1.40		0.00	0.00		+										
Fisher's		Power	---		Power-50%		---	P-value		0.096	Power	0.019		Power-50%		0.013	P-value		0.142	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.039	Power	---		Power-50%		---	P-value		0.064	Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.122. Algal Percent Cover. Chlorophyta. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; Power = power to detect given difference; Power-50% = power to detect a 50% difference; dashes = insufficient data.

		Total Chlorophyta									Morphological Group: Bladed Greens										Bladed Greens (AE) (a)									
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
13.1C/13.1	1	7	0.00	0.00	9	0.00	0.00	-	o	1.000	7	0.00	0.00	9	0.00	0.00	-	o	1.000		7	0.00	0.00	9	0.00	0.00	-	o	1.000	
94935C/31288	1	19	0.00	0.00	6	0.00	0.00	-	o	1.000	19	0.00	0.00	6	0.00	0.00	-	o	1.000		19	0.00	0.00	6	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597		Power	---		Power-50%		---	P-value		0.597	
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500		Power	---		Power-50%		---	P-value		0.500	
13.1C/13.1	2	6	0.00	0.00	12	0.00	0.00	-	o	1.000	6	0.00	0.00	12	0.00	0.00	-	o	1.000		6	0.00	0.00	12	0.00	0.00	-	o	1.000	
94935C/31288	2	18	0.83	0.83	6	0.00	0.00	-	+	0.331	18	0.56	0.56	6	0.00	0.00	-	+	0.331		18	0.56	0.56	6	0.00	0.00	-	+	0.331	
Habitat Means			0.40	0.40		0.00	0.00		+			0.30	0.30		0.00	0.00		+				0.30	0.30		0.00	0.00		+		
Fisher's		Power	---		Power-50%		---	P-value		0.289	Power	---		Power-50%		---	P-value		0.289		Power	---		Power-50%		---	P-value		0.289	
Stouffer's		Power	---		Power-50%		---	P-value		0.166	Power	---		Power-50%		---	P-value		0.166		Power	---		Power-50%		---	P-value		0.166	
13.1C/13.1	3	7	0.00	0.00	16	0.00	0.00	-	o	1.000	7	0.00	0.00	16	0.00	0.00	-	o	1.000		7	0.00	0.00	16	0.00	0.00	-	o	1.000	
94935C/31288	3	13	2.22	2.02	5	0.00	0.00	-	+	0.228	13	2.22	2.02	5	0.00	0.00	-	+	0.228		13	2.22	2.02	5	0.00	0.00	-	+	0.228	
Habitat Means			1.10	1.00		0.00	0.00		+			1.10	1.00		0.00	0.00		+				1.10	1.00		0.00	0.00		+		
Fisher's		Power	0.002		Power-50%		0.000	P-value		0.220	Power	0.001		Power-50%		0.003	P-value		0.220		Power	0.002		Power-50%		0.004	P-value		0.220	
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.114	Power	0.000		Power-50%		0.000	P-value		0.114		Power	0.000		Power-50%		0.000	P-value		0.114	

(a) Kornmannia, Monostroma, Ulva and Ulvaria.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Fine Filamentous Greens									Chaetomorpha/Rhizoclonium (A) (a)																				
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
13.1C/13.1	1	7	0.00	0.00	9	0.00	0.00	-	o	1.000	7	0.00	0.00	9	0.00	0.00	-	o	1.000											
94935C/31288	1	19	0.00	0.00	6	0.00	0.00	-	o	1.000	19	0.00	0.00	6	0.00	0.00	-	o	1.000											
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o												
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597		Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500		Power	---		Power-50%		---	P-value			
13.1C/13.1	2	6	0.00	0.00	12	0.00	0.00	-	o	1.000	6	0.00	0.00	12	0.00	0.00	-	o	1.000											
94935C/31288	2	18	0.28	0.28	6	0.00	0.00	-	+	0.331	18	0.28	0.28	6	0.00	0.00	-	+	0.331											
Habitat Means			0.15	0.15		0.00	0.00		+			0.15	0.15		0.00	0.00		+												
Fisher's		Power	---		Power-50%		---	P-value		0.289	Power	---		Power-50%		---	P-value		0.289		Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		0.166	Power	---		Power-50%		---	P-value		0.166		Power	---		Power-50%		---	P-value			
13.1C/13.1	3	7	0.00	0.00	16	0.00	0.00	-	o	1.000	7	0.00	0.00	16	0.00	0.00	-	o	1.000											
94935C/31288	3	13	0.00	0.00	5	0.00	0.00	-	o	1.000	13	0.00	0.00	5	0.00	0.00	-	o	1.000											
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o												
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597		Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500		Power	---		Power-50%		---	P-value			

Table C-5.123. Algal Percent Cover. Phaeophyta. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; Power = power to detect given difference; Power-50% = **power to detect a 50% difference; dashes = insufficient data.**

		Total Phaeophyta									Morphological Group: Bladed Browns									Alaria sp. (A)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	7	0.00	0.00	9	0.00	0.00	-	o	1.000	7	0.00	0.00	9	0.00	0.00	-	o	1.000	7	0.00	0.00	9	0.00	0.00	-	o	1.000
94935C/31288	1	19	9.22	3.27	6	0.00	0.00	-	+	0.004	19	9.22	3.27	6	0.00	0.00	-	+	0.004	19	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			4.60	1.65		0.00	0.00		+			4.60	1.65		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---		P-value		0.008	Power	---		Power-50%	---		P-value		0.008	Power	---		Power-50%	---		P-value		0.597
Stouffer's		Power	---		Power-50%	---		P-value		0.002	Power	---		Power-50%	---		P-value		0.002	Power	---		Power-50%	---		P-value		0.500
13.1C/13.1	2	6	0.22	0.22	12	0.00	0.00	-	+	0.363	6	0.22	0.22	12	0.00	0.00	-	+	0.363	6	0.00	0.00	12	0.00	0.00	-	o	1.000
94935C/31288	2	18	11.32	3.97	6	0.63	0.63	-	+	0.102	18	10.98	3.78	6	0.63	0.63	-	+	0.099	18	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			5.75	2.10		0.30	0.30		+			5.60	2.00		0.30	0.30		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---		P-value		0.052	Power	---		Power-50%	---		P-value		0.052	Power	---		Power-50%	---		P-value		0.597
Stouffer's		Power	---		Power-50%	---		P-value		0.045	Power	---		Power-50%	---		P-value		0.044	Power	---		Power-50%	---		P-value		0.500
13.1C/13.1	3	7	0.54	0.54	16	0.00	0.00	-	+	0.356	7	0.54	0.54	16	0.00	0.00	-	+	0.356	7	0.00	0.00	16	0.00	0.00	-	o	1.000
94935C/31288	3	13	25.01	8.02	5	0.00	0.00	-	+	0.001	13	22.80	7.73	5	0.00	0.00	-	+	0.001	13	0.77	0.77	5	0.00	0.00	-	+	0.337
Habitat Means			12.75	4.25		0.00	0.00		+			11.65	4.10		0.00	0.00		+			0.40	0.40		0.00	0.00		+	
Fisher's		Power	---		Power-50%	---		P-value		0.001	Power	---		Power-50%	---		P-value		0.001	Power	---		Power-50%	---		P-value		0.293
Stouffer's		Power	---		Power-50%	---		P-value		0.000	Power	---		Power-50%	---		P-value		0.001	Power	---		Power-50%	---		P-value		0.169

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Fucus gardneri (P)									Adult Fucus gardneri (P) (> 2cm)									Juvenile Fucus gardneri (P) (<= 2cm)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	7	0.00	0.00	9	0.00	0.00	-	o	1.000	7	0.00	0.00	9	0.00	0.00	-	o	1.000	7	0.00	0.00	9	0.00	0.00	-	o	1.000
94935C/31288	1	19	9.22	3.27	6	0.00	0.00	-	+	0.004	19	9.08	3.20	6	0.00	0.00	-	+	0.004	19	0.13	0.13	6	0.00	0.00	-	+	0.331
Habitat Means			4.60	1.65		0.00	0.00		+			4.55	1.60		0.00	0.00		+			0.05	0.05		0.00	0.00		+	
Fisher's		Power	---		Power-50%	---		P-value		0.008	Power	---		Power-50%	---		P-value		0.008	Power	---		Power-50%	---		P-value		0.289
Stouffer's		Power	---		Power-50%	---		P-value		0.002	Power	---		Power-50%	---		P-value		0.002	Power	---		Power-50%	---		P-value		0.166
13.1C/13.1	2	6	0.22	0.22	12	0.00	0.00	-	+	0.363	6	0.22	0.22	12	0.00	0.00	-	+	0.363	6	0.00	0.00	12	0.00	0.00	-	o	1.000
94935C/31288	2	18	10.98	3.78	6	0.63	0.63	-	+	0.099	18	10.91	3.79	6	0.63	0.63	-	+	0.101	18	0.07	0.07	6	0.00	0.00	-	+	0.331
Habitat Means			5.60	2.00		0.30	0.30		+			5.55	2.00		0.30	0.30		+			0.05	0.05		0.00	0.00		+	
Fisher's		Power	---		Power-50%	---		P-value		0.052	Power	---		Power-50%	---		P-value		0.052	Power	---		Power-50%	---		P-value		0.289
Stouffer's		Power	---		Power-50%	---		P-value		0.044	Power	---		Power-50%	---		P-value		0.045	Power	---		Power-50%	---		P-value		0.166
13.1C/13.1	3	7	0.54	0.54	16	0.00	0.00	-	+	0.356	7	0.36	0.36	16	0.00	0.00	-	+	0.356	7	0.19	0.19	16	0.00	0.00	-	+	0.356
94935C/31288	3	13	22.03	7.51	5	0.00	0.00	-	+	0.001	13	21.07	7.69	5	0.00	0.00	-	+	0.003	13	0.96	0.67	5	0.00	0.00	-	+	0.168
Habitat Means			11.25	4.00		0.00	0.00		+			10.75	4.05		0.00	0.00		+			0.60	0.45		0.00	0.00		+	
Fisher's		Power	---		Power-50%	---		P-value		0.001	Power	---		Power-50%	---		P-value		0.002	Power	---		Power-50%	---		P-value		0.078
Stouffer's		Power	---		Power-50%	---		P-value		0.000	Power	---		Power-50%	---		P-value		0.001	Power	---		Power-50%	---		P-value		0.076

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.123. Algal Percent Cover. Phaeophyta. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Undisturbed. (Continued.)

		Fucus Stipes (P) (a)									Morphological Group: Coarse Filamentous Browns									Myelophycus/Scytosiphon (A) (a)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	7	0.00	0.00	9	0.00	0.00	-	o	1.000	7	0.00	0.00	9	0.00	0.00	-	o	1.000	7	0.00	0.00	9	0.00	0.00	-	o	1.000
94935C/31288	1	19	0.00	0.00	6	0.00	0.00	-	o	1.000	19	0.00	0.00	6	0.00	0.00	-	o	1.000	19	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	2	6	0.00	0.00	12	0.00	0.00	-	o	1.000	6	0.00	0.00	12	0.00	0.00	-	o	1.000	6	0.00	0.00	12	0.00	0.00	-	o	1.000
94935C/31288	2	18	0.14	0.14	6	0.00	0.00	-	+	0.331	18	0.21	0.21	6	0.00	0.00	-	+	0.331	18	0.21	0.21	6	0.00	0.00	-	+	0.331
Habitat Means			0.05	0.05		0.00	0.00		+			0.10	0.10		0.00	0.00		+			0.10	0.10		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.289	Power	---		Power-50%		---	P-value		0.289	Power	---		Power-50%		---	P-value		0.289
Stouffer's		Power	---		Power-50%		---	P-value		0.166	Power	---		Power-50%		---	P-value		0.166	Power	---		Power-50%		---	P-value		0.166
13.1C/13.1	3	7	0.00	0.00	16	0.00	0.00	-	o	1.000	7	0.00	0.00	16	0.00	0.00	-	o	1.000	7	0.00	0.00	16	0.00	0.00	-	o	1.000
94935C/31288	3	13	0.00	0.00	5	0.00	0.00	-	o	1.000	13	0.68	0.42	5	0.00	0.00	-	+	0.095	13	0.68	0.42	5	0.00	0.00	-	+	0.095
Habitat Means			0.00	0.00		0.00	0.00		o			0.35	0.20		0.00	0.00		+			0.35	0.20		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	0.086		Power-50%		0.069	P-value		0.113	Power	0.085		Power-50%		0.069	P-value		0.113
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.048	Power	---		Power-50%		---	P-value		0.048

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Fine Filamentous Browns									Fine Filamentous Browns (AE) (b)																
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	7	0.00	0.00	9	0.00	0.00	-	o	1.000	7	0.00	0.00	9	0.00	0.00	-	o	1.000									
94935C/31288	1	19	0.00	0.00	6	0.00	0.00	-	o	1.000	19	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
13.1C/13.1	2	6	0.00	0.00	12	0.00	0.00	-	o	1.000	6	0.00	0.00	12	0.00	0.00	-	o	1.000									
94935C/31288	2	18	0.14	0.14	6	0.00	0.00	-	+	0.331	18	0.14	0.14	6	0.00	0.00	-	+	0.331									
Habitat Means			0.05	0.05		0.00	0.00		+			0.05	0.05		0.00	0.00		+										
Fisher's		Power	---		Power-50%		---	P-value		0.289	Power	---		Power-50%		---	P-value		0.289	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.166	Power	---		Power-50%		---	P-value		0.166	Power	---		Power-50%		---	P-value		
13.1C/13.1	3	7	0.00	0.00	16	0.00	0.00	-	o	1.000	7	0.00	0.00	16	0.00	0.00	-	o	1.000									
94935C/31288	3	13	1.55	1.06	5	0.00	0.00	-	+	0.166	13	1.55	1.06	5	0.00	0.00	-	+	0.166									
Habitat Means			0.80	0.55		0.00	0.00		+			0.80	0.55		0.00	0.00		+										
Fisher's		Power	0.036		Power-50%		0.025	P-value		0.174	Power	0.036		Power-50%		0.040	P-value		0.174	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.084	Power	---		Power-50%		---	P-value		0.084	Power	---		Power-50%		---	P-value		

(b) Elachista, Ectocarpus and Pilayella.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.124. Algal Percent Cover. Rhodophyta. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; Power = power to detect given difference; Power-50% = power to detect a 50% difference; dashes = insufficient data.

		Total Rhodophyta								Morphological Group: Bladed Reds								Gigartinaceae Group (P) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	7	0.00	0.00	9	0.00	0.00	-	o	1.000	7	0.00	0.00	9	0.00	0.00	-	o	1.000	7	0.00	0.00	9	0.00	0.00	-	o	1.000
94935C/31288	1	19	0.00	0.00	6	0.00	0.00	-	o	1.000	19	0.00	0.00	6	0.00	0.00	-	o	1.000	19	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	2	6	0.00	0.00	12	0.00	0.00	-	o	1.000	6	0.00	0.00	12	0.00	0.00	-	o	1.000	6	0.00	0.00	12	0.00	0.00	-	o	1.000
94935C/31288	2	18	0.63	0.43	6	0.00	0.00	-	+	0.164	18	0.56	0.40	6	0.00	0.00	-	+	0.167	18	0.35	0.35	6	0.00	0.00	-	+	0.331
Habitat Means			0.30	0.20		0.00	0.00		+			0.30	0.20		0.00	0.00		+			0.20	0.20		0.00	0.00		+	
Fisher's		Power	0.042		Power-50%		0.032	P-value		0.172	Power	0.037		Power-50%		0 027	P-value		0.174	Power	---		Power-50%		---	P-value		0.289
Stouffer's		Power	---		Power-50%		---	P-value		0.082	Power	---		Power-50%		---	P-value		0.084	Power	---		Power-50%		---	P-value		0.166
13.1C/13.1	3	7	0.00	0.00	16	0.16	0.16	-	-	0.333	7	0.00	0.00	16	0.00	0.00	-	o	1.000	7	0.00	0.00	16	0.00	0.00	-	o	1.000
94935C/31288	3	13	1.06	0.60	5	0.00	0.00	-	+	0.088	13	0.77	0.44	5	0.00	0.00	-	+	0.087	13	0.19	0.19	5	0.00	0.00	-	+	0.337
Habitat Means			0.55	0.30		0.10	0.10		+			0.40	0.20		0.00	0.00		+			0.10	0.10		0.00	0.00		+	
Fisher's		Power	0.077		Power-50%		0.104	P-value		0.158	Power	0.142		Power-50%		115	P-value		0.105	Power	---		Power-50%		---	P-value		0.293
Stouffer's		Power	---		Power-50%		---	P-value		0.051	Power	---		Power-50%		---	P-value		0.044	Power	---		Power-50%		---	P-value		0.169

(a) Chondrus, Iridaea, Mastocarpus and Rhodoglossum.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Porphyra sp. (A)								Morphological Group: Coarse Filamentous Reds								Gloiopeltis furcata (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	7	0.00	0.00	9	0.00	0.00	-	o	1.000	7	0.00	0.00	9	0.00	0.00	-	o	1.000	7	0.00	0.00	9	0.00	0.00	-	o	1.000
94935C/31288	1	19	0.00	0.00	6	0.00	0.00	-	o	1.000	19	0.00	0.00	6	0.00	0.00	-	o	1.000	19	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	2	6	0.00	0.00	12	0.00	0.00	-	o	1.000	6	0.00	0.00	12	0.00	0.00	-	o	1.000	6	0.00	0.00	12	0.00	0.00	-	o	1.000
94935C/31288	2	18	0.21	0.21	6	0.00	0.00	-	+	0.331	18	0.07	0.07	6	0.00	0.00	-	+	0.331	18	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.10	0.10		0.00	0.00		+			0.05	0.05		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.289	Power	---		Power-50%		---	P-value		0.289	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.166	Power	---		Power-50%		---	P-value		0.166	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	3	7	0.00	0.00	16	0.00	0.00	-	o	1.000	7	0.00	0.00	16	0.16	0.16	-	-	0.333	7	0.00	0.00	16	0.00	0.00	-	o	1.000
94935C/31288	3	13	0.58	0.42	5	0.00	0.00	-	+	0.172	13	0.19	0.19	5	0.00	0.00	-	+	0.337	13	0.19	0.19	5	0.00	0.00	-	+	0.337
Habitat Means			0.30	0.20		0.00	0.00		+			0.10	0.10		0.10	0.10		-			0.10	0.10		0.00	0.00		+	
Fisher's		Power	0.028		Power-50%		0.016	P-value		0.179	Power	---		Power-50%		---	P-value		0.412 y	Power	---		Power-50%		---	P-value		0.293
Stouffer's		Power	---		Power-50%		---	P-value		0.087	Power	---		Power-50%		---	P-value		0.815	Power	---		Power-50%		---	P-value		0.169

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.124. Algal Percent Cover. Rhodophyta. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Undisturbed. (Continued.)

Site Pair	Mvd	Neorhodomela/Rhodomela (P) (a) N	C	SE	N	O	SE	CV	D	P	Odonthalia floccosa (P) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Saccate Reds N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	7	0.00	0.00	9	0.00	0.00	-	o	1.000	7	0.00	0.00	9	0.00	0.00	-	o	1.000	7	0.00	0.00	9	0.00	0.00	-	o	1.000
94935C/31288	1	19	0.00	0.00	6	0.00	0.00	-	o	1.000	19	0.00	0.00	6	0.00	0.00	-	o	1.000	19	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50%	---	P-value			0.597	Power ---			Power-50%	---	P-value			0.597	Power ---			Power-50%	---	P-value			0.597
Stouffer's		Power ---			Power-50%	---	P-value			0.500	Power ---			Power-50%	---	P-value			0.500	Power ---			Power-50%	---	P-value			0.500
13.1C/13.1	2	6	0.00	0.00	12	0.00	0.00	-	o	1.000	6	0.00	0.00	12	0.00	0.00	-	o	1.000	6	0.00	0.00	12	0.00	0.00	-	o	1.000
94935C/31288	2	18	0.00	0.00	6	0.00	0.00	-	o	1.000	18	0.07	0.07	6	0.00	0.00	-	+	0.331	18	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.05	0.05		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50%	---	P-value			0.597	Power ---			Power-50%	---	P-value			0.289	Power ---			Power-50%	---	P-value			0.597
Stouffer's		Power ---			Power-50%	---	P-value			0.500	Power ---			Power-50%	---	P-value			0.166	Power ---			Power-50%	---	P-value			0.500
13.1C/13.1	3	7	0.00	0.00	16	0.16	0.16	-	-	0.333	7	0.00	0.00	16	0.00	0.00	-	o	1.000	7	0.00	0.00	16	0.00	0.00	-	o	1.000
94935C/31288	3	13	0.00	0.00	5	0.00	0.00	-	o	1.000	13	0.00	0.00	5	0.00	0.00	-	o	1.000	13	0.10	0.10	5	0.00	0.00	-	+	0.337
Habitat Means			0.00	0.00		0.10	0.10		-			0.00	0.00		0.00	0.00		o			0.05	0.05		0.00	0.00		+	
Fisher's		Power ---			Power-50%	---	P-value			0.290	Power ---			Power-50%	---	P-value			0.597	Power ---			Power-50%	---	P-value			0.293
Stouffer's		Power ---			Power-50%	---	P-value			0.475	Power ---			Power-50%	---	P-value			0.500	Power ---			Power-50%	---	P-value			0.169

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Haloseccion glandiforme (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	7	0.00	0.00	9	0.00	0.00	-	o	1.000	7	0.00	0.00	9	0.00	0.00	-	o	1.000	7	0.00	0.00	9	0.00	0.00	-	o	1.000
94935C/31288	1	19	0.00	0.00	6	0.00	0.00	-	o	1.000	19	0.00	0.00	6	0.00	0.00	-	o	1.000	19	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50%	---	P-value			0.597	Power ---			Power-50%	---	P-value			0.597	Power ---			Power-50%	---	P-value			0.597
Stouffer's		Power ---			Power-50%	---	P-value			0.500	Power ---			Power-50%	---	P-value			0.500	Power ---			Power-50%	---	P-value			0.500
13.1C/13.1	2	6	0.00	0.00	12	0.00	0.00	-	o	1.000	6	0.00	0.00	12	0.00	0.00	-	o	1.000	6	0.00	0.00	12	0.00	0.00	-	o	1.000
94935C/31288	2	18	0.00	0.00	6	0.00	0.00	-	o	1.000	18	0.00	0.00	6	0.00	0.00	-	o	1.000	18	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50%	---	P-value			0.597	Power ---			Power-50%	---	P-value			0.597	Power ---			Power-50%	---	P-value			0.597
Stouffer's		Power ---			Power-50%	---	P-value			0.500	Power ---			Power-50%	---	P-value			0.500	Power ---			Power-50%	---	P-value			0.500
13.1C/13.1	3	7	0.00	0.00	16	0.00	0.00	-	o	1.000	7	0.00	0.00	16	0.00	0.00	-	o	1.000	7	0.00	0.00	16	0.00	0.00	-	o	1.000
94935C/31288	3	13	0.10	0.10	5	0.00	0.00	-	+	0.337	13	0.00	0.00	5	0.00	0.00	-	o	1.000	13	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.05	0.05		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50%	---	P-value			0.293	Power ---			Power-50%	---	P-value			0.597	Power ---			Power-50%	---	P-value			0.597
Stouffer's		Power ---			Power-50%	---	P-value			0.169	Power ---			Power-50%	---	P-value			0.500	Power ---			Power-50%	---	P-value			0.500

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.125. Algal Percent Cover. Invertebrates. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; Power = power to detect given difference; Power-50% = power to detect a 50% difference; dashes = insufficient data.

		Balanomorpha								Mytilus								Littorinidae							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	7	0.00	0.00	9	0.00	0.00	-	o	1.000	7	0.00	0.00	9	0.00	0.00	-	o	1.000	7	0.00	0.00	9	0.00	0.00	-	o	1.000
94935C/31288	1	19	6.72	2.71	6	0.00	0.00	-	+	0.002	19	0.00	0.00	6	0.00	0.00	-	o	1.000	19	0.07	0.07	6	0.00	0.00	-	+	0.331
Habitat Means			3.35	1.35		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.05	0.05		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.003	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.289
Stouffer's		Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.166
13.1C/13.1	2	6	0.42	0.42	12	1.04	0.84	-	-	0.767	6	0.00	0.00	12	0.00	0.00	-	o	1.000	6	0.00	0.00	12	1.46	1.46	-	-	0.339
94935C/31288	2	18	5.28	1.48	6	0.00	0.00	-	+	0.000	18	0.42	0.30	6	0.00	0.00	-	+	0.170	18	0.28	0.28	6	0.00	0.00	-	+	0.331
Habitat Means			2.85	0.95		0.50	0.40		+			0.20	0.15		0.00	0.00		+			0.15	0.15		0.75	0.75		+	
Fisher's		Power	---		Power-50%		---	P-value		0.001	Power	0.030		Power-50%		0.021	P-value		0.177	Power	---		Power-50%		---	P-value		0.411 y
Stouffer's		Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.085	Power	---		Power-50%		---	P-value		0.182
13.1C/13.1	3	7	1.99	1.57	16	4.93	1.31	-	-	0.123	7	0.00	0.00	16	0.78	0.55	-	-	0.166	7	0.00	0.00	16	3.60	1.39	-	-	0.001
94935C/31288	3	13	3.19	0.99	5	0.00	0.00	-	+	0.001	13	0.19	0.19	5	0.00	0.00	-	+	0.337	13	0.29	0.21	5	0.00	0.00	-	+	0.172
Habitat Means			2.60	1.30		2.45	0.65		+			0.10	0.10		0.40	0.30		-			0.15	0.10		1.80	0.70		-	
Fisher's		Power	---		Power-50%		---	P-value		0.004	Power	0.022		Power-50%		---	P-value		0.254	Power	---		Power-50%		---	P-value		0.004
Stouffer's		Power	---		Power-50%		---	P-value		0.001	Power	0.212		Power-50%		---	P-value		0.808	Power	0.997		Power-50%		0.000	P-value		0.876

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.126. Algal Percent Cover. Substrates. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; Power = power to detect given difference; Power-50% = power to detect a 50% difference; dashes = insufficient data.

		Rock								Mud								Sand							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	7	100.00	0.00	9	100.00	0.00	-	o	1.000	7	0.00	0.00	9	0.00	0.00	-	o	1.000	7	0.00	0.00	9	0.00	0.00	-	o	1.000
94935C/31288	1	19	83.75	4.69	6	66.67	21.08	-	+	0.585	19	0.00	0.00	6	0.00	0.00	-	o	1.000	19	0.26	0.18	6	33.33	21.08	-	-	0.187
Habitat Means			91.90	2.35		83.35	10.55		+			0.00	0.00		0.00	0.00		o			0.15	0.10		16.65	10.55		-	
Fisher's		Power	0.267		Power-50%		1.000	P-value		0.427	Power	---		Power-50%		---	P-value		0.597	Power	0.000		Power-50%		0.037	P-value		0.190
Stouffer's		Power	0.061		Power-50%		1.000	P-value		0.293	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.094
13.1C/13.1	2	6	99.38	0.62	12	97.40	1.88	-	+	0.628	6	0.00	0.00	12	0.00	0.00	-	o	1.000	6	0.00	0.00	12	0.00	0.00	-	o	1.000
94935C/31288	2	18	66.12	7.19	6	68.55	19.94	-	-	0.622	18	3.06	3.06	6	0.00	0.00	-	+	0.331	18	10.98	6.72	6	30.85	19.54	-	-	0.261
Habitat Means			82.75	3.90		83.00	10.90		-			1.55	1.55		0.00	0.00		+			5.50	3.35		15.45	9.75		-	
Fisher's		Power	0.037		Power-50%		1.000	P-value		0.543	Power	---		Power-50%		---	P-value		0.289	Power	0.204		Power-50%		0.010	P-value		0.243
Stouffer's		Power	0.032		Power-50%		0.979	P-value		0.322	Power	---		Power-50%		---	P-value		0.166	Power	0.000		Power-50%		0.000	P-value		0.131
13.1C/13.1	3	7	97.51	2.10	16	89.93	3.23	-	+	0.055	7	0.00	0.00	16	0.47	0.47	-	-	0.333	7	0.00	0.00	16	0.00	0.00	-	o	1.000
94935C/31288	3	13	58.67	9.45	5	91.00	9.00	-	-	0.024	13	0.00	0.00	5	0.00	0.00	-	o	1.000	13	8.28	5.55	5	9.00	9.00	-	-	0.946
Habitat Means			78.10	5.80		90.45	6.10		-			0.00	0.00		0.25	0.25		-			4.15	2.80		4.50	4.50		-	
Fisher's		Power	---		Power-50%		---	P-value		0.063x	Power	---		Power-50%		---	P-value		0.290	Power	0.032		Power-50%		0.087	P-value		0.577
Stouffer's		Power	---		Power-50%		---	P-value		0.016	Power	---		Power-50%		---	P-value		0.475	Power	0.000		Power-50%		0.000	P-value		0.473

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Shell Fragments								Filamentous Diatoms								Sand and Mud							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	7	0.00	0.00	9	0.00	0.00	-	o	1.000	7	0.00	0.00	9	0.00	0.00	-	o	1.000	7	0.00	0.00	9	0.00	0.00	-	o	1.000
94935C/31288	1	19	0.00	0.00	6	0.00	0.00	-	o	1.000	19	0.00	0.00	6	0.00	0.00	-	o	1.000	19	0.26	0.18	6	33.33	21.08	-	-	0.187
Habitat Means			0.00	0.00		*0.00*	*0.00*		o			*0.00*	*0.00*		0.00	0.00		o			0.15	0.10		16.65	10.55		-	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	0.000		Power-50%		0.041	P-value		0.190
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.094
13.1C/13.1	2	6	0.00	0.00	12	0.11	0.11	-	-	0.339	6	0.00	0.00	12	0.00	0.00	-	o	1.000	6	0.00	0.00	12	0.11	0.11	-	-	0.339
94935C/31288	2	18	0.70	0.38	6	0.00	0.00	-	+	0.052	18	0.28	0.28	6	0.00	0.00	-	+	0.331	18	14.73	7.04	6	30.85	19.54	-	-	0.441
Habitat Means			0.35	0.20		0.05	0.05		+			0.15	0.15		0.00	0.00		+			7.35	3.50		15.50	9.80		-	
Fisher's		Power	0.127		Power-50%		0.136	P-value		0.105	Power	---		Power-50%		---	P-value		0.289	Power	0.382		Power-50%		0.072	P-value		0.160
Stouffer's		Power	---		Power-50%		---	P-value		0.030	Power	---		Power-50%		---	P-value		0.166	Power	0.022		Power-50%		0.000	P-value		0.203
13.1C/13.1	*3*	*7*	*0.00*	*0.00*	*16*	*0.16*	*0.16*	-	-	0.333	7	0.00	0.00	16	0.00	0.00	-	o	1.000	7	0.00	0.00	16	0.63	0.48	-	-	0.180
94935C/31288	3	13	1.15	0.83	5	0.00	0.00	-	+	0.173	13	0.00	0.00	5	0.00	0.00	-	o	1.000	13	9.43	5.52	5	9.00	9.00	-	+	0.800
Habitat Means			0.60	0.40		0.10	0.10		+			0.00	0.00		0.00	0.00		o			4.70	2.75		4.80	4.75		-	
Fisher's		Power	0.015		Power-50%		0.019	P-value		0.261	Power	---		Power-50%		---	P-value		0.597	Power	0.149		Power-50%		0.192	P-value		0.212
Stouffer's		Power	---		Power-50%		---	P-value		0.097	Power	---		Power-50%		---	P-value		0.500	Power	0.139		Power-50%		0.000	P-value		0.567

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.126. Algal Percent Cover. Substrates. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Undisturbed. (Continued.)

Site Pair	Mvd	Total Substrate N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	7	100.00	0.00	9	100.00	0.00	-	o	1.000																		
94935C/31288	1	19	84.02	4.70	6	100.00	0.00	-	-	0.000																		
Habitat Means			92.00	2.35		100.00	0.00		-																			
Fisher's		Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
13.1C/13.1	2	6	99.38	0.62	12	97.50	1.79	-	+	0.634																		
94935C/31288	2	18	80.83	5.26	6	99.38	0.62	-	-	0.001																		
Habitat Means			90.10	2.95		98.45	1.20		-																			
Fisher's		Power	---		Power-50%		---	P-value		0.002	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
13.1C/13.1	3	7	97.51	2.10	16	90.56	2.87	-	+	0.057																		
94935C/31288	3	13	68.08	9.66	5	100.00	0.00	-	-	0.001																		
Habitat Means			82.80	5.90		95.30	1.45		-																			
Fisher's		Power	---		Power-50%		---	P-value		0.005x	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.127. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. May 1991. Cleared May 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Algal Diversity Index (a)							Algal Taxa Richness (b)							Total Algae						
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.10	0.06	6	0.04	0.04	-	+	0.480	6	1.00	0.37	6	1.00	0.45	-	o	1.000	6	26.25	12.63	6	27.92	16.50	-	-	0.977
453C/453	1	6	0.00	0.00	6	0.15	0.07	-	-	0.101	6	0.50	0.22	6	1.83	0.48	-	-	0.030	6	3.33	2.01	6	28.75	15.45	-	-	0.085
601C/601	1	6	0.05	0.05	6	0.00	0.00	-	+	0.363	6	0.50	0.34	6	0.17	0.17	-	+	0.401	6	6.67	4.27	6	3.75	3.75	-	+	0.586
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.33	0.21	6	0.17	0.17	-	+	0.549	6	5.83	4.90	6	1.67	1.67	-	+	0.482
1522C/1522	1	6	0.00	0.00	6	0.09	0.06	-	-	0.176	6	0.33	0.21	6	1.33	0.42	-	-	0.060	6	2.92	1.87	6	7.50	3.76	-	-	0.202
Habitat Means			0.03	0.02		0.06	0.03		-			0.53	0.27		0.90	0.34		-			9.00	5.14		13.94	8.26		-	
Fisher's		Power	0.138			Power-50%	0.016	P-value		0.215	Power	---			Power-50%	---	P-value		0.057	Power	0.165			Power-50%	1.757	P-value		0.193
Stouffer's		Power	0.353			Power-50%	0.000	P-value		0.200	Power	0.792			Power-50%	0.887	P-value		0.188	Power	0.283			Power-50%	1.781	P-value		0.305
4825C/1424	2	5	0.36	0.10	6	0.21	0.08	-	+	0.276	5	3.40	0.68	6	2.33	0.42	-	+	0.199	5	39.50	14.44	6	43.33	12.48	-	-	0.822
453C/453	2	6	0.28	0.10	6	0.13	0.09	-	+	0.321	6	3.00	0.97	6	1.50	0.76	-	-	0.251	6	37.92	13.31	6	10.00	4.96	-	+	0.105
601C/601	2	6	0.00	0.00	6	0.09	0.06	-	-	0.175	6	0.67	0.21	6	1.17	0.31	-	-	0.209	6	7.92	3.73	6	4.17	1.24	-	+	0.691
598C/598	2	6	0.04	0.04	6	0.00	0.00	-	+	0.363	6	0.67	0.33	6	0.67	0.21	-	o	1.000	6	3.33	1.67	6	9.58	4.30	-	-	0.296
1522C/1522	2	5	0.15	0.09	4	0.36	0.08	-	-	0.138	5	1.60	0.60	4	3.50	0.65	-	-	0.069	5	32.50	13.76	4	55.00	12.79	-	-	0.240
Habitat Means			0.17	0.07		0.16	0.06		+			1.87	0.56		1.83	0.47		-			24.22	9.38		24.42	7.16		-	
Fisher's		Power	0.161			Power-50%	0.689	P-value		0.330	Power	0.240			Power-50%	0.933	P-value		0.218 y	Power	0.125			Power-50%	0.691	P-value		0.373
Stouffer's		Power	0.097			Power-50%	0.543	P-value		0.223	Power	0.015			Power-50%	0.863	P-value		0.547	Power	0.006			Power-50%	0.640	P-value		0.446
4825C/1424	3	3	0.52	0.03	6	0.66	0.05	-	-	0.107	3	4.67	0.88	6	6.17	0.70	-	-	0.244	3	95.00	2.89	6	89.58	6.00	-	-	0.796
453C/453	3	5	0.50	0.06	4	0.07	0.07	-	+	0.002	5	4.40	0.51	4	0.50	0.50	-	+	0.001	5	74.50	10.20	4	1.88	1.88	-	-	0.001
601C/601	3	4	0.48	0.03	5	0.35	0.09	-	+	0.249	4	4.00	0.41	5	3.40	0.60	-	+	0.461	4	68.13	8.92	5	61.00	16.91	-	-	0.950
598C/598	3	6	0.35	0.08	6	0.33	0.12	-	+	0.907	6	3.17	0.60	6	3.17	0.95	-	o	1.000	6	45.00	13.92	6	63.75	15.65	-	-	0.359
1522C/1522	3	5	0.27	0.06	1	0.25	--	-	+	---	5	2.60	0.40	1	3.00	--	-	-	---	5	45.50	14.88	1	97.50	--	-	-	---
Habitat Means			0.42	0.05		0.33	0.08		+			3.77	0.56		3.25	0.69		+			65.62	10.16		62.76	10.13		+	
Fisher's		Power	---			Power-50%	---	P-value		0.013	Power	---			Power-50%	---	P-value		0.011	Power	---			Power-50%	---	P-value		0.013
Stouffer's		Power	---			Power-50%	---	P-value		0.036	Power	---			Power-50%	---	P-value		0.036	Power	0.723			Power-50%	3.964	P-value		0.127

(a) Modified Shannon Index.
(b) Taxa richness calculations are explained in the methods.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Invertebrates							Rock							Perennials (P						
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	11.67	10.24	-	-	0.243	6	73.75	12.63	6	60.42	16.36	-	+	0.569	6	22.92	12.56	6	10.83	10.34	-	+	0.354
453C/453	1	6	0.42	0.42	6	1.25	0.85	-	-	0.462	6	96.25	2.12	6	70.00	15.29	-	+	0.075	6	2.50	2.04	6	4.58	2.36	-	-	0.392
601C/601	1	6	3.33	1.67	6	0.83	0.53	-	+	0.292	6	90.00	4.23	6	93.33	4.17	-	-	0.539	6	5.00	3.71	6	0.00	0.00	-	+	0.195
598C/598	1	6	0.42	0.42	6	0.83	0.53	-	-	0.549	6	93.75	4.82	6	97.50	1.58	-	-	0.624	6	0.83	0.83	6	1.67	1.67	-	-	0.811
1522C/1522	1	6	7.50	6.06	6	6.25	2.87	-	+	0.963	6	89.58	5.72	6	86.25	5.69	-	+	0.635	6	2.92	1.87	6	3.75	2.41	-	-	0.378
Habitat Means			2.32	1.72		4.18	3.00		-			88.70	5.88		81.50	8.64		+			6.82	4.20		4.18	3.16		-	
Fisher's		Power	0.128			Power-50%	0.167	P-value		0.330	Power	0.347			Power-50%	1.000	P-value		0.238	Power	0.021			Power-50%	0.636	P-value		0.533 y
Stouffer's		Power	0.133			Power-50%	0.233	P-value		0.223	Power	0.321			Power-50%	1.000	P-value		0.275	Power	0.038			Power-50%	0.539	P-value		0.347
4825C/1424	2	5	1.50	1.50	6	13.33	9.03	-	-	0.341	5	59.00	14.20	6	43.33	11.91	-	+	0.392	5	5.50	1.46	6	15.42	7.40	-	-	0.379
453C/453	2	6	3.33	2.39	6	2.50	2.04	-	+	0.721	6	58.75	14.27	6	87.08	5.45	-	-	0.129	6	24.17	11.21	6	6.25	2.21	-	-	0.191
601C/601	2	6	0.83	0.83	6	10.00	4.96	-	-	0.033	6	91.25	4.12	6	85.83	5.61	-	+	0.438	6	4.17	2.47	6	3.33	1.05	-	-	0.766
598C/598	2	6	7.08	3.25	6	9.17	2.39	-	-	0.363	6	89.58	2.84	6	81.25	3.81	-	+	0.129	6	1.67	1.67	6	9.58	4.30	-	-	0.094
1522C/1522	2	5	3.50	2.32	4	3.13	1.57	-	+	0.890	5	64.00	14.97	4	31.25	13.71	-	+	0.144	5	22.00	7.72	4	14.38	4.83	-	-	0.721
Habitat Means			3.24	2.06		7.62	4.00		-			72.54	10.08		65.76	8.10		+			11.52	4.92		9.80	3.96		-	
Fisher's		Power	---			Power-50%	---	P-value		0.069	Power	---			Power-50%	---	P-value		0.071	Power	0.038			Power-50%	0.573	P-value		0.516x
Stouffer's		Power	0.177			Power-50%	0.498	P-value		0.132	Power	0.016			Power-50%	0.992	P-value		0.165	Power	0.068			Power-50%	0.439	P-value		0.721
4825C/1424	3	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	5.00	2.89	6	10.42	6.00	-	-	0.796	3	6.67	3.63	6	30.00	6.77	-	-	0.114
453C/453	3	5	1.00	0.61	4	0.00	0.00	-	+	0.178	5	24.50	9.79	4	98.12	1.87	-	-	0.001	5	31.50	11.22	4	1.25	1.25	-	+	0.017
601C/601	3	4	3.75	3.75	5	1.50	1.50	-	+	0.695	4	28.13	6.49	5	37.50	16.73	-	-	0.989	4	8.75	3.61	5	14.00	7.10	-	-	0.731
598C/598	3	6	4.17	1.90	6	2.08	1.36	-	+	0.359	6	45.83	14.21	6	34.17	14.46	-	-	0.521	6	7.92	2.53	6	20.00	6.16	-	-	0.226
1522C/1522	3	5	1.00	1.00	1	0.00	--	-	+	---	5	53.50	14.74	1	0.00	--	-	-	---	5	23.00	7.80	1	0.00	--	-	+	---
Habitat Means			2.00	1.46		0.72	0.72		-			31.38	9.62		36.04	9.78		-			15.58	5.74		13.06	5.35		-	
Fisher's		Power	0.178			Power-50%	0.274	P-value		0.162	Power	---			Power-50%	---	P-value		0.011	Power	0.180			Power-50%	0.831	P-value		0.146xy
Stouffer's		Power	---			Power-50%	---	P-value		0.060	Power	---			Power-50%	---	P-value		0.085	Power	0.000			Power-50%	0.850	P-value		0.513

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.127. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. May 1991. Cleared May 1990. (Continued.)

		Annuals (A)								Ephemerals (AE)																
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	3.33	2.86	6	17.08	13.30	-	-	0.340	6	0.00	0.00	6	17.08	13.30	-	-	0.167									
453C/453	1	6	0.83	0.83	6	24.17	13.19	-	-	0.063	6	0.00	0.00	6	22.08	13.30	-	-	0.082									
601C/601	1	6	1.67	1.67	6	3.75	3.75	-	-	0.776	6	1.67	1.67	6	0.00	0.00	-	-	0.363									
598C/598	1	6	5.00	5.00	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	1	6	0.00	0.00	6	3.75	3.75	-	-	0.363	6	0.00	0.00	6	3.33	3.33	-	-	0.363									
Habitat Means			2.16	2.08		9.78	6.82		-			0.34	0.34		8.50	5.98		-										
Fisher's		Power	---		Power-50%		---	P-value		0.095	Power	---		Power-50%		---	P-value		0.085	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.411		Power-50%		0.137	P-value		0.252	Power	0.352		Power-50%		---	P-value		0.137	Power	---		Power-50%		---	P-value		
4825C/1424	2	5	34.00	15.66	6	27.92	12.49	-	+	0.801	5	32.00	15.24	6	27.08	12.82	-	+	0.772									
453C/453	2	6	13.75	8.68	6	3.75	3.75	-	+	0.219	6	5.42	3.62	6	3.33	3.33	-	+	0.506									
601C/601	2	6	3.75	3.75	6	0.83	0.83	-	+	0.632	6	3.75	3.75	6	0.83	0.83	-	+	0.632									
598C/598	2	6	1.67	1.05	6	0.00	0.00	-	+	0.175	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	2	5	10.50	6.44	4	40.63	15.52	-	-	0.090	5	10.00	6.17	4	28.75	15.29	-	-	0.187									
Habitat Means			12.76	7.14		14.62	6.52		+			10.24	5.76		12.00	6.44		+										
Fisher's		Power	0.142		Power-50%		0.604	P-value		0.196xy	Power	0.020		Power-50%		0.305	P-value		0.576 y	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.067	Power	0.055		Power-50%		0.064	P-value		0.409	Power	---		Power-50%		---	P-value		
4825C/1424	3	3	88.33	6.51	6	59.58	2.77	-	+	0.006	3	80.83	10.83	6	46.25	2.94	-	+	0.145									
453C/453	3	5	43.00	5.72	4	0.63	0.63	-	+	0.000	5	23.00	8.85	4	0.63	0.63	-	+	0.040									
601C/601	3	4	59.38	7.66	5	47.00	16.00	-	+	0.594	4	51.88	8.32	5	44.00	16.74	-	+	0.709									
598C/598	3	6	37.08	14.21	6	43.75	13.81	-	-	0.778	6	35.42	13.62	6	40.00	13.21	-	-	0.821									
1522C/1522	3	5	22.50	12.67	1	97.50	--	-	-	---	5	20.00	12.72	1	95.00	--	-	-	---									
Habitat Means			50.06	9.36		49.70	8.30		+			42.22	10.86		45.18	8.35		+										
Fisher's		Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.040 y	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.008	Power	0.613		Power-50%		0.549	P-value		0.109	Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.128. Algal Percent Cover. Chlorophyta. Prince William Sound. Sheltered Rocky. May 1991. Cleared May 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group: Bladed Greens								Bladed Greens (AE) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	15.00	13.52	-	-	0.221	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	7.92	4.58	-	-	0.100	6	0.00	0.00	6	7.92	4.58	-	-	0.100	6	0.00	0.00	6	7.92	4.58	-	-	0.100
601C/601	1	6	1.67	1.67	6	0.00	0.00	-	+	0.363	6	1.67	1.67	6	0.00	0.00	-	+	0.363	6	1.67	1.67	6	0.00	0.00	-	+	0.363
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	3.33	3.33	-	-	0.363	6	0.00	0.00	6	3.33	3.33	-	-	0.363	6	0.00	0.00	6	3.33	3.33	-	-	0.363
Habitat Means			0.34	0.34		5.24	4.28		-			0.34	0.34		2.24	1.58		-			0.34	0.34		2.24	1.58		-	
Fisher's		Power	0.051		Power-50%		---	P-value		0.112	Power	0.007		Power-50%		---	P-value		0.248	Power	0.006		Power-50%		---	P-value		0.248
Stouffer's		Power	0.178		Power-50%		---	P-value		0.154	Power	0.134		Power-50%		---	P-value		0.197	Power	0.125		Power-50%		---	P-value		0.197
4825C/1424	2	5	8.50	3.02	6	5.00	4.52	-	+	0.288	5	5.00	2.62	6	4.58	4.58	-	+	0.550	5	5.00	2.62	6	4.58	4.58	-	+	0.550
453C/453	2	6	4.17	3.69	6	2.92	2.92	-	+	0.741	6	4.17	3.69	6	2.92	2.92	-	+	0.741	6	4.17	3.69	6	2.92	2.92	-	+	0.741
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	5	6.00	4.37	4	15.63	15.63	-	-	0.759	5	6.00	4.37	4	15.00	15.00	-	-	0.774	5	6.00	4.37	4	15.00	15.00	-	-	0.774
Habitat Means			3.74	2.22		4.70	4.60		+			3.04	2.14		4.50	4.50		-			3.04	2.14		4.50	4.50		+	
Fisher's		Power	0.035		Power-50%		0.107	P-value		0.477 y	Power	0.013		Power-50%		0.090	P-value		0.598 y	Power	0.014		Power-50%		0.083	P-value		0.598 y
Stouffer's		Power	0.048		Power-50%		0.003	P-value		0.398	Power	0.034		Power-50%		0.003	P-value		0.421	Power	0.036		Power-50%		0.001	P-value		0.421
4825C/1424	3	3	55.00	5.00	6	30.42	3.62	-	+	0.007	3	40.83	4.41	6	21.67	4.68	-	+	0.053	3	40.83	4.41	6	21.67	4.68	-	+	0.053
453C/453	3	5	23.00	8.85	4	0.63	0.63	-	-	0.040	5	23.00	8.85	4	0.63	0.63	-	+	0.040	5	23.00	8.85	4	0.63	0.63	-	+	0.040
601C/601	3	4	25.00	11.95	5	38.50	16.33	-	-	0.571	4	5.63	4.83	5	38.00	16.25	-	-	0.089	4	5.63	4.83	5	38.00	16.25	-	-	0.089
598C/598	3	6	19.58	9.21	6	25.00	12.93	-	-	0.758	6	18.33	9.03	6	25.00	12.93	-	-	0.705	6	18.33	9.03	6	25.00	12.93	-	-	0.705
1522C/1522	3	5	18.00	10.88	1	77.50	--	-	-	---	5	18.00	10.88	1	77.50	--	-	-	---	5	18.00	10.88	1	77.50	--	-	-	---
Habitat Means			28.12	9.20		34.40	8.35		+			21.14	7.60		32.56	8.63		+			21.14	7.60		32.56	8.63		+	
Fisher's		Power	---		Power-50%		---	P-value		0.008 y	Power	---		Power-50%		---	P-value		0.042xy	Power	---		Power-50%		---	P-value		0.042xy
Stouffer's		Power	0.386		Power-50%		0.525	P-value		0.131	Power	0.128		Power-50%		0.445	P-value		0.246	Power	0.135		Power-50%		0.450	P-value		0.246

(a) Korrmannia, Monostroma, Ulva and Ulvaria.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Fine Filamentous Greens								Acrosiphonia sp. (A)								Chaetomorpha/Rhizoclonium (A) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	15.00	13.52	-	-	0.221	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		3.00	2.70		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		---	P-value		0.444	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.000		Power-50%		---	P-value		0.432	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	5	2.00	1.46	6	0.42	0.42	-	+	0.329	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	5	0.00	0.00	4	0.63	0.63	-	-	0.391	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.63	0.63	-	-	0.391
Habitat Means			0.40	0.30		0.20	0.20		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.12	0.12		-	
Fisher's		Power	0.003		Power-50%		0.007	P-value		0.609	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.550
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.517	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.429
4825C/1424	3	3	5.00	3.82	6	8.75	3.21	-	-	0.488	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.83	0.83	6	1.25	0.85	-	-	0.878
453C/453	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	19.37	12.97	5	0.50	0.50	-	+	0.151	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	3	6	1.25	0.85	6	0.00	0.00	-	+	0.183	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			5.14	3.54		1.86	0.92		+			0.00	0.00		0.00	0.00		o			0.16	0.16		0.26	0.23		-	
Fisher's		Power	0.202		Power-50%		0.301	P-value		0.156	Power	---		Power-50%		---	P-value		0.698	Power	0.000		Power-50%		---	P-value		0.669
Stouffer's		Power	---		Power-50%		---	P-value		0.097	Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		---	P-value		0.491

(a) Genera not separated.
x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.128. Algal Percent Cover. Chlorophyta. Prince William Sound. Sheltered Rocky. May 1991. Cleared May 1990. (Continued.)

		Cladophora sp. (AE)								Ulothrix sp. (AE)								Urospora sp. (AE)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	13.75	13.75	-	-	0.363	6	0.00	0.00	6	0.83	0.83	-	-	0.363
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.08	0.08		-			0.00	0.00		2.76	2.76		-			0.00	0.00		0.16	0.16		-	
Fisher's		Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.536
Stouffer's		Power	---		Power-50%		---	P-value		0.450	Power	---		Power-50%		---	P-value		0.450	Power	---		Power-50%		---	P-value		0.450
4825C/1424	2	5	2.00	1.46	6	0.42	0.42	-	-	0.329	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.40	0.30		0.08	0.08		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.001		Power-50%		0.000	P-value		0.518	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.446	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	3	4.17	4.17	6	7.50	3.42	-	-	0.500	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	19.37	12.97	5	0.50	0.50	-	+	0.151	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	3	6	1.25	0.85	6	0.00	0.00	-	+	0.183	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			4.98	3.62		1.60	0.97		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.283		Power-50%		0.200	P-value		0.155	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.096	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Tubular and Saccate Greens								Blidingia/Enteromorpha (AE) (a)															
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
4825C/1424	2	5	1.50	1.50	6	0.00	0.00	-	+	0.374	5	1.50	1.50	6	0.00	0.00	-	+	0.374									
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000									
Habitat Means			0.30	0.30		0.00	0.00		+			0.30	0.30		0.00	0.00		+										
Fisher's		Power	---		Power-50%		---	P-value		0.542	Power	---		Power-50%		---	P-value		0.542	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.451	Power	---		Power-50%		---	P-value		0.451	Power	---		Power-50%		---	P-value		
4825C/1424	3	3	9.17	9.17	6	0.00	0.00	-	+	0.423	3	9.17	9.17	6	0.00	0.00	-	+	0.423									
453C/453	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000									
601C/601	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000									
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	3	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---									
Habitat Means			1.84	1.84		0.00	0.00		+			1.84	1.84		0.00	0.00		+										
Fisher's		Power	---		Power-50%		---	P-value		0.508	Power	---		Power-50%		---	P-value		0.508	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.455	Power	---		Power-50%		---	P-value		0.455	Power	---		Power-50%		---	P-value		

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.129. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. May 1991. Cleared May 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta							Morphological Group: Bladed Browns							Total Fucus gardneri (P)						
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	22.92	12.56	6	12.92	12.42	-	+	0.432	6	22.92	12.56	6	10.83	10.34	-	+	0.354	6	22.92	12.56	6	10.83	10.34	-	+	0.354
453C/453	1	6	2.50	2.04	6	19.58	16.19	-	-	0.300	6	2.50	2.04	6	4.58	2.36	-	-	0.392	6	2.50	2.04	6	4.58	2.36	-	-	0.392
601C/601	1	6	5.00	3.71	6	0.00	0.00	-	+	0.195	6	5.00	3.71	6	0.00	0.00	-	+	0.195	6	5.00	3.71	6	0.00	0.00	-	+	0.195
598C/598	1	6	0.83	0.83	6	1.67	1.67	-	-	0.811	6	0.83	0.83	6	1.67	1.67	-	-	0.811	6	0.83	0.83	6	1.67	1.67	-	-	0.811
1522C/1522	1	6	2.92	1.87	6	2.50	0.91	-	+	0.719	6	2.92	1.87	6	2.08	0.77	-	+	0.822	6	2.92	1.87	6	2.08	0.77	-	+	0.822
Habitat Means			6.82	4.20		7.34	6.24		+			6.82	4.20		3.84	3.04		+			6.82	4.20		3.84	3.04		+	
Fisher's		Power	0.043			Power-50%	0.615	P-value		0.347 y	Power	0.077			Power-50%	0.649	P-value		0.329	Power	0.082			Power-50%	0.662	P-value		0.329
Stouffer's		Power	0.014			Power-50%	0.538	P-value		0.599	Power	0.036			Power-50%	0.543	P-value		0.565	Power	0.038			Power-50%	0.562	P-value		0.565
4825C/1424	2	5	30.00	12.47	6	32.92	11.35	-	-	0.997	5	5.50	1.46	6	15.00	7.47	-	-	0.411	5	5.50	1.46	6	15.00	7.47	-	-	0.411
453C/453	2	6	23.33	8.80	6	6.25	2.30	-	+	0.113	6	18.33	7.98	6	5.42	1.98	-	+	0.195	6	18.33	7.98	6	5.42	1.98	-	+	0.195
601C/601	2	6	7.92	3.73	6	3.75	1.07	-	+	0.623	6	4.17	2.47	6	2.92	0.77	-	+	0.844	6	4.17	2.47	6	2.92	0.77	-	+	0.844
598C/598	2	6	0.00	0.00	6	9.58	4.30	-	-	0.041	6	0.00	0.00	6	9.58	4.30	-	-	0.041	6	0.00	0.00	6	9.58	4.30	-	-	0.041
1522C/1522	2	5	26.50	10.71	4	38.75	8.32	-	-	0.343	5	22.00	7.72	4	13.75	5.25	-	+	0.656	5	22.00	7.72	4	13.75	5.25	-	+	0.656
Habitat Means			17.54	7.14		18.28	5.48		-			10.00	3.94		9.34	3.98		+			10.00	3.94		9.34	3.98		-	
Fisher's		Power	0.186			Power-50%	0.549	P-value		0.194	Power	0.046			Power-50%	0.576	P-value		0.522x	Power	0.048			Power-50%	0.549	P-value		0.522x
Stouffer's		Power	0.006			Power-50%	0.188	P-value		0.203	Power	0.061			Power-50%	0.205	P-value		0.810	Power	0.055			Power-50%	0.173	P-value		0.810
4825C/1424	3	3	36.67	4.64	6	42.08	8.12	-	-	0.695	3	3.33	3.33	6	24.58	6.69	-	-	0.070	3	3.33	3.33	6	24.58	6.69	-	-	0.070
453C/453	3	5	38.00	14.48	4	0.00	0.00	-	+	0.019	5	26.00	11.17	4	0.00	0.00	-	+	0.041	5	26.00	11.17	4	0.00	0.00	-	+	0.041
601C/601	3	4	35.00	8.35	5	20.00	8.22	-	+	0.229	4	1.88	1.88	5	12.00	6.19	-	-	0.151	4	1.88	1.88	5	12.00	6.19	-	-	0.151
598C/598	3	6	24.58	5.53	6	31.25	9.93	-	-	0.836	6	7.08	2.18	6	15.42	4.72	-	-	0.304	6	7.08	2.18	6	15.42	4.72	-	-	0.304
1522C/1522	3	5	27.00	8.60	1	17.50	--	-	+	---	5	23.00	7.80	1	0.00	--	-	+	---	5	23.00	7.80	1	0.00	--	-	-	---
Habitat Means			32.26	8.32		22.18	6.55		+			12.26	5.28		10.40	4.40		-			12.26	5.28		10.40	4.40		-	
Fisher's		Power	---			Power-50%	---	P-value		0.049	Power	---			Power-50%	---	P-value		0.047xy	Power	---			Power-50%	---	P-value		0.047xy
Stouffer's		Power	---			Power-50%	---	P-value		0.091	Power	0.000			Power-50%	0.555	P-value		0.380	Power	0.000			Power-50%	0.549	P-value		0.380

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Adult Fucus gardneri (P) (> 2cm)							Juvenile Fucus gardneri (P) (<= 2cm)							Fucus Stipes (P) (a)						
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	21.67	12.44	6	6.67	6.67	-	+	0.280	6	1.25	0.85	6	4.17	3.69	-	-	0.634	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	2.08	2.08	6	1.25	0.85	-	+	0.960	6	0.42	0.42	6	3.33	2.39	-	-	0.211	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	4.17	3.69	6	0.00	0.00	-	+	0.239	6	0.83	0.83	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.83	0.83	6	1.67	1.67	-	-	0.811	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	2.92	1.87	6	1.25	0.56	-	+	0.784	6	0.00	0.00	6	0.83	0.53	-	-	0.175	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			6.34	4.18		2.20	1.98		+			0.50	0.42		1.66	1.32		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.165			Power-50%	0.455	P-value		0.249	Power	0.059			Power-50%	0.031	P-value		0.199	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	0.130			Power-50%	0.367	P-value		0.374	Power	0.184			Power-50%	0.000	P-value		0.211	Power	---			Power-50%	---	P-value		0.500
4825C/1424	2	5	2.50	1.94	6	10.42	4.58	-	-	0.192	5	3.00	1.46	6	4.58	3.12	-	-	0.798	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	17.08	8.20	6	3.33	1.54	-	+	0.174	6	1.25	0.85	6	2.08	2.08	-	-	0.960	6	0.00	0.00	6	0.42	0.42	-	-	0.363
601C/601	2	6	2.50	2.50	6	2.92	0.77	-	-	0.263	6	1.67	1.24	6	0.00	0.00	-	+	0.194	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	8.33	4.36	-	-	0.089	6	0.00	0.00	6	1.25	0.85	-	-	0.183	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	5	17.50	5.97	4	10.63	5.90	-	+	0.596	5	4.50	2.78	4	3.13	3.13	-	+	0.587	5	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			7.92	3.72		7.10	3.44		-			2.10	1.28		2.22	1.84		-			0.00	0.00		0.08	0.08		-	
Fisher's		Power	0.301			Power-50%	0.296	P-value		0.103 y	Power	0.018			Power-50%	0.513	P-value		0.533	Power	---			Power-50%	---	P-value		0.536
Stouffer's		Power	0.011			Power-50%	0.076	P-value		0.176	Power	0.012			Power-50%	0.106	P-value		0.247	Power	---			Power-50%	---	P-value		0.315
4825C/1424	3	3	1.67	1.67	6	22.92	6.56	-	-	0.049	3	1.67	1.67	6	1.67	1.24	-	o	0.978	3	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	5	25.50	11.27	4	0.00	0.00	-	-	0.043	5	0.50	0.50	4	0.00	0.00	-	+	0.374	5	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	1.88	1.88	5	11.00	5.95	-	-	0.161	4	0.00	0.00	5	1.00	1.00	-	-	0.374	4	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	3	6	6.25	2.56	6	14.58	4.54	-	-	0.209	6	0.83	0.53	6	0.83	0.83	-	o	0.767	6	0.42	0.42	6	0.00	0.00	-	+	0.363
1522C/1522	3	5	20.00	7.79	1	0.00	--	-	+	---	5	3.00	0.94	1	0.00	--	-	+	---	5	0.00	0.00	1	2.50	--	-	-	---
Habitat Means			11.08	5.06		9.70	4.28		-			1.20	0.72		0.70	0.75		+			0.08	0.08		0.50	0.00		+	
Fisher's		Power	---			Power-50%	---	P-value		0.030xy	Power	0.026			Power-50%	0.166	P-value		0.639	Power	---			Power-50%	---	P-value		0.477 y
Stouffer's		Power	0.000			Power-50%	0.400	P-value		0.305	Power	0.031			Power-50%	0.396	P-value		0.487	Power	---			Power-50%	---	P-value		0.235

(a) Dead Fucus plants or stipes without blades.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.129. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. May 1991. Cleared May 1990. (Continued.)

Site Pair	Mvd	Petalonia/Punctaria (AE) (b) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Coarse Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Dictyosiphon sp. (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.83	0.83	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.24	0.24		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.359	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.251	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	1.00	1.00	6	0.00	0.00	-	+	0.374	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	3.75	2.80	6	0.42	0.42	-	+	0.213	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.50	0.50	4	11.25	7.40	-	-	0.084	5	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			1.06	0.86		2.34	1.56		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	0.001		Power-50%		0.013	P-value		0.382xy	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.017		Power-50%		0.003	P-value		0.335	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	6.67	4.41	6	0.42	0.42	-	+	0.070	3	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	12.00	3.98	4	0.00	0.00	-	+	0.007	5	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	6.25	3.89	5	2.50	1.58	-	+	0.360	4	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.67	1.24	6	0.83	0.83	-	+	0.580	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	5	0.00	0.00	1	0.00	--	-	o	---	5	2.00	0.94	1	0.00	--	-	+	---	5	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00		o			5.74	2.88		0.74	0.70		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.002	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.009	Power	---		Power-50%		---	P-value		0.500

(b) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between Habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Fine Filamentous Browns (AE) (b) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	2.08	2.08	-	-	0.363	6	0.00	0.00	6	2.08	2.08	-	-	0.363
453C/453	1	6	0.00	0.00	6	0.83	0.83	-	-	0.363	6	0.00	0.00	6	14.17	14.17	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.24	0.24		-			0.00	0.00		3.26	3.26		-			0.00	0.00		0.42	0.42		-	
Fisher's		Power	---		Power-50%		---	P-value		0.359	Power	---		Power-50%		---	P-value		0.359	Power	---		Power-50%		---	P-value		0.536
Stouffer's		Power	---		Power-50%		---	P-value		0.251	Power	---		Power-50%		---	P-value		0.271	Power	---		Power-50%		---	P-value		0.450
4825C/1424	2	5	1.00	1.00	6	0.00	0.00	-	+	0.374	5	23.50	12.98	6	17.92	10.61	-	+	0.664	5	23.50	12.98	6	17.92	10.61	-	+	0.664
453C/453	2	6	3.75	2.80	6	0.42	0.42	-	+	0.213	6	1.25	1.25	6	0.42	0.42	-	+	0.718	6	1.25	1.25	6	0.42	0.42	-	+	0.718
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	3.75	3.75	6	0.83	0.83	-	+	0.632	6	3.75	3.75	6	0.83	0.83	-	+	0.632
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	5	0.50	0.50	4	11.25	7.40	-	-	0.084	5	4.00	4.00	4	13.75	4.62	-	-	0.069	5	4.00	4.00	4	13.75	4.62	-	-	0.069
Habitat Means			1.06	0.86		2.34	1.56		+			6.52	4.42		6.58	3.28		+			6.52	4.42		6.58	3.28		+	
Fisher's		Power	0.001		Power-50%		0.009	P-value		0.382xy	Power	0.007		Power-50%		0.040	P-value		0.627xy	Power	0.007		Power-50%		0.037	P-value		0.627xy
Stouffer's		Power	0.016		Power-50%		0.001	P-value		0.335	Power	0.006		Power-50%		0.001	P-value		0.507	Power	0.008		Power-50%		0.001	P-value		0.507
4825C/1424	3	3	6.67	4.41	6	0.42	0.42	-	+	0.070	3	26.67	12.10	6	17.08	5.30	-	+	0.509	3	26.67	12.10	6	17.08	5.30	-	+	0.509
453C/453	3	5	12.00	3.98	4	0.00	0.00	-	+	0.007	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	6.25	3.89	5	2.50	1.58	-	+	0.360	4	26.88	5.81	5	5.50	3.00	-	+	0.014	4	26.88	5.81	5	5.50	3.00	-	+	0.014
598C/598	3	6	1.67	1.24	6	0.83	0.83	-	+	0.580	6	15.83	5.80	6	15.00	6.86	-	+	0.904	6	15.83	5.80	6	15.00	6.86	-	+	0.904
1522C/1522	3	5	2.00	0.94	1	0.00	--	-	+	---	5	2.00	2.00	1	17.50	--	-	-	---	5	2.00	2.00	1	17.50	--	-	-	---
Habitat Means			5.74	2.88		0.74	0.70		+			14.28	5.14		11.02	3.80		+			14.28	5.14		11.02	3.80		+	
Fisher's		Power	---		Power-50%		---	P-value		0.002	Power	---		Power-50%		---	P-value		0.047	Power	---		Power-50%		---	P-value		0.047
Stouffer's		Power	---		Power-50%		---	P-value		0.009	Power	0.025		Power-50%		0.288	P-value		0.220	Power	0.021		Power-50%		0.310	P-value		0.220

(a) Genera not separated.

(b) Elachista, Ectocarpus and Pilayella.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between Habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.129. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. May 1991. Cleared May 1990. (Continued.)

		Morphological Group: Saccate Browns								Laetheasia/Colpomenia (A) (a)								Soranthera ulvoidea (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Crustose Browns								Ralfsia/Petroderma (P) (a)															
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
4825C/1424	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
4825C/1424	3	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o	1.000									
453C/453	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000									
601C/601	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000									
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	3	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.130. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. May 1991. Cleared May 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group: Bladed Reds								Bangia sp. (AE)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	3.33	2.86	6	0.00	0.00	-	+	0.227	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.83	0.83	6	1.25	0.85	-	-	0.646	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	3.75	3.75	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	5.00	5.00	6	0.00	0.00	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	1.67	1.24	-	-	0.194	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			1.82	1.74		1.36	1.18		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.007		Power-50%		0.007	P-value		0.359 y	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.034		Power-50%		0.067	P-value		0.560	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	5	1.00	1.00	6	5.42	4.00	-	-	0.323	5	1.00	1.00	6	4.58	4.10	-	-	0.524	5	0.00	0.00	6	4.17	4.17	-	-	0.363
453C/453	2	6	10.42	4.85	6	0.83	0.53	-	-	0.078	6	2.50	2.50	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	3.33	1.67	6	0.00	0.00	-	+	0.082	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	5	0.00	0.00	4	0.63	0.63	-	-	0.391	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			2.94	1.52		1.44	1.10		-			0.70	0.70		0.92	0.82		+			0.00	0.00		0.84	0.84		-	
Fisher's		Power	0.006		Power-50%		0.138	P-value		0.399 xy	Power	0.000		Power-50%		---	P-value		0.612 y	Power	---		Power-50%		---	P-value		0.536
Stouffer's		Power	0.000		Power-50%		0.427	P-value		0.961	Power	0.000		Power-50%		---	P-value		0.347	Power	---		Power-50%		---	P-value		0.450
4825C/1424	3	3	3.33	2.20	6	17.08	6.10	-	-	0.159	3	0.00	0.00	6	3.33	0.83	-	-	0.006	3	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	5	13.50	7.14	4	1.25	1.25	-	+	0.110	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	8.13	4.72	5	2.50	1.94	-	-	0.414	4	1.25	1.25	5	0.00	0.00	-	-	0.391	4	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	3	6	0.83	0.83	6	7.50	5.40	-	-	0.300	6	0.00	0.00	6	0.83	0.53	-	-	0.175	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	5	0.50	0.50	1	2.50	--	-	-	---	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			5.24	3.06		6.18	3.67		-			0.26	0.26		0.82	0.33		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.109		Power-50%		0.422	P-value		0.307 y	Power	---		Power-50%		---	P-value		0.018	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.168		Power-50%		0.335	P-value		0.485	Power	0.003		Power-50%		---	P-value		0.102	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Gigartinaceae Group (P) (a)								Palmaria spp. (A)								Phycodrys riggii (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	3	0.00	0.00	6	0.42	0.42	-	-	0.363	3	0.00	0.00	6	2.92	1.00	-	-	0.028	3	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	1.25	1.25	5	0.00	0.00	-	+	0.391	4	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.83	0.53	-	-	0.175	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.08	0.10		-			0.26	0.26		0.74	0.38		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.054	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.449	Power	0.002		Power-50%		---	P-value		0.118	Power	---		Power-50%		---	P-value		0.500

(a) Chondrus, Iridaea, Mastocarpus and Rhodoglossum.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.130. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. May 1991. Cleared May 1990. (Continued.)

		Porphyra sp. (A)								Rhodymenia pertusa (A)								Tokidadendron Kurilensis (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	5	1.00	1.00	6	0.42	0.42	-	+	0.719	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	2.50	2.50	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.70	0.70		0.08	0.08		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.475	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.297	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Coarse Filamentous Reds								Articulate Coralline Algae (A)								Cryptosiphonia woodii (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	3.33	2.86	6	0.00	0.00	-	+	0.227	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.83	0.83	6	1.25	0.85	-	-	0.646	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	3.75	3.75	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	5.00	5.00	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	1.25	1.25	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			1.82	1.74		1.28	1.20		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.002		Power-50%		0.002	P-value		0.465 y	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.022		Power-50%		0.062	P-value		0.591	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	5	0.00	0.00	6	0.42	0.42	-	-	0.363	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	7.50	4.92	6	0.83	0.83	-	+	0.238	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	2.92	1.36	6	0.00	0.00	-	+	0.078	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	5	0.00	0.00	4	0.63	0.63	-	-	0.391	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			2.08	1.26		0.44	0.38		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.002		Power-50%		0.031	P-value		0.404 xy	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.002		Power-50%		0.348	P-value		0.931	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	3	3.33	2.20	6	9.17	6.38	-	-	0.736	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.83	0.83	-	-	0.363
453C/453	3	5	9.00	5.51	4	1.25	1.25	-	+	0.168	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	3.00	2.42	4	0.00	0.00	-	+	0.218
601C/601	3	4	6.88	4.25	5	2.00	2.00	-	+	0.343	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	3	6	0.83	0.83	6	5.00	5.00	-	-	0.582	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.42	0.42	-	-	0.363
1522C/1522	3	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			4.00	2.56		3.50	3.67		+			0.00	0.00		0.00	0.00		o			0.60	0.48		0.24	0.30		-	
Fisher's		Power	0.124		Power-50%		0.372	P-value		0.259	Power	---		Power-50%		---	P-value		0.698	Power	0.000		Power-50%		0.000	P-value		0.392 y
Stouffer's		Power	0.255		Power-50%		0.297	P-value		0.313	Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.000	P-value		0.427

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.130. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. May 1991. Cleared May 1990. (Continued.)

		Endocladia muricata (P)								Gloiopeltis furcata (A)								Neorhodomela/Rhodomela (P) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	3.33	2.86	6	0.00	0.00	-	+	0.227	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.83	0.83	6	1.25	0.85	-	-	0.646	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	3.75	3.75	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	5.00	5.00	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			1.82	1.74		1.02	0.94		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	0.003		Power-50%		0.007	P-value		0.412	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.007		Power-50%		0.063	P-value		0.337	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.42	0.42	-	-	0.363	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.67	0.83	6	0.00	0.00	-	+	0.082	6	0.00	0.00	6	0.83	0.53	-	-	0.175
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.67	1.05	6	0.00	0.00	-	+	0.175	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.68	0.38		0.08	0.08		+			0.00	0.00		0.16	0.10		-	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	0.139		Power-50%		0.144	P-value		0.154	Power	0.000		Power-50%		---	P-value		0.404
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.032	Power	0.005		Power-50%		---	P-value		0.236
4825C/1424	3	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	3.33	3.33	-	-	0.363	3	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.50	0.50	4	0.00	0.00	-	+	0.374	5	0.50	0.50	4	0.00	0.00	-	+	0.374
601C/601	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	2.00	2.00	-	-	0.374
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	4.58	4.58	-	-	0.363
1522C/1522	3	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00		o			0.10	0.10		0.66	0.83		-			0.10	0.10		1.32	1.65		-	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.581	Power	---		Power-50%		---	P-value		0.380
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.638	Power	---		Power-50%		---	P-value		0.326

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Odonthalia floccosa (P)								Ptilota/Neoptilota (P) (b)								Morphological Group: Saccate Reds							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	1.25	1.25	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.26	0.26		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.425	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	5.83	4.50	6	0.00	0.00	-	+	0.203	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.42	0.42	6	0.00	0.00	-	+	0.363
601C/601	2	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	1.25	1.25	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	5	0.00	0.00	4	0.63	0.63	-	-	0.391	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			1.42	1.16		0.20	0.20		+			0.00	0.00		0.00	0.00		o			0.08	0.08		0.00	0.00		+	
Fisher's		Power	0.001		Power-50%		0.000	P-value		0.422	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.536
Stouffer's		Power	0.000		Power-50%		0.117	P-value		0.160	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.315
4825C/1424	3	3	3.33	2.20	6	5.00	3.42	-	-	0.918	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	2.50	1.29	-	-	0.086
453C/453	3	5	5.00	3.16	4	1.25	1.25	-	+	0.461	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	1.00	1.00	4	0.00	0.00	-	+	0.374
601C/601	3	4	6.88	4.25	5	0.00	0.00	-	+	0.188	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.50	0.50	-	-	0.374
598C/598	3	6	0.83	0.83	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---	5	0.50	0.50	1	0.00	--	-	-	---
Habitat Means			3.20	2.10		1.26	1.18		+			0.00	0.00		0.00	0.00		o			0.30	0.30		0.60	0.45		-	
Fisher's		Power	0.214		Power-50%		0.496	P-value		0.138	Power	---		Power-50%		---	P-value		0.698	Power	0.056		Power-50%		---	P-value		0.178
Stouffer's		Power	---		Power-50%		---	P-value		0.078	Power	---		Power-50%		---	P-value		0.500	Power	0.006		Power-50%		---	P-value		0.511

(b) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.130. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. May 1991. Cleared May 1990. (Continued.)

		Halosaccion glandiforme (A)								Halosaccion spp. (A)								Morphological Group: Fine Filamentous Reds							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	0.42	0.42	6	0.00	0.00	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.08	0.08		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.315	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	3	0.00	0.00	6	2.50	1.29	-	-	0.086	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	2.08	1.36	-	-	0.178
453C/453	3	5	1.00	1.00	4	0.00	0.00	-	+	0.374	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	3.50	2.18	4	0.00	0.00	-	+	0.179
601C/601	3	4	0.00	0.00	5	0.50	0.50	-	-	0.374	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	1.67	1.67	-	-	0.363
1522C/1522	3	5	0.50	0.50	1	0.00	--	-	+	---	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	2.50	--	-	-	---
Habitat Means			0.30	0.30		0.60	0.45		-			0.00	0.00		0.00	0.00		o			0.70	0.44		1.26	0.78		-	
Fisher's		Power	0.053		Power-50%		---	P-value		0.178	Power	---		Power-50%		---	P-value		0.698	Power	0.024		Power-50%		0.014	P-value		0.277
Stouffer's		Power	0.004		Power-50%		---	P-value		0.511	Power	---		Power-50%		---	P-value		0.500	Power	0.001		Power-50%		0.012	P-value		0.427

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Polysiphonia/Pterosiphonia (A) (a)								Morphological Group: Crustose Reds								Crustose Coralline Algae (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.08	0.08		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.425	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.42	0.42	-	-	0.363	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.42	0.42	6	0.00	0.00	-	-	0.363	6	0.42	0.42	6	0.00	0.00	-	-	0.363
1522C/1522	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.08	0.08		0.08	0.08		-			0.08	0.08		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.632 y	Power	---		Power-50%		---	P-value		0.536
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.719	Power	---		Power-50%		---	P-value		0.240
4825C/1424	3	3	0.00	0.00	6	2.08	1.36	-	-	0.178	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	5	3.50	2.18	4	0.00	0.00	-	+	0.179	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	3	6	0.00	0.00	6	1.67	1.67	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	5	0.00	0.00	1	2.50	--	-	-	---	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.70	0.44		1.26	0.78		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.021		Power-50%		0.008	P-value		0.277	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.001		Power-50%		0.007	P-value		0.427	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.130. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. May 1991. Cleared May 1990. (Continued.)

			Hildenbrandia sp. (P)								Petrocelis (P)														
it P ir	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	--	-	--	--	-	--	-
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000							
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000							
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000							
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000							
1522C/1522	1	6	*0.00*	*0.00*	6	*0.00*	*0.00*	-	o	*1.000*	6	*0.00*	*0.00*	6	0.42	0.42	-	-	0.363							
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.08	0.08		-							
Fisher's		Power	---		Power-50%	---	P-value			0.732	Power	---		Power-50%	---	P-value			0.536	Power	---	Power-50%	---	P-value		
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.425	Power	---	Power-50%	---	P-value		
4825C/1424	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.42	0.42	-	-	0.363							
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000							
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000							
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000							
1522C/1522	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000							
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.08	0.08		-							
Fisher's		Power	---		Power-50%	---	P-value			0.732	Power	---		Power-50%	---	P-value			0.536	Power	---	Power-50%	---	P-value		
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.450	Power	---	Power-50%	---	P-value		
4825C/1424	3	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o	1.000							
453C/453	3	5	*0.00*	*0.00*	4	*0.00*	*0.00*	-	o	*1.000*	5	0.00	0.00	4	0.00	0.00	-	o	1.000							
601C/601	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000							
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000							
1522C/1522	3	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---							
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o							
Fisher's		Power	---		Power-50%	---	P-value			0.698	Power	---		Power-50%	---	P-value			0.698	Power	---	Power-50%	---	P-value		
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	---	Power-50%	---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.131. Algal Percent Cover. Invertebrates. Prince William Sound. Sheltered Rocky. May 1991. Cleared May 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Balanomorpha								Lottiidae								Mytilus							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	11.67	10.24	-	-	0.243	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	1.25	0.85	-	-	0.183	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	3.33	1.67	6	0.83	0.53	-	+	0.292	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.42	0.42	6	0.83	0.53	-	-	0.549	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	7.50	6.06	6	6.25	2.87	-	+	0.963	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			2.24	1.64		4.18	3.00		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.177		Power-50%		0.077	P-value		0.212	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.158		Power-50%		0.035	P-value		0.140	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	5	1.00	1.00	6	13.33	9.03	-	-	0.307	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	3.33	2.39	6	2.50	2.04	-	+	0.721	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.83	0.83	6	9.17	4.86	-	-	0.037	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.83	0.83	-	-	0.363
598C/598	2	6	7.08	3.25	6	8.75	2.56	-	-	0.439	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	5	3.50	2.32	4	2.50	1.02	-	+	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			3.14	1.96		7.26	3.90		-			0.00	0.00		0.08	0.08		-			0.00	0.00		0.16	0.16		-	
Fisher's		Power	---		Power-50%		---	P-value		0.073	Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.536
Stouffer's		Power	0.316		Power-50%		0.496	P-value		0.150	Power	---		Power-50%		---	P-value		0.240	Power	---		Power-50%		---	P-value		0.417
4825C/1424	3	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	5	0.50	0.50	4	0.00	0.00	-	-	0.374	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.50	0.50	4	0.00	0.00	-	+	0.374
601C/601	3	4	3.75	3.75	5	1.50	1.50	-	+	0.695	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	3	6	4.17	1.90	6	2.08	1.36	-	+	0.359	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	5	1.00	1.00	1	0.00	--	-	+	---	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			1.90	1.44		0.72	0.72		+			0.00	0.00		0.00	0.00		o			0.10	0.10		0.00	0.00		+	
Fisher's		Power	0.085		Power-50%		0.131	P-value		0.245	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.483
Stouffer's		Power	---		Power-50%		---	P-value		0.096	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.315

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Nucella lamellosa								Littorinidae								Mollusca							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.42	0.42	6	0.00	0.00	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.08	0.08		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.315	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.50	0.50	6	0.00	0.00	-	+	0.374	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.63	0.63	-	-	0.391	5	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.10	0.10		0.12	0.12		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.634 y	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.522	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.132. Algal Percent Cover. Substrates. Prince William Sound. Sheltered Rocky. May 1991. Cleared May 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Rock								Oiled Rock								Sand							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	73.75	12.63	6	60.42	16.36	-	+	0.569	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	96.25	2.12	6	70.00	15.29	-	+	0.075	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	90.00	4.23	6	93.33	4.17	-	-	0.539	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	93.75	4.82	6	97.50	1.58	-	-	0.624	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	89.58	5.72	6	86.25	5.69	-	+	0.635	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			88.70	5.88		81.50	8.64		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.331		Power-50%		1.000	P-value		0.238	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.221		Power-50%		1.000	P-value		0.275	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	5	59.00	14.20	6	43.33	11.91	-	+	0.392	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	58.75	14.27	6	87.08	5.45	-	-	0.129	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	91.25	4.12	6	85.83	5.61	-	+	0.438	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	89.58	2.84	6	81.25	3.81	-	+	0.129	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	5	64.00	14.97	4	31.25	13.71	-	+	0.144	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			72.54	10.08		65.76	8.10		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.071	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.152		Power-50%		0.992	P-value		0.165	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	3	5.00	2.89	6	10.42	6.00	-	-	0.796	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	5	24.50	9.79	4	98.12	1.87	-	-	0.001	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	28.13	6.49	5	37.50	16.73	-	-	0.989	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	3	6	45.83	14.21	6	34.17	14.46	-	+	0.521	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	4.58	4.58	6	0.00	0.00	-	+	0.363
1522C/1522	3	5	33.50	14.74	1	0.00	--	-	+	---	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			31.38	9.62		36.04	9.78		-			0.00	0.00		0.00	0.00		o			0.92	0.92		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.011	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.477
Stouffer's		Power	---		Power-50%		---	P-value		0.085	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.235

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Shell Fragments								Water								Zostera/Phyllospadix							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	2.08	2.08	-	-	0.363
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.42	0.42		-	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.536
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.417
4825C/1424	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	10.63	10.63	-	-	0.391	5	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		2.12	2.12		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.550	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.429	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.132. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. May 1991. Cleared May 1990. (Continued.)

		Sand and Mud								Total Substrate																
Site Pair	xyd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
482SC/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	73.75	12.63	6	60.42	16.36	-	-	0.569									
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	96.25	2.12	6	70.00	15.29	-	+	0.075									
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	90.00	4.23	6	93.33	4.17	-	-	0.539									
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	93.75	4.82	6	97.50	1.58	-	-	0.624									
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	89.58	5.72	6	86.25	5.69	-	-	0.635									
Habitat Means			0.00	0.00		0.00	0.00		o			88.70	5.88		81.50	8.64		+										
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	0.331		Power-50%		1.000	P-value		0.238	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.215		Power-50%		1.000	P-value		0.275	Power	---		Power-50%		---	P-value		
482SC/1424	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	59.00	14.20	6	43.33	11.91	-	+	0.392									
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	58.75	14.27	6	87.08	5.45	-	-	0.129									
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	91.25	4.12	6	85.83	5.61	-	+	0.438									
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	89.58	2.84	6	81.25	3.81	-	+	0.129									
1522C/1522	2	5	0.00	0.00	4	10.63	10.63	-	-	0.391	5	64.00	14.97	4	41.88	12.26	-	+	0.267									
Habitat Means			0.00	0.00		2.12	2.12		-			72.54	10.08		67.88	7.82		+										
Fisher's		Power	---		Power-50%		---	P-value		0.550	Power	0.237		Power-50%		0.997	P-value		0.102	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.429	Power	0.092		Power-50%		0.988	P-value		0.184	Power	---		Power-50%		---	P-value		
482SC/1424	3	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	5.00	2.89	6	10.42	6.00	-	-	0.796									
453C/453	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	24.50	9.79	4	98.12	1.87	-	-	0.001									
601C/601	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	28.13	6.49	5	37.50	16.73	-	-	0.989									
598C/598	3	6	4.58	4.58	6	0.00	0.00	-	+	0.363	6	50.42	12.90	6	34.17	14.46	-	+	0.382									
1522C/1522	3	5	0.00	0.00	1	0.00	--	-	o	---	5	53.50	14.74	1	0.00	--	-	+	---									
Habitat Means			0.92	0.92		0.00	0.00		+			32.30	9.36		36.04	9.78		-										
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.012	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.235	Power	0.229		Power-50%		0.752	P-value		0.118	Power	---		Power-50%		---	P-value		

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.133. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. June 1991. Cleared July 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Algal Diversity Index (a)								Algal Taxa Richness (b)								Total Algae							
Site Pair	[illegible]	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.05	0.05	6	0.00	0.00	-	+	0.363	6	0.83	0.31	6	0.00	0.00	-	+	0.042	6	9.58	5.30	6	0.00	0.00	-	+	0.062
453C/453	1	6	0.12	0.06	6	0.00	0.00	-	+	0.083	6	1.33	0.33	6	0.33	0.21	-	+	0.030	6	25.42	10.48	6	3.33	2.86	-	+	0.047
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.17	0.17	-	-	0.363	6	0.00	0.00	6	0.42	0.42	-	-	0.363
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.17	0.17	6	0.17	0.17	-	o	1.000	6	1.25	1.25	6	2.50	2.50	-	-	0.809
1522C/1522	1	6	0.02	0.02	6	0.05	0.05	-	-	0.621	6	0.83	0.31	6	0.50	0.34	-	+	0.485	6	8.33	4.31	6	5.00	4.52	-	-	0.420
Habitat Means			0.04	0.03		0.01	0.01		+			0.63	0.22		0.23	0.18		+			8.92	4.28		2.24	2.06		-	
Fisher's		Power	0.112		Power-50%		0.119	P-value		0.208	Power	---		Power-50%		---	P-value		0.023	Power	---		Power-50%		---	P-value		0.040
Stouffer's		Power	0.120		Power-50%		0.398	P-value		0.173	Power	---		Power-50%		---	P-value		0.085	Power	0.233		Power-50%		0.340	P-value		0.140
4825C/1424	2	6	0.17	0.08	6	0.16	0.09	-	+	0.911	6	1.83	0.79	6	1.83	0.40	-	o	1.000	6	32.92	14.35	6	28.33	15.19	-	-	0.912
453C/453	2	6	0.21	0.10	6	0.14	0.06	-	+	0.576	6	2.00	0.73	6	1.50	0.43	-	+	0.568	6	18.75	11.95	6	10.83	4.59	-	+	0.632
601C/601	2	6	0.00	0.00	6	0.07	0.05	-	-	0.226	6	0.17	0.17	6	1.00	0.37	-	-	0.065	6	0.83	0.83	6	22.50	10.00	-	-	0.072
598C/598	2	6	0.07	0.07	6	0.12	0.08	-	-	0.681	6	0.50	0.50	6	1.17	0.65	-	-	0.437	6	5.83	5.83	6	18.33	11.76	-	-	0.353
1522C/1522	2	6	0.18	0.08	5	0.27	0.11	-	-	0.520	6	1.67	0.61	5	2.60	0.75	-	-	0.356	6	30.00	14.66	5	30.00	11.32	-	o	0.827
Habitat Means			0.13	0.07		0.15	0.08		-			1.23	0.56		1.62	0.52		-			17.66	9.54		21.98	10.58		-	
Fisher's		Power	0.140		Power-50%		0.552	P-value		0.350	Power	0.399		Power-50%		0.599	P-value		0.118	Power	0.135		Power-50%		0.357	P-value		0.215
Stouffer's		Power	0.164		Power-50%		0.620	P-value		0.337	Power	0.385		Power-50%		0.617	P-value		0.179	Power	0.156		Power-50%		0.417	P-value		0.206
4825C/1424	3	4	0.39	0.08	6	0.55	0.03	-	-	0.061	4	3.50	0.65	6	5.00	0.26	-	-	0.038	4	70.00	19.61	6	73.33	11.67	-	-	0.961
453C/453	3	5	0.55	0.03	5	0.18	0.08	-	+	0.003	5	4.40	0.51	5	1.60	0.51	-	+	0.005	5	70.00	16.96	5	11.00	4.65	-	+	0.012
601C/601	3	4	0.19	0.11	5	0.40	0.10	-	-	0.216	4	2.00	0.71	5	3.40	0.68	-	-	0.200	4	28.13	16.02	5	71.00	18.65	-	-	0.136
598C/598	3	5	0.29	0.13	6	0.34	0.08	-	-	0.730	5	2.80	0.92	6	3.00	0.63	-	-	0.858	5	57.00	16.68	6	50.42	16.89	-	+	0.644
1522C/1522	3	6	0.23	0.09	4	0.56	0.16	-	-	0.096	6	2.17	0.60	4	5.25	1.38	-	-	0.048	6	59.58	17.65	4	95.63	4.38	-	-	0.123
Habitat Means			0.33	0.09		0.40	0.09		-			2.97	0.68		3.65	0.69		-			56.94	17.40		60.26	11.28		-	
Fisher's		Power	---		Power-50%		---	P-value		0.034x	Power	---		Power-50%		---	P-value		0.017x	Power	0.126		Power-50%		0.685	P-value		0.212x
Stouffer's		Power	0.174		Power-50%		0.996	P-value		0.655	Power	0.283		Power-50%		0.967	P-value		0.642	Power	0.028		Power-50%		0.648	P-value		0.846

(a) Modified Shanron Index.
(b) Taxa richness calculations are explained in the methods.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Invertebrates								Rock								Perennials (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.42	0.42	6	13.33	8.46	-	-	0.148	6	90.00	5.16	6	86.67	8.46	-	+	0.976	6	9.17	5.39	6	0.00	0.00	-	-	0.073
453C/453	1	6	4.17	4.17	6	0.42	0.42	-	-	0.520	6	70.42	12.47	6	96.25	2.80	-	-	0.059	6	22.50	9.92	6	3.33	2.86	-	+	0.056
601C/601	1	6	5.83	3.52	6	1.25	0.56	-	+	0.252	6	94.17	3.52	6	98.33	0.83	-	-	0.319	6	0.00	0.00	6	0.42	0.42	-	-	0.363
598C/598	1	6	0.00	0.00	6	1.67	0.83	-	-	0.082	6	98.75	1.25	6	95.83	2.79	-	+	0.315	6	0.00	0.00	6	2.50	2.50	-	-	0.363
1522C/1522	1	6	0.00	0.00	6	2.50	1.58	-	-	0.103	6	91.67	4.31	6	92.50	4.28	-	-	0.904	6	7.92	3.95	6	4.58	4.58	-	+	0.330
Habitat Means			2.08	1.62		3.84	2.38		-			89.02	5.36		93.92	3.84		-			7.92	3.86		2.16	2.08		+	
Fisher's		Power	---		Power-50%		---	P-value		0.049	Power	0.538		Power-50%		1.000	P-value		0.173	Power	---		Power-50%		---	P-value		0.052
Stouffer's		Power	---		Power-50%		---	P-value		0.100	Power	0.315		Power-50%		1.000	P-value		0.318	Power	0.134		Power-50%		0.264	P-value		0.292
4825C/1424	2	6	14.58	12.64	6	36.67	17.63	-	-	0.381	6	51.67	15.06	6	35.00	13.56	-	-	0.311	6	9.58	3.79	6	19.17	15.28	-	-	0.685
453C/453	2	6	40.42	15.54	6	2.50	1.58	-	+	0.026	6	40.83	15.67	6	86.67	6.04	-	-	0.021	6	13.33	8.46	6	7.92	3.95	-	+	0.570
601C/601	2	6	7.50	4.38	6	2.92	1.00	-	+	0.700	6	91.67	4.17	6	74.58	10.03	-	+	0.154	6	0.83	0.83	6	0.42	0.42	-	+	0.814
598C/598	2	6	7.08	1.19	6	1.67	0.53	-	+	0.004	6	87.08	6.04	6	80.00	11.55	-	+	0.850	6	2.92	2.92	6	14.17	8.87	-	-	0.270
1522C/1522	2	6	6.67	3.14	5	6.00	4.23	-	+	0.817	6	63.33	13.07	5	64.00	13.82	-	-	0.913	6	7.50	3.35	5	9.50	3.48	-	-	0.406
Habitat Means			15.26	7.36		9.96	4.98		+			66.92	10.82		68.06	11.00		+			6.82	3.88		10.24	6.42		-	
Fisher's		Power	---		Power-50%		---	P-value		0.004	Power	0.113		Power-50%		0.954	P-value		0.299xy	Power	0.062		Power-50%		0.556	P-value		0.353
Stouffer's		Power	---		Power-50%		---	P-value		0.000	Power	0.022		Power-50%		0.836	P-value		0.735	Power	0.069		Power-50%		0.571	P-value		0.233
4825C/1424	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	20.62	12.01	6	26.67	11.67	-	-	0.658	4	19.38	11.29	6	42.92	8.40	-	-	0.081
453C/453	3	5	2.50	2.50	5	2.50	1.58	-	o	0.774	5	27.50	14.79	5	86.00	5.73	-	-	0.008	5	31.00	10.57	5	8.50	4.23	-	+	0.070
601C/601	3	4	1.25	1.25	5	1.00	1.00	-	+	0.879	4	70.63	15.79	5	28.00	18.53	-	+	0.137	4	1.88	1.88	5	22.50	8.66	-	-	0.029
598C/598	3	5	5.00	3.79	6	2.50	2.04	-	+	0.512	5	38.00	15.38	6	47.08	17.50	-	-	0.592	5	14.50	8.00	6	10.00	4.23	-	+	0.892
1522C/1522	3	6	0.83	0.83	4	0.00	0.00	-	+	0.363	6	24.17	12.77	4	4.37	4.37	-	+	0.176	6	10.42	5.22	4	18.75	10.87	-	-	0.706
Habitat Means			1.92	1.68		1.20	0.92		+			36.18	14.16		38.44	11.56		-			15.44	7.40		20.54	7.28		-	
Fisher's		Power	0.028		Power-50%		0.066	P-value		0.428	Power	---		Power-50%		---	P-value		0.098	Power	---		Power-50%		---	P-value		0.051x
Stouffer's		Power	0.082		Power-50%		0.124	P-value		0.280	Power	0.013		Power-50%		0.527	P-value		0.104	Power	0.135		Power-50%		0.693	P-value		0.594

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.133. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. June 1991. Cleared July 1990. (Continued.)

		Annuals (A)									Ephemerals (AE)																
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
453C/453	1	6	2.92	2.92	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
598C/598	1	6	1.25	1.25	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	1	6	0.42	0.42	6	0.42	0.42	-	o	1.000	6	0.00	0.00	6	0.42	0.42	-	-	0.363									
Habitat Means			1.00	1.00		0.08	0.08		+			0.00	0.00		0.08	0.08		-										
Fisher's		Power	---		Power-50%		---	P-value		0.223	Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.094	Power	---		Power-50%		---	P-value		0.425	Power	---		Power-50%		---	P-value		
4825C/1424	2	6	23.33	13.66	6	9.17	3.91	-	+	0.631	6	22.50	13.10	6	9.17	3.91	-	+	0.652									
453C/453	2	6	5.42	3.62	6	2.92	1.50	-	+	0.724	6	0.83	0.53	6	2.50	1.58	-	-	0.570									
601C/601	2	6	0.00	0.00	6	22.08	9.88	-	-	0.053	6	0.00	0.00	6	21.67	10.06	-	-	0.079									
598C/598	2	6	2.92	2.92	6	4.17	2.93	-	-	0.671	6	0.83	0.83	6	4.17	2.93	-	-	0.371									
1522C/1522	2	6	22.50	11.88	5	20.50	10.04	-	+	0.917	6	15.00	12.06	5	10.50	8.75	-	+	0.716									
Habitat Means			10.82	6.42		11.78	5.64		+			7.82	5.30		9.62	5.46		-										
Fisher's		Power	0.015		Power-50%		0.190	P-value		0.747xy	Power	0.179		Power-50%		0.227	P-value		0.172	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.004		Power-50%		0.293	P-value		0.692	Power	0.252		Power-50%		0.345	P-value		0.103	Power	---		Power-50%		---	P-value		
4825C/1424	3	4	50.63	11.15	6	30.42	7.65	-	+	0.169	4	49.38	10.82	6	28.33	7.21	-	+	0.139									
453C/453	3	5	39.00	14.68	5	2.50	1.12	-	+	0.017	5	14.00	9.03	5	2.00	1.22	-	+	0.091									
601C/601	3	4	26.25	16.54	5	48.50	16.86	-	-	0.461	4	25.00	15.31	5	46.00	16.04	-	-	0.465									
598C/598	3	5	42.50	12.82	6	40.42	15.71	-	+	0.792	5	39.00	10.33	6	40.00	15.59	-	-	0.893									
1522C/1522	3	6	49.17	17.29	4	76.88	9.09	-	-	0.231	6	40.42	16.32	4	62.50	16.68	-	-	0.294									
Habitat Means			41.52	14.50		39.74	10.10		+			33.56	12.34		35.76	12.34		-										
Fisher's		Power	---		Power-50%		---	P-value		0.071	Power	0.045		Power-50%		0.856	P-value		0.570x	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.139		Power-50%		0.817	P-value		0.106	Power	0.011		Power-50%		0.869	P-value		0.730	Power	---		Power-50%		---	P-value		

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.134. Algal Percent Cover. Chlorophyta. Prince William Sound. Sheltered Rocky. June 1991. Cleared July 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group: Bladed Greens								Bladed Greens (AE) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.08	0.08		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.536	Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	---			Power-50%	---	P-value		0.425	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500
4825C/1424	2	6	2.92	2.08	6	5.42	2.36	-	-	0.371	6	1.25	1.25	6	0.00	0.00	-	-	0.363	6	1.25	1.25	6	0.00	0.00	-	-	0.363
453C/453	2	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	3.33	3.33	-	-	0.363	6	0.00	0.00	6	3.33	3.33	-	-	0.363	6	0.00	0.00	6	3.33	3.33	-	-	0.363
598C/598	2	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	14.58	12.15	5	1.00	1.00	-	+	0.285	6	0.83	0.83	5	0.00	0.00	-	+	0.363	6	0.83	0.83	5	0.00	0.00	-	+	0.363
Habitat Means			3.50	2.86		2.10	1.50		-			0.42	0.42		0.66	0.66		+			0.42	0.42		0.66	0.66		+	
Fisher's		Power	0.062			Power-50%	0.006	P-value		0.177 y	Power	---			Power-50%	---	P-value		0.441 y	Power	---			Power-50%	---	P-value		0.441 y
Stouffer's		Power	---			Power-50%	---	P-value		0.097	Power	---			Power-50%	---	P-value		0.458	Power	---			Power-50%	---	P-value		0.458
4825C/1424	3	4	35.63	10.33	6	25.42	7.43	-	+	0.412	4	2.50	2.50	6	10.42	4.85	-	-	0.238	4	2.50	2.50	6	10.42	4.85	-	-	0.238
453C/453	3	5	14.00	9.24	5	0.00	0.00	-	+	0.083	5	12.50	9.49	5	0.00	0.00	-	+	0.147	5	12.50	9.49	5	0.00	0.00	-	+	0.147
601C/601	3	4	13.12	13.12	5	43.00	14.86	-	-	0.154	4	1.88	1.88	5	12.00	7.13	-	-	0.256	4	1.88	1.88	5	12.00	7.13	-	-	0.256
598C/598	3	5	20.50	12.05	6	31.67	12.16	-	+	0.475	5	2.50	1.94	6	1.25	0.56	-	+	0.817	5	2.50	1.94	6	1.25	0.56	-	+	0.817
1522C/1522	3	6	28.75	16.02	4	19.38	7.10	-	+	0.994	6	5.83	5.83	4	10.00	5.30	-	-	0.352	6	5.83	5.83	4	10.00	5.30	-	-	0.352
Habitat Means			22.40	12.14		23.90	8.32		+			5.04	4.32		6.74	3.58		-			5.04	4.32		6.74	3.58		-	
Fisher's		Power	0.099			Power-50%	0.352	P-value		0.311 y	Power	0.136			Power-50%	0.197	P-value		0.222	Power	0.136			Power-50%	0.218	P-value		0.222
Stouffer's		Power	0.045			Power-50%	0.350	P-value		0.440	Power	0.052			Power-50%	0.326	P-value		0.629	Power	0.052			Power-50%	0.350	P-value		0.629

(a) Formannia, Monostroma, Ulva and Ulvaria.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Fine Filamentous Greens								Acrosiphonia sp. (A)								Chaetomorpha/Rhizoclonium (A) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.08	0.08		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.536	Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	---			Power-50%	---	P-value		0.425	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500
4825C/1424	2	6	0.83	0.83	6	0.83	0.83	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	13.75	12.31	5	1.00	1.00	-	+	0.388	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			2.92	2.62		0.44	0.44		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000			Power-50%	0.000	P-value		0.629 y	Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	0.000			Power-50%	0.000	P-value		0.299	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500
4825C/1424	3	4	21.25	13.29	6	15.00	4.74	-	+	0.906	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	5	1.50	1.00	5	0.00	0.00	-	+	0.186	5	1.00	1.00	5	0.00	0.00	-	+	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000
601C/601	3	4	11.25	11.25	5	31.00	8.90	-	-	0.167	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	3	5	18.00	11.14	6	30.00	12.50	-	-	0.493	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	22.92	13.52	4	9.38	2.37	-	+	0.782	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			15.00	10.04		17.08	5.70		+			0.20	0.20		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.074			Power-50%	0.613	P-value		0.537 y	Power	---			Power-50%	---	P-value		0.542	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	0.051			Power-50%	0.601	P-value		0.531	Power	---			Power-50%	---	P-value		0.319	Power	---			Power-50%	---	P-value		0.500

(a) Genera not separated.
x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.134. Algal Percent Cover. Chlorophyta. Prince William Sound. Sheltered Rocky. June 1991. Cleared July 1990. (Continued.)

Site Pair	Mvd	Cladophora sp. (AE) N	C	SE	N	O	SE	CV	D	P	Ulothrix sp. (AE) N	C	SE	N	O	SE	CV	D	P	Urospora sp. (AE) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.08	0.08		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.425	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	0.83	0.83	6	0.83	0.83	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	13.75	12.31	5	1.00	1.00	-	+	0.388	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			2.92	2.62		0.44	0.44		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.629 y	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.299	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	4	21.25	13.29	6	15.00	4.74	-	+	0.906	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	5	0.50	0.50	5	0.00	0.00	-	+	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
601C/601	3	4	11.25	11.25	5	31.00	8.90	-	-	0.167	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	3	5	18.00	11.14	6	30.00	12.50	-	-	0.493	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	22.92	13.52	4	9.38	2.37	-	+	0.782	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			14.80	9.94		17.08	5.70		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.037		Power-50%		0.469	P-value		0.672 y	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.025		Power-50%		0.358	P-value		0.621	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z *Only one site pair.*

Site Pair	Mvd	Morphological Group: Tubular and Saccate Greens N	C	SE	N	O	SE	CV	D	P	Blidingia/Enteromorpha (AE) (a) N	C	SE	N	O	SE	CV	D	P
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	*0.00*	*0.00*	6	*0.00*	*0.00*	-	o	*1.000*	6	*0.00*	*0.00*	6	*0.00*	*0.00*	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	0.83	0.83	6	4.58	2.53	-	-	0.209	6	0.83	0.83	6	4.58	2.53	-	-	0.209
453C/453	2	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.42	0.42	-	-	0.363
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	*2*	*6*	*0.00*	*0.00*	*6*	*0.00*	*0.00*	-	*o*	*1.000*	*6*	*0.00*	*0.00*	*6*	*0.00*	*0.00*	-	*o*	1.000
1522C/1522	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.16	0.16		1.00	0.58		-			0.16	0.16		1.00	0.58		-	
Fisher's		Power	0.009		Power-50%		---	P-value		0.280	Power	0.008		Power-50%		---	P-value		0.280
Stouffer's		Power	0.001		Power-50%		---	P-value		0.256	Power	0.000		Power-50%		---	P-value		0.256
4825C/1424	3	4	11.87	8.25	6	0.00	0.00	-	+	0.205	4	11.87	8.25	6	0.00	0.00	-	-	0.205
453C/453	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
601C/601	*3*	*4*	*0.00*	*0.00*	*5*	*0.00*	*0.00*	-	*o*	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	3	5	0.00	0.00	6	0.42	0.42	-	-	0.363	5	0.00	0.00	6	0.42	0.42	-	-	0.363
1522C/1522	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			2.38	1.66		0.08	0.08		+			2.38	1.66		0.08	0.08		.	
Fisher's		Power	0.003		Power-50%		0.007	P-value		0.521	Power	0.003		Power-50%		0.006	P-value		0.521
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.702	Power	0.000		Power-50%		0.000	P-value		0.702

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.135. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. June 1991. Cleared July 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group: Bladed Browns								Total Fucus gardneri (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	9.17	5.39	6	0.00	0.00	-	+	0.073	6	9.17	5.39	6	0.00	0.00	-	+	0.073	6	9.17	5.39	6	0.00	0.00	-	+	0.073
453C/453	1	6	15.42	7.76	6	3.33	2.86	-	+	0.100	6	15.42	7.76	6	3.33	2.86	-	+	0.100	6	15.42	7.76	6	3.33	2.86	-	+	0.100
601C/601	1	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.42	0.42	-	-	0.363
598C/598	1	6	0.00	0.00	6	2.50	2.50	-	-	0.363	6	0.00	0.00	6	2.50	2.50	-	-	0.363	6	0.00	0.00	6	2.50	2.50	-	-	0.363
1522C/1522	1	6	7.92	3.95	6	2.50	2.50	-	+	0.183	6	7.92	3.95	6	2.50	2.50	-	+	0.183	6	7.92	3.95	6	2.50	2.50	-	+	0.183
Habitat Means			6.50	3.44		1.74	1.66		+			6.50	3.44		1.74	1.66		+			6.50	3.44		1.74	1.66		+	
Fisher's		Power	---			Power-50%	---		P-value	0.052	Power	---			Power-50%	---		P-value	0.052	Power	---			Power-50%	---		P-value	0.052
Stouffer's		Power	0.148			Power-50%	0.237		P-value	0.315	Power	0.143			Power-50%	0.264		P-value	0.315	Power	0.132			Power-50%	0.248		P-value	0.315
4825C/1424	2	6	30.00	12.57	6	22.50	15.80	-	+	0.855	6	9.58	3.79	6	18.75	15.38	-	-	0.776	6	9.58	3.79	6	18.75	15.38	-	-	0.776
453C/453	2	6	13.75	7.93	6	8.75	4.17	-	+	0.592	6	8.75	4.95	6	6.67	3.52	-	+	0.702	6	8.75	4.95	6	6.67	3.52	-	+	0.702
601C/601	2	6	0.83	0.83	6	18.75	8.41	-	-	0.107	6	0.83	0.83	6	0.42	0.42	-	+	0.814	6	0.83	0.83	6	0.42	0.42	-	+	0.814
598C/598	2	6	5.83	5.83	6	16.67	11.25	-	-	0.382	6	2.92	2.92	6	12.50	8.54	-	-	0.380	6	2.92	2.92	6	12.50	8.54	-	-	0.380
1522C/1522	2	6	6.67	3.27	5	23.50	9.14	-	-	0.074	6	6.25	3.01	5	6.50	1.27	-	-	0.455	6	6.25	3.01	5	6.50	1.27	-	-	0.455
Habitat Means			11.42	6.08		18.06	9.76		-			5.68	3.10		8.98	5.82		-			5.68	3.10		8.98	5.82		-	
Fisher's		Power	---			Power-50%	---		P-value	0.062	Power	0.069			Power-50%	0.527		P-value	0.433	Power	0.060			Power-50%	0.574		P-value	0.433
Stouffer's		Power	0.288			Power-50%	0.541		P-value	0.133	Power	0.081			Power-50%	0.559		P-value	0.268	Power	0.074			Power-50%	0.577		P-value	0.268
4825C/1424	3	4	34.38	11.20	6	32.08	11.24	-	+	0.927	4	19.38	11.29	6	28.75	9.81	-	-	0.462	4	19.38	11.29	6	28.75	9.81	-	-	0.462
453C/453	3	5	21.50	7.69	5	8.00	4.96	-	+	0.253	5	15.50	5.88	5	5.50	4.29	-	+	0.238	5	15.50	5.88	5	5.50	4.29	-	+	0.238
601C/601	3	4	11.88	3.59	5	21.00	9.47	-	-	0.510	4	0.00	0.00	5	15.50	8.49	-	-	0.059	4	0.00	0.00	5	15.50	8.49	-	-	0.059
598C/598	3	5	34.50	7.68	6	18.75	5.07	-	+	0.125	5	14.50	8.00	6	10.00	4.23	-	+	0.892	5	14.50	8.00	6	10.00	4.23	-	+	0.892
1522C/1522	3	6	22.08	8.67	4	53.13	12.39	-	-	0.068	6	10.42	5.22	4	10.00	5.86	-	+	0.898	6	10.42	5.22	4	10.00	5.86	-	+	0.898
Habitat Means			24.88	7.78		26.60	8.64		+			11.96	6.08		13.96	6.54		+			11.96	6.08		13.96	6.54		+	
Fisher's		Power	0.114			Power-50%	0.608		P-value	0.293xy	Power	0.053			Power-50%	0.337		P-value	0.623xy	Power	0.052			Power-50%	0.345		P-value	0.623xy
Stouffer's		Power	0.045			Power-50%	0.477		P-value	0.101	Power	0.011			Power-50%	0.359		P-value	0.413	Power	0.010			Power-50%	0.375		P-value	0.413

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Adult Fucus gardneri (P) (> 2cm)								Juvenile Fucus gardneri (P) (<= 2cm)								Fucus Stipes (P) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	2.50	2.04	6	0.00	0.00	-	+	0.213	6	6.67	5.23	6	0.00	0.00	-	+	0.148	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	15.00	7.85	6	2.50	2.50	-	+	0.072	6	0.42	0.42	6	0.83	0.53	-	-	0.549	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	2.50	2.50	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	7.50	3.59	6	1.67	1.67	-	+	0.128	6	0.42	0.42	6	0.83	0.83	-	-	0.814	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			5.00	2.70		1.42	1.42		+			1.50	1.20		0.32	0.26		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---		P-value	0.065	Power	0.000			Power-50%	0.014		P-value	0.696 y	Power	---			Power-50%	---		P-value	0.732
Stouffer's		Power	0.117			Power-50%	0.289		P-value	0.299	Power	0.000			Power-50%	0.037		P-value	0.434	Power	---			Power-50%	---		P-value	0.500
4825C/1424	2	6	5.83	2.39	6	18.75	15.38	-	-	0.578	6	3.75	2.12	6	0.00	0.00	-	-	0.096	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	8.75	4.95	6	6.25	3.58	-	-	0.635	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.83	0.83	6	0.42	0.42	-	+	0.814	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	2.08	2.08	6	12.50	8.54	-	-	0.330	6	0.83	0.83	6	0.00	0.00	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	5.00	3.16	5	6.00	1.50	-	-	0.305	6	1.25	1.25	5	0.50	0.50	-	-	0.810	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			4.50	2.70		8.80	5.88		-			1.18	0.84		0.18	0.18		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.106			Power-50%	0.561		P-value	0.309	Power	0.022			Power-50%	0.033		P-value	0.220	Power	---			Power-50%	---		P-value	0.732
Stouffer's		Power	0.110			Power-50%	0.581		P-value	0.230	Power	0.016			Power-50%	0.000		P-value	0.307	Power	---			Power-50%	---		P-value	0.500
4825C/1424	3	4	19.38	11.29	6	28.75	9.81	-	-	0.462	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	5	15.50	5.88	5	5.50	4.29	-	+	0.238	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.50	0.50	-	-	0.374
601C/601	3	4	0.00	0.00	5	15.50	8.49	-	-	0.059	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	3	5	14.50	8.00	6	9.17	3.96	-	+	0.829	5	0.00	0.00	6	0.83	0.53	-	-	0.175	5	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	8.75	5.51	4	10.00	5.86	-	-	0.856	6	1.67	1.67	4	0.00	0.00	-	+	0.363	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			11.64	6.14		13.80	6.50		-			0.34	0.34		0.16	0.10		-			0.00	0.00		0.10	0.10		-	
Fisher's		Power	0.153			Power-50%	0.333		P-value	0.224	Power	0.000			Power-50%	---		P-value	0.491 y	Power	---			Power-50%	---		P-value	0.542
Stouffer's		Power	0.075			Power-50%	0.359		P-value	0.586	Power	0.000			Power-50%	---		P-value	0.194	Power	---			Power-50%	---		P-value	0.319

(a) Dead Fucus plants or stipes without blades.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.135. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. June 1991. Cleared July 1990. (Continued.)

Site Pair	Mvd	Petalonia/Punctaria (AE) (b) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Coarse Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Dictyosiphon sp. (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.83	0.83	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	4.17	2.93	6	0.00	0.00	-	+	0.187	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	2.08	2.08	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	7.50	6.32	-	-	0.233	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			1.42	1.16		1.50	1.26		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	0.004		Power-50%		0.028	P-value		0.213 y	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.100	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	1.25	0.72	6	0.42	0.42	-	+	0.312	4	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	5.00	3.16	5	0.00	0.00	-	-	0.181	5	0.00	0.00	5	0.00	0.00	-	o	1.000
601C/601	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	2.50	2.50	-	-	0.374	4	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	1.50	1.50	6	0.42	0.42	-	-	0.629	5	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			1.56	1.08		0.66	0.66		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	0.119		Power-50%		0.229	P-value		0.245	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.077		Power-50%		0.346	P-value		0.154	Power	---		Power-50%		---	P-value		0.500

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Fine Filamentous Browns (AE) (b) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	0.83	0.83	6	0.00	0.00	-	-	0.363	6	19.58	11.28	6	3.75	1.80	-	+	0.320	6	19.58	11.28	6	3.75	1.80	-	+	0.320
453C/453	2	6	4.17	2.93	6	0.00	0.00	-	-	0.187	6	0.83	0.53	6	2.08	1.36	-	-	0.635	6	0.83	0.53	6	2.08	1.36	-	-	0.635
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	18.33	8.23	-	-	0.076	6	0.00	0.00	6	18.33	8.23	-	-	0.076
598C/598	2	6	2.08	2.08	6	0.00	0.00	-	-	0.363	6	0.83	0.83	6	3.75	2.87	-	-	0.407	6	0.83	0.83	6	3.75	2.87	-	-	0.407
1522C/1522	2	6	0.00	0.00	5	7.50	6.32	-	-	0.233	6	0.42	0.42	5	9.50	7.76	-	-	0.288	6	0.42	0.42	5	9.50	7.76	-	-	0.288
Habitat Means			1.42	1.16		1.50	1.26		-			4.32	2.60		7.50	4.42		-			4.32	2.60		7.50	4.42		-	
Fisher's		Power	0.005		Power-50%		0.036	P-value		0.213 y	Power	---		Power-50%		---	P-value		0.093	Power	---		Power-50%		---	P-value		0.093
Stouffer's		Power	---		Power-50%		---	P-value		0.100	Power	---		Power-50%		---	P-value		0.083	Power	---		Power-50%		---	P-value		0.083
4825C/1424	3	4	1.25	0.72	6	0.42	0.42	-	+	0.312	4	13.75	8.07	6	2.92	1.98	-	+	0.082	4	13.75	8.07	6	2.92	1.98	-	+	0.082
453C/453	3	5	5.00	3.16	5	0.00	0.00	-	+	0.181	5	1.00	1.00	5	2.00	1.22	-	-	0.545	5	1.00	1.00	5	2.00	1.22	-	-	0.545
601C/601	3	4	0.00	0.00	5	2.50	2.50	-	-	0.374	4	11.88	3.59	5	3.00	1.84	-	+	0.051	4	11.88	3.59	5	3.00	1.84	-	+	0.051
598C/598	3	5	1.50	1.50	6	0.42	0.42	-	+	0.629	5	18.50	2.69	6	8.33	4.27	-	+	0.064	5	18.50	2.69	6	8.33	4.27	-	+	0.064
1522C/1522	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	11.67	6.82	4	43.13	16.87	-	-	0.056	6	11.67	6.82	4	43.13	16.87	-	-	0.056
Habitat Means			1.56	1.08		0.66	0.66		+			11.38	4.44		11.86	5.24		+			11.38	4.44		11.86	5.24		+	
Fisher's		Power	0.133		Power-50%		0.230	P-value		0.245	Power	---		Power-50%		---	P-value		0.019xy	Power	---		Power-50%		---	P-value		0.019xy
Stouffer's		Power	0.090		Power-50%		0.338	P-value		0.154	Power	---		Power-50%		---	P-value		0.079	Power	---		Power-50%		---	P-value		0.079

(a) Genera not separated.

(b) Elachista, Ectocarpus and Pilayella.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.135. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. June 1991. Cleared July 1990. (Continued.)

		Morphological Group: Saccate Browns								Leathesia/Colpomenia (A) (a)								Soranthera ulvoidea (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	5	0.00	0.00	5	0.50	0.50	-	-	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.50	0.50	-	-	0.374
601C/601	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.10	0.10		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.10	0.10		-	
Fisher's		Power	---		Power-50%		---	P-value		0.542	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.542
Stouffer's		Power	---		Power-50%		---	P-value		0.319	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.319

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Crustose Browns								Ralfsia/Petroderma (P) (a)															
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
4825C/1424	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
598C/598	2	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.42	0.42	-	-	0.363									
1522C/1522	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.08	0.08		-			0.00	0.00		0.08	0.08		-										
Fisher's		Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.240	Power	---		Power-50%		---	P-value		0.240	Power	---		Power-50%		---	P-value		
4825C/1424	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000									
453C/453	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000									
601C/601	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000									
598C/598	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.136. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. June 1991. Cleared July 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group: Bladed Reds								Bangia sp. (AE)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	10.00	4.79	6	0.00	0.00	-	+	0.080	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	1.25	1.25	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.42	0.42	6	2.08	2.08	-	-	0.619	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			2.42	1.38		0.42	0.42		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.212		Power-50%		0.212	P-value		0.119	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.049	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	5.00	4.08	6	1.67	1.24	-	+	0.614	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	1.25	1.25	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	8.75	5.19	5	5.50	3.00	-	+	0.819	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			2.76	1.86		1.86	1.26		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.032		Power-50%		0.009	P-value		0.284 y	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.063		Power-50%		0.136	P-value		0.233	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	4	0.00	0.00	6	15.83	5.07	-	-	0.003	4	0.00	0.00	6	2.50	1.71	-	-	0.183	4	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	5	34.50	15.56	5	3.00	2.00	-	+	0.039	5	8.50	7.31	5	0.00	0.00	-	-	0.240	5	0.00	0.00	5	0.00	0.00	-	o	1.000
601C/601	3	4	3.13	1.88	5	7.00	4.70	-	-	0.622	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	3	5	2.00	2.00	6	0.00	0.00	-	+	0.374	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	8.75	6.94	4	23.13	13.28	-	-	0.308	6	0.00	0.00	4	5.00	3.06	-	-	0.187	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			9.68	5.28		9.78	5.02		-			1.70	1.46		1.50	0.96		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.033 x	Power	0.007		Power-50%		0.000	P-value		0.250 y	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.015		Power-50%		0.713	P-value		0.851	Power	0.001		Power-50%		0.021	P-value		0.565	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Gigartinacea Group (P) (a)								Palmaria spp. (A)								Phycodrys riggii (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	4	0.00	0.00	6	2.50	1.71	-	-	0.183	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	7.50	7.50	5	0.00	0.00	-	-	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000
601C/601	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.00	0.00	4	3.13	3.13	-	-	0.391	6	0.00	0.00	4	1.88	1.88	-	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		1.12	0.96		-			1.50	1.50		0.38	0.38		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.008		Power-50%		---	P-value		0.271	Power	---		Power-50%		---	P-value		0.634	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.002		Power-50%		---	P-value		0.358	Power	---		Power-50%		---	P-value		0.385	Power	---		Power-50%		---	P-value		0.500

(a) Chondrus, Iridaea, Mastocarpus and Rhodoglossum.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.136. Algal Percent Cover, Rhodophyta. Prince William Sound. Sheltered Rocky. June 1991. Cleared July 1990. (Continued.)

Site Pair	Mvd	Porphyra sp. (A) N	C	SE	N	O	SE	CV	D	P	Rhodymenia pertusa (A) N	C	SE	N	O	SE	CV	D	P	Tokidadendron kurilensis (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	1.00	1.00	5	0.00	0.00	-	+	0.374
601C/601	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.20	0.20		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.542
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.319

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Morphological Group: Coarse Filamentous Reds N	C	SE	N	O	SE	CV	D	P	Articulate Coralline Algae (A) N	C	SE	N	O	SE	CV	D	P	Cryptosiphonia woodii (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	5.42	3.44	6	0.00	0.00	-	-	0.175	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	1.25	1.25	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.42	0.42	6	2.08	2.08	-	-	0.619	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			1.50	1.10		0.42	0.42		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.111		Power-50%		0.161	P-value		0.181	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.074	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	4.58	3.68	6	1.67	1.24	-	+	0.635	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	1.25	1.25	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	8.75	5.19	5	5.50	3.00	-	+	0.819	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	7.50	5.40	5	2.50	1.94	-	+	0.632
Habitat Means			2.68	1.78		1.78	1.18		-			0.00	0.00		0.00	0.00		o			1.50	1.08		0.50	0.38		+	
Fisher's		Power	0.008		Power-50%		0.018	P-value		0.438 y	Power	---		Power-50%		---	P-value		0.732	Power	0.000		Power-50%		0.000	P-value		0.644
Stouffer's		Power	0.031		Power-50%		0.164	P-value		0.269	Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.000	P-value		0.460
4825C/1424	3	4	0.00	0.00	6	10.83	6.11	-	-	0.044	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.42	0.42	-	-	0.363
453C/453	3	5	15.00	6.17	5	3.00	2.00	-	+	0.094	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
601C/601	3	4	3.13	1.88	5	7.00	4.70	-	-	0.622	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	1.25	1.25	5	0.00	0.00	-	+	0.391
598C/598	3	5	2.00	2.00	6	0.00	0.00	-	+	0.374	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	2.00	2.00	6	0.00	0.00	-	+	0.374
1522C/1522	3	6	8.75	6.94	4	8.12	5.04	-	+	0.732	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	8.75	6.94	4	2.50	1.77	-	+	0.702
Habitat Means			5.78	3.40		5.78	3.56		+			0.00	0.00		0.00	0.00		o			2.42	2.04		0.58	0.44		+	
Fisher's		Power	0.045		Power-50%		0.349	P-value		0.268 xy	Power	---		Power-50%		---	P-value		0.732	Power	0.002		Power-50%		0.008	P-value		0.398
Stouffer's		Power	0.023		Power-50%		0.510	P-value		0.105	Power	---		Power-50%		---	P-value		0.500	Power	0.018		Power-50%		0.000	P-value		0.200

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.136. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. June 1991. Cleared July 1990. (Continued.)

		Endocladia muricata (P)								Gloiopeltis furcata (A)								Neorhodomela/Rhodomela (P) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.42	0.42	6	0.00	0.00	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	2.50	2.50	6	0.00	0.00	-	+	0.363	6	2.92	2.92	6	0.00	0.00	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.25	1.25	6	0.00	0.00	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.42	0.42	6	0.00	0.00	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.50	0.50		0.00	0.00		+			1.00	1.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.131	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.315	Power	---		Power-50%		---	P-value		0.066	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.16	0.16		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.359	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.244	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	1.25	1.25	-	-	0.363
453C/453	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
601C/601	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	1.25	1.25	-	-	0.391
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.52	0.52		-	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.371
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.380

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Odonthalia floccosa (P)								Ptilota/Neoptilota (P) (b)								Morphological Group: Saccate Reds							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	2.08	2.08	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.42	0.42		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.425	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	4.58	3.68	6	1.25	1.25	-	+	0.457	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.42	0.42	6	0.00	0.00	-	+	0.363
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	1.25	1.25	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	1.25	1.25	5	3.00	3.00	-	-	0.714	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			1.18	1.00		1.12	1.12		-			0.00	0.00		0.00	0.00		o			0.08	0.08		0.00	0.00		+	
Fisher's		Power	0.000		Power-50%		0.001	P-value		0.555 y	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.536
Stouffer's		Power	0.007		Power-50%		0.075	P-value		0.349	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.315
4825C/1424	3	4	0.00	0.00	6	9.17	5.46	-	-	0.043	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	5	15.00	6.17	5	3.00	2.00	-	+	0.094	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	1.00	1.00	5	0.00	0.00	-	+	0.374
601C/601	3	4	1.88	1.88	5	7.00	4.70	-	-	0.366	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.00	0.00	4	4.37	4.37	-	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	3.75	3.75	-	-	0.391
Habitat Means			3.38	1.62		4.72	3.32		-			0.00	0.00		0.00	0.00		o			0.20	0.20		0.76	0.76		+	
Fisher's		Power	0.234		Power-50%		0.063	P-value		0.104x	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.634 y
Stouffer's		Power	0.046		Power-50%		0.328	P-value		0.587	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.385

(b) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.136. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. June 1991. Cleared July 1990. (Continued.)

Site Pair	Mvd	Halosaccion glandiforme (A) N	C	SE	N	O	SE	CV	D	P	Halosaccion spp. (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.08	0.08		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.315	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	1.25	1.25	-	-	0.363
453C/453	3	5	1.00	1.00	5	0.00	0.00	-	+	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	9.50	6.14	5	0.00	0.00	-	+	0.184
601C/601	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.00	0.00	4	3.75	3.75	-	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	6.25	6.25	-	-	0.391
Habitat Means			0.20	0.20		0.76	0.76		+			0.00	0.00		0.00	0.00		o			1.90	1.22		1.52	1.52		-	
Fisher's		Power	---		Power-50%		---	P-value		0.634 y	Power	---		Power-50%		---	P-value		0.732	Power	0.002		Power-50%		0.008	P-value		0.473 y
Stouffer's		Power	---		Power-50%		---	P-value		0.385	Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.080	P-value		0.656

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Crustose Reds N	C	SE	N	O	SE	CV	D	P	Crustose Coralline Algae (P) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	4.58	4.58	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.92	0.92		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.315	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.08	0.08		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.450	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	4	0.00	0.00	6	1.25	1.25	-	-	0.363	4	0.00	0.00	6	1.25	1.25	-	-	0.363	4	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	5	9.50	6.14	5	0.00	0.00	-	+	0.184	5	0.50	0.50	5	0.00	0.00	-	+	0.374	5	0.50	0.50	5	0.00	0.00	-	-	0.374
601C/601	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.00	0.00	4	6.25	6.25	-	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			1.90	1.22		1.52	1.52		-			0.10	0.10		0.26	0.26		-			0.10	0.10		0.00	0.00		+	
Fisher's		Power	0.001		Power-50%		0.007	P-value		0.473 y	Power	---		Power-50%		---	P-value		0.630	Power	---		Power-50%		---	P-value		0.542
Stouffer's		Power	0.000		Power-50%		0.092	P-value		0.656	Power	---		Power-50%		---	P-value		0.635	Power	---		Power-50%		---	P-value		0.319

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.136. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. June 1991. Cleared July 1990. (Continued.)

		Hildenbrandia sp. (P)								Petrocelis (P)																			
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
453C/453	1	6	4.58	4.58	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.92	0.92		0.00	0.00		+			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.315	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
4825C/1424	2	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.08	0.08		-			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.450	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
4825C/1424	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	1.25	1.25	-	-	0.363									
453C/453	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000									
601C/601	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000									
598C/598	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.26	0.26		-										
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.450	Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.137. Algal Percent Cover. Invertebrates. Prince William Sound. Sheltered Rocky. June 1991. Cleared July 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Balanomorpha							Lottiidae							Mytilus						
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	13.33	8.46	-	-	0.114	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	4.17	4.17	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	5.83	3.52	6	0.42	0.42	-	+	0.083	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.42	0.42	-	-	0.363
598C/598	1	6	0.00	0.00	6	1.67	0.83	-	-	0.082	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	2.50	1.58	-	-	0.103	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			2.00	1.54		3.58	2.26		-			0.08	0.08		0.08	0.08		+			0.00	0.00		0.08	0.08		-	
Fisher's		Power	---			Power-50%	---	P-value		0.047x	Power	---			Power-50%	---	P-value		0.632 y	Power	---			Power-50%	---	P-value		0.536
Stouffer's		Power	0.044			Power-50%	0.029	P-value		0.153	Power	---			Power-50%	---	P-value		0.534	Power	---			Power-50%	---	P-value		0.417
4825C/1424	2	6	12.92	11.94	6	34.58	17.55	-	-	0.336	6	0.00	0.00	6	1.25	1.25	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	40.00	15.72	6	2.08	1.36	-	+	0.027	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.42	0.42	6	0.00	0.00	-	+	0.363
601C/601	2	6	7.08	4.00	6	1.67	1.24	-	+	0.290	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.83	0.53	-	-	0.175
598C/598	2	6	6.25	1.07	6	1.67	0.53	-	+	0.006	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.83	0.83	6	0.00	0.00	-	+	0.363
1522C/1522	2	6	3.33	1.54	5	0.50	0.50	-	+	0.113	6	0.83	0.83	5	0.00	0.00	-	+	0.363	6	2.50	1.12	5	5.50	4.36	-	-	0.772
Habitat Means			13.92	6.84		8.12	4.24		+			0.24	0.24		0.26	0.26		+			0.74	0.46		1.26	0.98		-	
Fisher's		Power	---			Power-50%	---	P-value		0.001	Power	---			Power-50%	---	P-value		0.441 y	Power	0.008			Power-50%	0.112	P-value		0.535
Stouffer's		Power	---			Power-50%	---	P-value		0.000	Power	---			Power-50%	---	P-value		0.392	Power	0.004			Power-50%	0.148	P-value		0.792
4825C/1424	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	5	2.00	2.00	5	2.00	1.46	-	o	0.796	5	0.00	0.00	5	0.50	0.50	-	-	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000
601C/601	3	4	1.25	1.25	5	1.00	1.00	-	+	0.879	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	3	5	5.00	3.79	6	2.50	2.04	-	+	0.512	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.83	0.83	4	0.00	0.00	-	+	0.363
Habitat Means			1.66	1.42		1.10	0.90		+			0.00	0.00		0.10	0.10		-			0.16	0.16		0.00	0.00		+	
Fisher's		Power	0.009			Power-50%	0.031	P-value		0.613	Power	---			Power-50%	---	P-value		0.542	Power	---			Power-50%	---	P-value		0.536
Stouffer's		Power	0.022			Power-50%	0.060	P-value		0.342	Power	---			Power-50%	---	P-value		0.319	Power	---			Power-50%	---	P-value		0.425

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Nucella lamellosa							Littorinidae							Mollusca						
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.08	0.08		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.536	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.315	Power	---			Power-50%	---	P-value		0.500
4825C/1424	2	6	1.25	0.85	6	0.83	0.83	-	+	0.646	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.26	0.18		0.16	0.16		+			0.08	0.08		0.16	0.16		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000			Power-50%	0.001	P-value		0.648	Power	---			Power-50%	---	P-value		0.441	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	0.000			Power-50%	0.000	P-value		0.475	Power	---			Power-50%	---	P-value		0.286	Power	---			Power-50%	---	P-value		0.500
4825C/1424	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	5	0.50	0.50	5	0.00	0.00	-	+	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
601C/601	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.10	0.10		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.542	Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	---			Power-50%	---	P-value		0.319	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.138. Algal Percent Cover. Substrates. Prince William Sound. Sheltered Rocky. June 1991. Cleared July 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Rock								Oiled Rock								Sand							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	90.00	5.16	6	86.67	8.46	-	+	0.976	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	70.42	12.47	6	96.25	2.80	-	-	0.059	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	94.17	3.52	6	98.33	0.83	-	-	0.319	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	98.75	1.25	6	95.83	2.79	-	+	0.315	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	91.67	4.31	6	92.50	4.28	-	-	0.904	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			89.02	5.36		93.92	3.84		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.560			Power-50%	1.000	P-value		0.173	Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	0.328			Power-50%	1.000	P-value		0.318	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500
4825C/1424	2	6	51.67	15.06	6	35.00	13.56	-	+	0.321	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	40.83	15.67	6	86.67	6.04	-	-	0.021	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	91.67	4.17	6	74.58	10.03	-	+	0.154	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	87.08	6.04	6	80.00	11.55	-	+	0.850	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	63.33	13.07	5	64.00	13.82	-	-	0.923	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			66.92	10.82		68.06	11.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.117			Power-50%	0.954	P-value		0.299xy	Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	0.018			Power-50%	0.830	P-value		0.735	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500
4825C/1424	3	4	20.62	12.01	6	26.67	11.67	-	-	0.658	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	5	27.50	14.79	5	86.00	5.73	-	-	0.008	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
601C/601	3	4	70.63	15.79	5	28.00	18.53	-	+	0.137	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	3	5	38.00	15.38	6	47.08	17.50	-	-	0.592	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	24.17	12.77	4	4.37	4.37	-	+	0.176	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			36.18	14.16		38.44	11.56		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.098	Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	0.012			Power-50%	0.568	P-value		0.104	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Shell Fragments								Water								Zostera/Phyllospadix							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500
4825C/1424	2	6	0.83	0.83	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.16	0.16		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.536	Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	---			Power-50%	---	P-value		0.450	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500
4825C/1424	3	4	9.38	9.38	6	0.00	0.00	-	+	0.391	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
601C/601	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	15.42	15.42	4	0.00	0.00	-	+	0.363	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			4.96	4.96		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.371	Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	---			Power-50%	---	P-value		0.379	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.138. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. June 1991. Cleared July 1990. (Continued.)

		Sand and Mud								Total Substrate																	
it_ Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	90.00	5.16	6	86.67	8.46	-		0.976									
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	70.42	12.47	6	96.25	2.80	-	-	0.059									
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	94.17	3.52	6	98.33	0.83	-	-	0.319									
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	98.75	1.25	6	95.83	2.79	-	+	0.315									
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	91.67	4.31	6	92.50	4.28	-	-	0.904									
Habitat Means			0.00	0.00		0.00	0.00		o			89.02	5.36		93.92	3.84		-									
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	0.554		Power-50%		1.000	P-value		0.173	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.323		Power-50%		1.000	P-value		0.318	Power	---		Power-50%		---	P-value		
4825C/1424	2	6	0.83	0.83	6	0.00	0.00	-	+	0.363	6	52.50	14.76	6	35.00	13.56	-	-	0.291									
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	40.83	15.67	6	86.67	6.04	-	-	0.021									
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	91.67	4.17	6	74.58	10.03	-	+	0.154									
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	87.08	6.04	6	80.00	11.55	-	+	0.850									
1522C/1522	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	63.33	13.07	5	64.00	13.82	-	-	0.913									
Habitat Means			0.16	0.16		0.00	0.00		+			67.08	10.76		68.06	11.00		+									
Fisher's		Power	---		Power-50%		---	P-value		0.536	Power	0.132		Power-50%		0.961	P-value		0.290xy	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.450	Power	0.020		Power-50%		0.845	P-value		0.733	Power	---		Power-50%		---	P-value		
4825C/1424	3	4	9.38	9.38	6	0.00	0.00	-	+	0.391	4	30.00	19.61	6	26.67	11.67	-	+	0.961									
453C/453	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	27.50	14.79	5	86.00	5.73	-	-	0.008									
601C/601	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	70.63	15.79	5	28.00	18.53	-	-	0.137									
598C/598	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	38.00	15.38	6	47.08	17.50	-	-	0.592									
1522C/1522	3	6	15.42	15.42	4	0.00	0.00	-	+	0.363	6	39.58	17.27	4	4.37	4.37	-	-	0.124									
Habitat Means			4.96	4.96		0.00	0.00		+			41.14	16.58		38.44	11.56		.									
Fisher's		Power	---		Power-50%		---	P-value		0.371	Power	0.268		Power-50%		0.642	P-value		0.218x	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.379	Power	0.107		Power-50%		0.508	P-value		0.876	Power	---		Power-50%		---	P-value		

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.139. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Coarse Textured. May 1991. Cleared June 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Algal Diversity Index (a)								Algal Taxa Richness (b)								Total Algae							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	5	0.09	0.09	4	0.00	0.00	-	+	0.374	5	0.80	0.58	4	0.25	0.25	-	+	0.456	5	2.50	1.94	4	1.25	1.25	-	+	0.666
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.20	0.20	5	0.00	0.00	-	+	0.374	5	5.50	5.50	5	0.00	0.00	-	+	0.374
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.33	0.21	6	0.00	0.00	-	+	0.175	6	5.42	4.49	6	0.00	0.00	-	+	0.219
1650C/1650	1	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.02	0.02		0.00	0.00		+			0.33	0.25		0.06	0.06		+			3.35	2.98		0.33	0.33		+	
Fisher's		Power	---		Power-50%		---	P-value		0.483	Power	0.147		Power-50%		0.181	P-value		0.127	Power	0.048		Power-50%		0.058	P-value		0.182
Stouffer's		Power	---		Power-50%		---	P-value		0.498	Power	0.096		Power-50%		0.088	P-value		0.114	Power	0.038		Power-50%		0.021	P-value		0.121
506C/506	2	4	0.06	0.06	4	0.07	0.07	-	-	0.889	4	1.00	0.41	4	0.75	0.48	-	+	0.705	4	21.25	8.81	4	3.75	2.98	-	-	0.149
1598C/1598	2	5	0.03	0.03	5	0.00	0.00	-	+	0.374	5	0.40	0.40	5	0.00	0.00	-	+	0.374	5	4.50	4.50	5	0.00	0.00	-	-	0.374
846C/846	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.75	0.25	5	0.20	0.20	-	-	0.125	4	10.63	5.90	5	0.50	0.50	-	-	0.053
1650C/1650	2	5	0.00	0.00	0	--	--	-		---	5	0.40	0.24	0	--	--	-		---	5	2.50	1.58	0	--	--	-		---
Habitat Means			0.02	0.02		0.02	0.02		+			0.64	0.33		0.32	0.23		-			9.73	5.20		1.43	1.17		+	
Fisher's		Power	---		Power-50%		---	P-value		0.433 y	Power	---		Power-50%		---	P-value		0.089	Power	---		Power-50%		---	P-value		0.015
Stouffer's		Power	---		Power-50%		---	P-value		0.197	Power	---		Power-50%		---	P-value		0.098	Power	---		Power-50%		---	P-value		0.079
506C/506	3	4	0.31	0.07	4	0.15	0.09	-	+	0.209	4	2.75	0.48	4	1.50	0.65	-	+	0.171	4	83.75	6.88	4	26.87	24.40	-	+	0.110
1598C/1598	3	3	0.25	0.13	4	0.00	0.00	-	+	0.200	3	1.67	0.88	4	0.50	0.29	-	+	0.211	3	34.17	25.91	4	24.37	21.95	-	+	0.749
846C/846	3	2	0.00	0.00	2	0.00	0.00	-	o	1.000	2	1.00	0.00	2	0.00	0.00	-	+	---	2	40.00	37.50	2	0.00	0.00	-	+	0.407
1650C/1650	3	6	0.09	0.06	0	--	--	-		---	6	0.83	0.54	0	--	--	-		---	6	24.17	16.85	0	--	--	-		---
Habitat Means			0.16	0.07		0.05	0.03		+			1.56	0.48		0.67	0.31		+			45.55	21.80		17.10	15.47		+	
Fisher's		Power	0.407		Power-50%		0.763	P-value		0.105	Power	---		Power-50%		---	P-value		0.051	Power	---		Power-50%		---	P-value		0.090
Stouffer's		Power	0.284		Power-50%		0.290	P-value		0.109	Power	0.529		Power-50%		0.513	P-value		0.104	Power	0.136		Power-50%		0.137	P-value		0.291

(a) Modified Shannon Index.
(b) Taxa richness calculations are explained in the methods.

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Invertebrates								Rock								Perennials (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	5	0.00	0.00	4	1.25	1.25	-	-	0.391	5	97.50	1.94	4	97.50	1.44	-	o	0.862	5	1.50	1.00	4	0.00	0.00	-	+	0.186
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	94.50	5.50	5	100.00	0.00	-	-	0.374	5	5.50	5.50	5	0.00	0.00	-	+	0.374
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	93.75	4.41	6	100.00	0.00	-	-	0.128	6	5.42	4.49	6	0.00	0.00	-	+	0.219
1650C/1650	1	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	100.00	0.00	2	100.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.33	0.33		-			96.45	2.95		99.38	0.35		-			3.10	2.75		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.492	Power	0.485		Power-50%		1.000	P-value		0.181	Power	---		Power-50%		---	P-value		0.084
Stouffer's		Power	---		Power-50%		---	P-value		0.498	Power	0.521		Power-50%		1.000	P-value		0.106	Power	0.053		Power-50%		0.047	P-value		0.120
506C/506	2	4	5.00	2.70	4	0.63	0.63	-	+	0.135	4	73.75	7.81	4	95.63	2.77	-	-	0.034	4	13.13	5.34	4	3.13	3.13	-	-	0.167
1598C/1598	2	5	8.00	2.15	5	1.50	1.00	-	+	0.013	5	87.50	4.26	5	98.50	1.00	-	-	0.012	5	0.50	0.50	5	0.00	0.00	-	+	0.374
846C/846	2	4	8.13	0.62	5	2.50	1.94	-	+	0.035	4	67.50	11.86	5	97.00	1.84	-	-	0.010	4	10.63	5.90	5	0.50	0.50	-	-	0.053
1650C/1650	2	5	4.00	2.92	0	--	--	-		---	5	93.50	4.15	0	--	--	-		---	5	1.50	1.50	0	--	--	-		---
Habitat Means			6.28	2.10		1.53	1.17		+			80.58	7.05		97.03	1.87		-			6.43	3.30		1.20	1.20		-	
Fisher's		Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.016
Stouffer's		Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.079
506C/506	3	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	15.63	7.10	4	73.12	24.40	-	-	0.106	4	20.63	5.63	4	18.75	18.75	-	-	0.497
1598C/1598	3	3	2.50	2.50	4	13.75	5.82	-	-	0.096	3	58.33	29.31	4	61.87	18.58	-	-	0.832	3	24.17	19.38	4	24.37	21.95	-	-	0.946
846C/846	3	2	13.75	13.75	2	8.75	1.25	-	+	0.940	2	41.25	18.75	2	91.25	1.25	-	-	0.098	2	40.00	37.50	2	0.00	0.00	-	-	0.407
1650C/1650	3	6	3.33	2.47	0	--	--	-		---	6	72.50	16.06	0	--	--	-		---	6	2.92	2.45	0	--	--	-		---
Habitat Means			4.90	4.70		7.53	2.37		-			46.93	17.83		75.43	14.77		-			21.93	16.25		14.40	13.60		-	
Fisher's		Power	0.169		Power-50%		0.022	P-value		0.190	Power	---		Power-50%		---	P-value		0.034	Power	0.199		Power-50%		0.374	P-value		0.298
Stouffer's		Power	---		Power-50%		---	P-value		0.058	Power	0.088		Power-50%		0.284	P-value		0.248	Power	0.099		Power-50%		0.136	P-value		0.431

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.139. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Coarse Textured. May 1991. Cleared June 1990. (Continued.)

		Annuals (A)								Ephemerals (AE)																	
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	5	1.00	1.00	4	1.25	1.25	-	-	0.879	5	0.50	0.50	4	0.00	0.00	-	+	0.374									
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000									
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1650C/1650	1	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000									
Habitat Means			0.25	0.25		0.33	0.33		-			0.13	0.13		0.00	0.00		+									
Fisher's		Power	---		Power-50%		---	P-value		0.669	Power	---		Power-50%		---	P-value		0.483	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		
506C/506	2	4	8.12	8.12	4	0.63	0.63	-	+	0.502	4	8.12	8.12	4	0.00	0.00	-	+	0.391									
1598C/1598	2	5	4.00	4.00	5	0.00	0.00	-	+	0.374	5	4.00	4.00	5	0.00	0.00	-	+	0.374									
846C/846	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000									
1650C/1650	2	5	1.00	1.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---									
Habitat Means			3.28	3.28		0.20	0.20		+			3.03	3.03		0.00	0.00		-									
Fisher's		Power	---		Power-50%		---	P-value		0.277	Power	---		Power-50%		---	P-value		0.238	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.196	Power	---		Power-50%		---	P-value		0.196	Power	---		Power-50%		---	P-value		
506C/506	3	4	63.13	9.32	4	8.13	5.72	-	+	0.003	4	63.13	9.32	4	4.37	4.37	-	-	0.002									
1598C/1598	3	3	10.00	6.61	4	0.00	0.00	-	+	0.214	3	10.00	6.61	4	0.00	0.00	-	-	0.214									
846C/846	3	2	0.00	0.00	2	0.00	0.00	-	o	1.000	2	0.00	0.00	2	0.00	0.00	-	o	1.000									
1650C/1650	3	6	21.25	16.02	0	--	--	-		---	6	21.25	16.02	0	--	--	-		---									
Habitat Means			23.60	7.98		2.70	1.90		+			23.60	7.98		1.47	1.47		+									
Fisher's		Power	---		Power-50%		---	P-value		0.005	Power	---		Power-50%		---	P-value		0.003	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.120		Power-50%		0.176	P-value		0.114	Power	0.161		Power-50%		0.152	P-value		0.114	Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.140. Algal Percent Cover. Chlorophyta. Prince William Sound. Coarse Textured. May 1991. Cleared June 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group: Bladed Greens								Bladed Greens (AE) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	5	0.50	0.50	4	0.00	0.00	-	+	0.374	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.13	0.13		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.483	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	5	4.00	4.00	5	0.00	0.00	-	+	0.374	5	4.00	4.00	5	0.00	0.00	-	+	0.374	5	4.00	4.00	5	0.00	0.00	-	+	0.374
846C/846	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	2	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
Habitat Means			1.00	1.00		0.00	0.00		+			1.00	1.00		0.00	0.00		+			1.00	1.00		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.409	Power	---		Power-50%		---	P-value		0.409	Power	---		Power-50%		---	P-value		0.409
Stouffer's		Power	---		Power-50%		---	P-value		0.197	Power	---		Power-50%		---	P-value		0.197	Power	---		Power-50%		---	P-value		0.197
506C/506	3	4	10.63	9.81	4	4.37	4.37	-	+	0.616	4	9.38	9.38	4	4.37	4.37	-	+	0.783	4	9.38	9.38	4	4.37	4.37	-	+	0.783
1598C/1598	3	3	7.50	7.50	4	0.00	0.00	-	+	0.423	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
846C/846	3	2	0.00	0.00	2	0.00	0.00	-	o	1.000	2	0.00	0.00	2	0.00	0.00	-	o	1.000	2	0.00	0.00	2	0.00	0.00	-	o	1.000
1650C/1650	3	6	17.50	12.50	0	--	--	-		---	6	17.50	12.50	0	--	--	-		---	6	17.50	12.50	0	--	--	-		---
Habitat Means			8.90	7.45		1.47	1.47		+			6.73	5.48		1.47	1.47		+			6.73	5.48		1.47	1.47		+	
Fisher's		Power	0.006		Power-50%		0.006	P-value		0.335	Power	0.001		Power-50%		0.000	P-value		0.590	Power	0.001		Power-50%		0.002	P-value		0.590
Stouffer's		Power	0.005		Power-50%		0.001	P-value		0.220	Power	0.000		Power-50%		0.000	P-value		0.499	Power	0.000		Power-50%		0.000	P-value		0.499

(a) Kornmannia, Monostroma, Ulva and Ulvaria.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Fine Filamentous Greens								Acrosiphonia sp. (A)								Chaetomorpha/Rhizoclonium (A) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	5	0.50	0.50	4	0.00	0.00	-	+	0.374	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.13	0.13		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.483	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	2	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	4	1.25	0.72	4	0.00	0.00	-	+	0.182	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	3	3	7.50	7.50	4	0.00	0.00	-	+	0.423	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
846C/846	3	2	0.00	0.00	2	0.00	0.00	-	o	1.000	2	0.00	0.00	2	0.00	0.00	-	o	1.000	2	0.00	0.00	2	0.00	0.00	-	o	1.000
1650C/1650	3	6	0.00	0.00	0	--	--	-		---	6	0.00	0.00	0	--	--	-		---	6	0.00	0.00	0	--	--	-		---
Habitat Means			2.20	2.05		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.051		Power-50%		0.072	P-value		0.158	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.052		Power-50%		0.054	P-value		0.219	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.140. Algal Percent Cover. Chlorophyta. Prince William Sound. Coarse Textured. May 1991. Cleared June 1990. (Continued.)

		Cladophora sp. (AE)								Ulothrix sp. (AE)								Morphological Group: Tubular and Saccate Greens							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	5	0.50	0.50	4	0.00	0.00	-	+	0.374	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.13	0.13		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.483	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	2	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	4	1.25	0.72	4	0.00	0.00	-	+	0.182	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	3	3	7.50	7.50	4	0.00	0.00	-	+	0.423	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
846C/846	3	2	0.00	0.00	2	0.00	0.00	-	o	1.000	2	0.00	0.00	2	0.00	0.00	-	o	1.000	2	0.00	0.00	2	0.00	0.00	-	o	1.000
1650C/1650	3	6	0.00	0.00	0	--	--	-		---	6	0.00	0.00	0	--	--	-		---	6	0.00	0.00	0	--	--	-		---
Habitat Means			2.20	2.05		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.058		Power-50%		0.098	P-value		0.158	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.058		Power-50%		0.086	P-value		0.219	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Blidingia/Enteromorpha (AE) (a)																									
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	5	0.00	0.00	4	0.00	0.00	-	o	1.000																	
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000																	
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000																	
1650C/1650	1	6	0.00	0.00	2	0.00	0.00	-	o	1.000																	
Habitat Means			0.00	0.00		0.00	0.00		o																		
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
506C/506	2	4	0.00	0.00	4	0.00	0.00	-	o	1.000																	
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000																	
846C/846	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000																	
1650C/1650	2	5	0.00	0.00	0	--	--	-		---																	
Habitat Means			0.00	0.00		0.00	0.00		o																		
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
506C/506	3	4	0.00	0.00	4	0.00	0.00	-	o	1.000																	
1598C/1598	3	3	0.00	0.00	4	0.00	0.00	-	o	1.000																	
846C/846	3	2	0.00	0.00	2	0.00	0.00	-	o	1.000																	
1650C/1650	3	6	0.00	0.00	0	--	--	-		---																	
Habitat Means			0.00	0.00		0.00	0.00		o																		
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

(a) Genera not separated.

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.141. Algal Percent Cover. Phaeophyta. Prince William Sound. Coarse Textured. May 1991. Cleared June 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group: Bladed Browns								Fucus cottonii (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	5	1.50	1.00	4	0.00	0.00	-	+	0.186	5	1.50	1.00	4	0.00	0.00	-	+	0.186	5	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	5.50	5.50	5	0.00	0.00	-	+	0.374	5	5.50	5.50	5	0.00	0.00	-	+	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	6	5.42	4.49	6	0.00	0.00	-	+	0.219	6	5.42	4.49	6	0.00	0.00	-	+	0.219	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			3.10	2.75		0.00	0.00		+			3.10	2.75		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.084	Power	---		Power-50%		---	P-value		0.084	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.406		Power-50%		0.337	P-value		0.120	Power	0.405		Power-50%		0.311	P-value		0.120	Power	---		Power-50%		---	P-value		0.500
506C/506	2	4	21.25	8.81	4	1.88	1.88	-	+	0.081	4	13.13	5.34	4	1.88	1.88	-	+	0.111	4	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	5	0.50	0.50	5	0.00	0.00	-	+	0.374	5	0.50	0.50	5	0.00	0.00	-	+	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	4	10.63	5.90	5	0.50	0.50	-	+	0.053	4	10.63	5.90	5	0.50	0.50	-	+	0.053	4	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	2	5	1.50	1.50	0	--	--	-		---	5	1.50	1.50	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
Habitat Means			8.47	4.18		0.80	0.80		+			6.43	3.30		0.80	0.80		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.009	Power	---		Power-50%		---	P-value		0.012	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.079	Power	---		Power-50%		---	P-value		0.079	Power	---		Power-50%		---	P-value		0.500
506C/506	3	4	73.13	5.72	4	18.75	18.75	-	+	0.029	4	20.63	5.63	4	18.75	18.75	-	+	0.497	4	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	3	3	12.50	6.29	4	24.37	21.95	-	-	0.832	3	10.00	5.77	4	24.37	21.95	-	-	0.759	3	0.00	0.00	4	0.00	0.00	-	o	1.000
846C/846	3	2	40.00	37.50	2	0.00	0.00	-	+	0.407	2	40.00	37.50	2	0.00	0.00	-	+	0.407	2	0.00	0.00	2	0.00	0.00	-	o	1.000
1650C/1650	3	6	4.17	4.17	0	--	--	-		---	6	0.42	0.42	0	--	--	-		---	6	0.00	0.00	0	--	--	-		---
Habitat Means			32.45	13.43		14.40	13.60		+			17.75	12.32		14.40	13.60		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.048	Power	0.179		Power-50%		0.443	P-value		0.328	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.352		Power-50%		0.565	P-value		0.482	Power	0.232		Power-50%		0.563	P-value		0.522	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Fucus gardneri (P)								Adult Fucus gardneri (P) (> 2cm)								Juvenile Fucus gardneri (P) (<= 2cm)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	5	1.50	1.00	4	0.00	0.00	-	+	0.186	5	0.50	0.50	4	0.00	0.00	-	+	0.374	5	1.00	1.00	4	0.00	0.00	-	-	0.374
1598C/1598	1	5	5.50	5.50	5	0.00	0.00	-	+	0.374	5	4.50	4.50	5	0.00	0.00	-	+	0.374	5	1.00	1.00	5	0.00	0.00	-	-	0.374
846C/846	1	6	5.42	4.49	6	0.00	0.00	-	+	0.219	6	5.42	4.49	6	0.00	0.00	-	+	0.219	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			3.10	2.75		0.00	0.00		+			2.60	2.38		0.00	0.00		+			0.50	0.50		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.084	Power	0.032		Power-50%		0.025	P-value		0.130	Power	---		Power-50%		---	P-value		0.303
Stouffer's		Power	0.412		Power-50%		0.295	P-value		0.120	Power	0.187		Power-50%		0.154	P-value		0.121	Power	---		Power-50%		---	P-value		0.203
506C/506	2	4	13.13	5.34	4	1.88	1.88	-	+	0.111	4	13.13	5.34	4	1.25	1.25	-	+	0.085	4	0.00	0.00	4	0.63	0.63	-	-	0.391
1598C/1598	*2*	*5*	*0.50*	*0.50*	*5*	*0.00*	*0.00*	-	+	0.374	5	0.50	0.50	5	0.00	0.00	-	+	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	4	10.63	5.90	5	0.50	0.50	-	+	0.053	4	10.63	5.90	5	0.50	0.50	-	+	0.053	4	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	2	5	1.50	1.50	0	--	--	-		---	5	1.50	1.50	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
Habitat Means			6.43	3.30		0.80	0.80		+			6.43	3.30		0.60	0.60		+			0.00	0.00		0.20	0.20		-	
Fisher's		Power	---		Power-50%		---	P-value		0.012	Power	---		Power-50%		---	P-value		0.010	Power	---		Power-50%		---	P-value		0.419
Stouffer's		Power	---		Power-50%		---	P-value		0.079	Power	---		Power-50%		---	P-value		0.079	Power	---		Power-50%		---	P-value		0.498
506C/506	3	4	20.63	5.63	4	18.75	18.75	-	+	0.497	4	20.63	5.63	4	18.75	18.75	-	+	0.497	4	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	3	3	10.00	5.77	4	24.37	21.95	-	-	0.759	3	10.00	5.77	4	24.37	21.95	-	-	0.759	3	0.00	0.00	4	0.00	0.00	-	o	1.000
846C/846	3	2	40.00	37.50	2	0.00	0.00	-	+	0.407	2	40.00	37.50	2	0.00	0.00	-	+	0.407	2	0.00	0.00	2	0.00	0.00	-	o	1.000
1650C/1650	3	6	0.42	0.42	0	--	--	-		---	6	0.42	0.42	0	--	--	-		---	6	0.00	0.00	0	--	--	-		---
Habitat Means			17.75	12.32		14.40	13.60		+			17.75	12.32		14.40	13.60		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.166		Power-50%		0.414	P-value		0.328	Power	0.188		Power-50%		0.396	P-value		0.328	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.225		Power-50%		0.536	P-value		0.522	Power	0.235		Power-50%		0.532	P-value		0.522	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.141. Algal Percent Cover. Phaeophyta. Prince William Sound. Coarse Textured. May 1991. Cleared June 1990. (Continued.)

		Fucus Stipes (P) (a)								Morphological Group: Coarse Filamentous Browns								Dictyosiphon sp. (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	2	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	3	3	4.17	4.17	4	0.00	0.00	-	+	0.423	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
846C/846	3	2	0.00	0.00	2	0.00	0.00	-	o	1.000	2	0.00	0.00	2	0.00	0.00	-	o	1.000	2	0.00	0.00	2	0.00	0.00	-	o	1.000
1650C/1650	3	6	0.00	0.00	0	--	--	-		---	6	0.00	0.00	0	--	--	-		---	6	0.00	0.00	0	--	--	-		---
Habitat Means			1.05	1.05		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.437	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.221	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

(a) Dead Fucus plants or stipes without blades.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Myelophycus/Scytosiphon (A) (a)								Morphological Group: Fine Filamentous Browns								Fine Filamentous Browns (AE) (b)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	8.12	8.12	4	0.00	0.00	-	-	0.391	4	8.12	8.12	4	0.00	0.00	-	+	0.391
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	2	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	0.00		o			2.03	2.03		0.00	0.00		+			2.03	2.03		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.419	Power	---		Power-50%		---	P-value		0.419
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		0.498
506C/506	3	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	52.50	6.21	4	0.00	0.00	-	+	0.001	4	52.50	6.21	4	0.00	0.00	-	+	0.001
1598C/1598	3	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	2.50	2.50	4	0.00	0.00	-	-	0.423	3	2.50	2.50	4	0.00	0.00	-	+	0.423
846C/846	3	2	0.00	0.00	2	0.00	0.00	-	o	1.000	2	0.00	0.00	2	0.00	0.00	-	o	1.000	2	0.00	0.00	2	0.00	0.00	-	o	1.000
1650C/1650	3	6	0.00	0.00	0	--	--	-		---	6	3.75	3.75	0	--	--	-		---	6	3.75	3.75	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	0.00		o			14.70	3.13		0.00	0.00		+			14.70	3.13		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.003	Power	---		Power-50%		---	P-value		0.003
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.911		Power-50%	0.912		P-value		0.216	Power	0.910		Power-50%	0.909		P-value		0.216

(a) Genera not separated.

Table C-5.142. Algal Percent Cover. Rhodophyta. Prince William Sound. Coarse Textured. May 1991. Cleared June 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group: Bladed Reds								Palmaria spp. (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	5	0.50	0.50	4	1.25	1.25	-	-	0.700	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.13	0.13		0.33	0.33		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.618	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.499	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	4	0.00	0.00	4	1.88	1.20	-	-	0.191	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	2	5	1.00	1.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
Habitat Means			0.25	0.25		0.63	0.40		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.028		Power-50%		---	P-value		0.280	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.010		Power-50%		---	P-value		0.497	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	4	0.00	0.00	4	3.75	1.61	-	-	0.071	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	3	3	14.17	14.17	4	0.00	0.00	-	+	0.423	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
846C/846	3	2	0.00	0.00	2	0.00	0.00	-	o	1.000	2	0.00	0.00	2	0.00	0.00	-	o	1.000	2	0.00	0.00	2	0.00	0.00	-	o	1.000
1650C/1650	3	6	2.50	2.50	0	--	--	-		---	6	0.00	0.00	0	--	--	-		---	6	0.00	0.00	0	--	--	-		---
Habitat Means			4.18	4.18		1.27	0.53		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.080		Power-50%		---	P-value		0.201 y	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.011		Power-50%		---	P-value		0.776	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Coarse Filamentous Reds								Cryptosiphonia woodii (A)								Gloiopeltis furcata (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	5	0.50	0.50	4	1.25	1.25	-	-	0.700	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.50	0.50	4	1.25	1.25	-	-	0.700
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.13	0.13		0.33	0.33		-			0.00	0.00		0.00	0.00		o			0.13	0.13		0.33	0.33		-	
Fisher's		Power	---		Power-50%		---	P-value		0.618	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.618
Stouffer's		Power	---		Power-50%		---	P-value		0.499	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.499
506C/506	2	4	0.00	0.00	4	1.88	1.20	-	-	0.191	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.63	0.63	-	-	0.391
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	2	5	1.00	1.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	1.00	1.00	0	--	--	-		---
Habitat Means			0.25	0.25		0.63	0.40		-			0.00	0.00		0.00	0.00		o			0.25	0.25		0.20	0.20		-	
Fisher's		Power	0.023		Power-50%		---	P-value		0.280	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.419 y
Stouffer's		Power	0.008		Power-50%		---	P-value		0.497	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.498
506C/506	3	4	0.00	0.00	4	3.13	1.57	-	-	0.080	4	0.00	0.00	4	2.50	1.77	-	-	0.204	4	0.00	0.00	4	0.63	0.63	-	-	0.391
1598C/1598	3	3	14.17	14.17	4	0.00	0.00	-	+	0.423	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
846C/846	3	2	0.00	0.00	2	0.00	0.00	-	o	1.000	2	0.00	0.00	2	0.00	0.00	-	o	1.000	2	0.00	0.00	2	0.00	0.00	-	o	1.000
1650C/1650	3	6	2.50	2.50	0	--	--	-		---	6	0.00	0.00	0	--	--	-		---	6	0.00	0.00	0	--	--	-		---
Habitat Means			4.18	4.18		1.03	0.53		-			0.00	0.00		0.83	0.60		-			0.00	0.00		0.20	0.20		-	
Fisher's		Power	0.061		Power-50%		---	P-value		0.216 y	Power	0.010		Power-50%		---	P-value		0.291	Power	---		Power-50%		---	P-value		0.419
Stouffer's		Power	0.009		Power-50%		---	P-value		0.776	Power	0.003		Power-50%		---	P-value		0.497	Power	---		Power-50%		---	P-value		0.498

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.142. Algal Percent Cover. Rhodophyta. Prince William Sound. Coarse Textured. May 1991. Cleared June 1990. (Continued.)

		Neorhodomela/Rhodomela (P) (a)									Odonthalia floccosa (P)									Morphological Group: Saccate Reds								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.698	Power	---		Power-50%	---	P-value			0.698	Power	---		Power-50%	---	P-value			0.698
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500
506C/506	2	4	0.00	0.00	4	1.25	1.25	-	-	0.391	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	2	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
Habitat Means			0.00	0.00		0.43	0.43		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.419	Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.655
Stouffer's		Power	---		Power-50%	---	P-value			0.498	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500
506C/506	3	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	3	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	14.17	14.17	4	0.00	0.00	-	+	0.423	3	0.00	0.00	4	0.00	0.00	-	o	1.000
846C/846	3	2	0.00	0.00	2	0.00	0.00	-	o	1.000	2	0.00	0.00	2	0.00	0.00	-	o	1.000	2	0.00	0.00	2	0.00	0.00	-	o	1.000
1650C/1650	3	6	0.00	0.00	0	--	--	-		---	6	2.50	2.50	0	--	--	-		---	6	0.00	0.00	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	0.00		o			4.18	4.18		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.437	Power	---		Power-50%	---	P-value			0.655
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.221	Power	---		Power-50%	---	P-value			0.500

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Halosaccion glandiforme (A)									Morphological Group: Fine Filamentous Reds									Polysiphonia/Pterosiphonia (A) (a)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.698	Power	---		Power-50%	---	P-value			0.698	Power	---		Power-50%	---	P-value			0.698
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500
506C/506	2	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	2	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.655
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500
506C/506	3	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.63	0.63	-	-	0.391	4	0.00	0.00	4	0.63	0.63	-	-	0.391
1598C/1598	3	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
846C/846	3	2	0.00	0.00	2	0.00	0.00	-	o	1.000	2	0.00	0.00	2	0.00	0.00	-	o	1.000	2	0.00	0.00	2	0.00	0.00	-	o	1.000
1650C/1650	3	6	0.00	0.00	0	--	--	-		---	6	0.00	0.00	0	--	--	-		---	6	0.00	0.00	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.20	0.20		-			0.00	0.00		0.20	0.20		-	
Fisher's		Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.419	Power	---		Power-50%	---	P-value			0.419
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.498	Power	---		Power-50%	---	P-value			0.498

(a) Genera not separated.
x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.143. Algal Percent Cover. Invertebrates. Prince William Sound. Coarse Textured. May 1991. Cleared June 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Balanomorpha								Lottiidae								Mytilus							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	*1*	*6*	*0.00*	*0.00*	*6*	*0.00*	*0.00*	-	o	*1.000*	*6*	*0.00*	*0.00*	*6*	*0.00*	*0.00*	-	o	*1.000*	*6*	*0.00*	*0.00*	*6*	*0.00*	*0.00*	-	o	*1.000*
1650C/1650	1	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	4	5.00	2.70	4	0.63	0.63	-	+	0.135	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	5	7.50	2.50	5	1.50	1.00	-	+	0.078	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.50	0.50	5	0.00	0.00	-	+	0.374
846C/846	2	4	7.50	1.02	5	2.50	1.94	-	+	0.048	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.63	0.63	5	0.00	0.00	-	+	0.391
1650C/1650	2	5	4.00	2.92	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
Habitat Means			6.00	2.28		1.53	1.17		-			0.00	0.00		0.00	0.00		o			0.28	0.28		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.004	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.238
Stouffer's		Power	---		Power-50%		---	P-value		0.012	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.137
506C/506	3	4	*0.00*	*0.00*	4	*0.00*	*0.00*	-	o	*1.000*	4	*0.00*	*0.00*	4	*0.00*	*0.00*	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	3	3	2.50	2.50	4	13.75	5.82	-	-	0.096	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
846C/846	3	2	13.75	13.75	2	8.75	1.25	-	+	0.940	2	0.00	0.00	2	0.00	0.00	-	o	1.000	2	0.00	0.00	2	0.00	0.00	-	o	1.000
1650C/1650	3	6	3.33	2.47	0	--	--	-		---	6	0.00	0.00	0	--	--	-		---	6	0.00	0.00	0	--	--	-		---
Habitat Means			4.90	4.70		7.53	2.37		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.172		Power-50%		0.028	P-value		0.190	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.058	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Littorinidae																									
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	5	0.00	0.00	4	1.25	1.25	-	-	0.391																	
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000																	
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000																	
1650C/1650	1	6	0.00	0.00	2	0.00	0.00	-	o	1.000																	
Habitat Means			*0.00*	*0.00*		*0.33*	*0.33*		-																		
Fisher's		Power	---		Power-50%		---	p-value		0.492	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	p-value		0.498	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
506C/506	2	4	0.00	0.00	4	0.00	0.00	-	o	1.000																	
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000																	
846C/846	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000																	
1650C/1650	2	5	0.00	0.00	0	--	--	-		---																	
Habitat Means			0.00	0.00		0.00	0.00		o																		
Fisher's		Power	---		Power-50%		---	p-value		0.655	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	p-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
506C/506	3	4	0.00	0.00	4	0.00	0.00	-	o	1.000																	
1598C/1598	3	3	0.00	0.00	4	0.00	0.00	-	o	1.000																	
846C/846	3	2	0.00	0.00	2	0.00	0.00	-	o	1.000																	
1650C/1650	3	6	0.00	0.00	0	--	--	-		---																	
Habitat Means			0.00	0.00		0.00	0.00		o																		
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.144. Algal Percent Cover. Substrates. Prince William Sound. Coarse Textured. May 1991. Cleared June 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Rock								Oiled Rock								Mud							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	5	97.50	1.94	4	96.88	1.87	-	+	0.770	5	0.00	0.00	4	0.63	0.63	-	-	0.391	5	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	94.50	5.50	5	100.00	0.00	-	-	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	6	93.75	4.41	6	100.00	0.00	-	-	0.128	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	100.00	0.00	2	100.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			96.45	2.95		99.23	0.48		-			0.00	0.00		0.15	0.15		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.472		Power-50%		1.000	P-value		0.190	Power	---		Power-50%		---	P-value		0.492	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.415		Power-50%		1.000	P-value		0.106	Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		0.500
506C/506	2	4	73.75	7.81	4	95.63	2.77	-	-	0.034	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	5	87.50	4.26	5	98.50	1.00	-	-	0.012	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	4	67.50	11.86	5	97.00	1.84	-	-	0.010	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	2	5	93.50	4.15	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
Habitat Means			80.58	7.05		97.03	1.87		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	4	15.63	7.10	4	73.12	24.40	-	-	0.106	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	+	0.423
1598C/1598	3	3	58.33	29.31	4	61.87	18.58	-	-	0.832	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.83	0.83	4	0.00	0.00	-	+	0.423
846C/846	3	2	41.25	18.75	2	91.25	1.25	-	-	0.098	2	0.00	0.00	2	0.00	0.00	-	o	1.000	2	0.00	0.00	2	0.00	0.00	-	o	1.000
1650C/1650	3	6	72.50	16.06	0	--	--	-		---	6	0.00	0.00	0	--	--	-		---	6	0.00	0.00	0	--	--	-		---
Habitat Means			46.93	17.83		75.43	14.77		-			0.00	0.00		0.00	0.00		o			0.20	0.20		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.034	Power	-		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.437
Stouffer's		Power	0.395		Power-50%		0.565	P-value		0.248	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.221

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Sand								Shell Fragments								Water							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.10	0.10		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.401	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	4	12.50	12.50	5	0.00	0.00	-	-	0.391	4	1.25	1.25	5	0.00	0.00	-	+	0.391	4	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	2	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
Habitat Means			3.13	3.13		0.00	0.00		+			0.33	0.33		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.419	Power	---		Power-50%		---	P-value		0.419	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.404	Power	---		Power-50%		---	P-value		0.404	Power	---		Power-50%		---	P-value		0.500
506C/506	3	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.63	0.63	4	0.00	0.00	-	+	0.391	4	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	3	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
846C/846	3	2	3.75	3.75	2	0.00	0.00	-	+	0.500	2	1.25	1.25	2	0.00	0.00	-	+	0.500	2	0.00	0.00	2	0.00	0.00	-	o	1.000
1650C/1650	3	6	0.00	0.00	0	--	--	-		---	6	0.00	0.00	0	--	--	-		---	6	0.00	0.00	0	--	--	-		---
Habitat Means			0.95	0.95		0.00	0.00		+			0.48	0.48		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.476	Power	---		Power-50%		---	P-value		0.284	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.424	Power	---		Power-50%		---	P-value		0.422	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.144. Algal Percent Cover. Substrates. Prince William Sound. Coarse Textured. May 1991. Cleared June 1990. (Continued.)

		Zostera/Phyllospadix								Sand and Mud								Total Substrate							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	97.50	1.94	4	97.50	1.44	-	o	0.862
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	94.50	5.50	5	100.00	0.00	-	-	0.374
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	94.17	4.41	6	100.00	0.00	-	-	0.138
1650C/1650	1	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	100.00	0.00	2	100.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.10	0.10		0.00	0.00		+			96.55	2.95		99.38	0.35		-	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.477	Power	0.466		Power-50%		1.000	P-value		0.190
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.401	Power	0.438		Power-50%		1.000	P-value		0.108
506C/506	2	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	73.75	7.81	4	95.63	2.77	-	-	0.034
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	87.50	4.26	5	98.50	1.00	-	-	0.012
846C/846	*2*	*4*	*0.00*	*0.00*	*5*	*0.00*	*0.00*	-	*o*	*1.000*	4	13.75	12.14	5	0.00	0.00	-	+	0.266	4	81.25	5.82	5	97.00	1.84	-	-	0.014
1650C/1650	2	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	93.50	4.15	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	0.00		o			3.45	3.02		0.00	0.00		+			84.03	5.53		97.03	1.87		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.001		Power-50%		0.003	P-value		0.339	Power	---		Power-50%		---	P-value		0.000
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.001	P-value		0.376	Power	---		Power-50%		---	P-value		0.001
506C/506	3	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.63	0.63	4	0.00	0.00	-	+	0.391	4	16.25	6.88	4	73.12	24.40	-	-	0.110
1598C/1598	3	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.83	0.83	4	0.00	0.00	-	+	0.423	3	59.17	28.48	4	61.87	18.58	-	-	0.918
846C/846	*3*	*2*	*0.00*	*0.00*	*2*	*0.00*	*0.00*	-	*o*	*1.000*	2	5.00	5.00	2	0.00	0.00	-	+	0.500	2	46.25	23.75	2	91.25	1.25	-	-	0.168
1650C/1650	3	6	0.00	0.00	0	--	--	-		---	6	0.00	0.00	0	--	--	-		---	6	72.50	16.06	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	0.00		o			1.60	1.60		0.00	0.00		+			48.58	18.82		75.43	14.77		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.166	Power	---		Power-50%		---	P-value		0.055
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		*0.167*	Power	0.391		Power-50%		*0.240*	P-value		*0.309*

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.145. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Coarse Textured. July 1991. Cleared July 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Algal Diversity Index (a)								Algal Taxa Richness (b)								Total Algae							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.33	0.21	4	0.50	0.29	-	-	0.645	6	0.83	0.53	4	10.00	7.07	-	-	0.184
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.20	0.20	5	0.00	0.00	-	+	0.374	5	3.00	3.00	5	0.00	0.00	-	-	0.374
846C/846	1	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.20	0.20	-	-	0.374	3	0.00	0.00	5	5.00	5.00	-	-	0.374
1650C/1650	1	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.17	0.17	2	0.00	0.00	-	+	0.363	6	2.92	2.92	2	0.00	0.00	-	-	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.18	0.14		0.18	0.12		+			1.68	1.60		3.75	3.03		-	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	0.000		Power-50%		0.000	P-value		0.438	Power	0.086		Power-50%		0.153	P-value		0.347
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.000	P-value		0.212	Power	0.029		Power-50%		0.246	P-value		0.787
506C/506	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.40	0.24	4	0.50	0.29	-	-	0.798	5	1.50	1.00	4	11.87	11.06	-	-	0.398
1598C/1598	2	4	0.04	0.04	5	0.00	0.00	-	+	0.391	4	1.00	0.41	5	0.00	0.00	-	+	0.092	4	36.88	22.23	5	0.00	0.00	-	+	0.146
846C/846	2	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.20	0.20	-	-	0.374	2	0.00	0.00	5	2.00	2.00	-	-	0.374
1650C/1650	2	6	0.00	0.00	1	0.00	--	-	o	---	6	0.67	0.21	1	0.00	--	-	+	---	6	9.17	5.50	1	0.00	--	-	+	---
Habitat Means			0.01	0.01		0.00	0.00		+			0.52	0.22		0.18	0.16		-			11.90	7.17		3.48	4.37		-	
Fisher's		Power	---		Power-50%		---	P-value		0.419	Power	0.022		Power-50%		0.419	P-value		0.508xy	Power	0.012		Power-50%		0.087	P-value		0.346 y
Stouffer's		Power	---		Power-50%		---	P-value		0.206	Power	0.002		Power-50%		0.431	P-value		0.914	Power	0.001		Power-50%		0.128	P-value		0.872
506C/506	3	5	0.15	0.09	4	0.25	0.15	-	-	0.569	5	1.80	0.49	4	2.50	0.87	-	-	0.482	5	41.00	16.29	4	31.25	21.25	-	+	0.598
1598C/1598	3	4	0.04	0.04	5	0.00	0.00	-	-	0.391	4	1.25	0.25	5	0.40	0.24	-	+	0.047	4	53.75	24.84	5	2.00	2.46	-	+	0.099
846C/846	3	2	0.21	0.21	3	0.00	0.00	-	-	0.500	2	2.00	1.00	3	0.33	0.33	-	+	0.148	2	40.00	7.50	3	33.33	33.33	-	+	0.829
1650C/1650	3	5	0.11	0.08	2	0.00	0.00	-	-	0.245	5	1.40	0.51	2	0.00	0.00	-	+	0.052	5	34.00	12.91	2	0.00	0.00	-	+	0.032
Habitat Means			0.13	0.11		0.06	0.04		+			1.61	0.56		0.81	0.36		+			42.20	15.38		16.65	14.03		+	
Fisher's		Power	0.147		Power-50%		0.324	P-value		0.207	Power	---		Power-50%		---	P-value		0.008	Power	---		Power-50%		---	P-value		0.018
Stouffer's		Power	0.193		Power-50%		0.488	P-value		0.103	Power	---		Power-50%		---	P-value		0.003	Power	---		Power-50%		---	P-value		0.017

(a) Modified Shannon Index.
(b) Taxa richness calculations are explained in the methods.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Invertebrates								Rock								Perennials (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.63	0.63	-	-	0.391	6	98.33	0.83	4	89.38	7.10	-	+	0.278	6	0.83	0.53	4	10.00	7.07	-	-	0.184
1598C/1598	1	5	2.00	1.46	5	4.50	3.91	-	-	0.736	5	95.00	2.85	5	95.50	3.91	-	-	0.732	5	3.00	3.00	5	0.00	0.00	-	+	0.374
846C/846	1	3	0.00	0.00	5	1.50	1.00	-	-	0.186	3	97.50	2.50	5	93.00	5.21	-	+	0.554	3	0.00	0.00	5	5.00	5.00	-	-	0.374
1650C/1650	1	6	2.08	1.36	2	0.00	0.00	-	-	0.178	6	95.00	4.08	2	100.00	0.00	-	-	0.215	6	2.92	2.92	2	0.00	0.00	-	+	0.363
Habitat Means			1.02	0.72		1.65	1.38		-			96.45	2.58		94.48	4.05		-			1.68	1.60		3.75	3.03		-	
Fisher's		Power	0.028		Power-50%		0.064	P-value		0.251	Power	0.033		Power-50%		1.000	P-value		0.492 y	Power	0.086		Power-50%		0.171	P-value		0.347
Stouffer's		Power	0.031		Power-50%		0.062	P-value		0.361	Power	0.006		Power-50%		1.000	P-value		0.326	Power	0.028		Power-50%		0.269	P-value		0.787
506C/506	2	5	0.50	0.50	4	3.75	1.61	-	-	0.075	5	98.00	1.46	4	84.38	9.86	-	+	0.071	5	1.50	1.00	4	11.87	11.06	-	-	0.398
1598C/1598	2	4	4.37	1.57	5	2.50	1.58	-	+	0.390	4	58.75	20.75	5	97.50	1.58	-	-	0.039	4	36.88	22.23	5	0.00	0.00	-	+	0.146
846C/846	2	2	3.75	3.75	5	4.00	2.45	-	-	0.950	2	96.25	3.75	5	94.00	4.00	-	+	0.923	2	0.00	0.00	5	2.00	2.00	-	-	0.374
1650C/1650	2	6	15.42	5.64	1	5.00	--	-	+	---	6	75.42	5.06	1	95.00	--	-	-	---	6	9.17	5.50	1	0.00	--	-	+	---
Habitat Means			6.02	2.88		3.83	1.90		-			82.12	7.80		92.73	5.17		-			11.90	7.17		3.48	4.37		-	
Fisher's		Power	0.232		Power-50%		0.354	P-value		0.205 y	Power	0.034		Power-50%		0.465	P-value		0.219xy	Power	0.012		Power-50%		0.102	P-value		0.346 y
Stouffer's		Power	0.130		Power-50%		0.396	P-value		0.787	Power	0.005		Power-50%		0.523	P-value		0.974	Power	0.001		Power-50%		0.136	P-value		0.872
506C/506	3	5	3.00	1.46	4	2.50	2.50	-	+	0.605	5	56.00	15.28	4	66.25	20.25	-	-	0.598	5	12.50	5.81	4	10.00	6.21	-	-	0.898
1598C/1598	3	4	0.00	0.00	5	7.00	2.42	-	-	0.024	4	46.25	24.84	5	91.00	3.41	-	-	0.089	4	3.75	2.98	5	2.00	1.46	-	+	0.678
846C/846	3	2	28.75	18.75	3	7.50	4.33	-	+	0.252	2	31.25	11.25	3	59.17	29.66	-	-	0.693	2	32.50	15.00	3	0.00	0.00	-	-	0.171
1650C/1650	3	5	12.50	4.87	2	21.25	21.25	-	-	0.871	5	53.50	11.85	2	78.75	21.25	-	-	0.240	5	30.00	11.99	2	0.00	0.00	-	+	0.033
Habitat Means			11.08	6.30		9.58	7.63		-			46.78	15.82		73.83	18.68		-			19.70	8.95		3.00	1.92		-	
Fisher's		Power	0.212		Power-50%		0.248	P-value		0.174 y	Power	---		Power-50%		---	P-value		0.059	Power	---		Power-50%		---	P-value		0.032
Stouffer's		Power	---		Power-50%		---	P-value		0.034	Power	---		Power-50%		---	P-value		0.024	Power	0.636		Power-50%		0.656	P-value		0.100

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.145. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Coarse Textured. July 1991. Cleared July 1990. (Continued.)

		Annuals (A)								Ephemerals (AE)																
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000									
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000									
846C/846	1	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000									
1650C/1650	1	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
506C/506	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000									
1598C/1598	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000									
846C/846	2	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000									
1650C/1650	2	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
506C/506	3	5	28.50	14.24	4	21.25	15.09	-	+	0.688	5	28.50	14.24	4	17.50	15.88	-	+	0.493									
1598C/1598	3	4	50.00	23.80	5	0.00	0.00	-	+	0.108	4	50.00	23.80	5	0.00	0.00	-	+	0.108									
846C/846	3	2	7.50	7.50	3	33.33	33.33	-	-	0.671	2	2.50	2.50	3	33.33	33.33	-	-	0.589									
1650C/1650	3	5	4.00	2.57	2	0.00	0.00	-	+	0.183	5	1.50	1.50	2	0.00	0.00	-	+	0.374									
Habitat Means			22.50	12.03		13.65	12.10		+			20.62	10.50		12.70	12.30		+										
Fisher's		Power	---		Power-50%		---	P-value		0.094	Power	0.167		Power-50%		0.295	P-value		0.123	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.044	Power	---		Power-50%		---	P-value		0.059	Power	---		Power-50%		---	P-value		

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.146. Algal Percent Cover. Chlorophyta. Prince William Sound. Coarse Textured. July 1991. Cleared July 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; · = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group: Bladed Greens								Bladed Greens (AE) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	5	20.50	12.58	4	18.13	14.98	-	·	0.743	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	3	2	2.50	2.50	3	0.00	0.00	-	+	0.500	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000
1650C/1650	3	5	0.00	0.00	2	0.00	0.00	-	o	1.000	5	0.00	0.00	2	0.00	0.00	-	o	1.000	5	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			5.75	3.78		4.53	3.75		·			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.014		Power-50%		0.032	P-value		0.481	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.018		Power-50%		0.033	P-value		0.426	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

(a) Kornmannia, Monostroma, Ulva and Ulvaria.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Fine Filamentous Greens								Acrosiphonia sp. (A)								Chaetomorpha/Rhizoclonium (A) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	5	20.50	12.58	4	15.00	13.39	-	+	0.615	5	0.00	0.00	4	1.25	1.25	-	-	0.391	5	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	3	2	2.50	2.50	3	0.00	0.00	-	+	0.500	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000
1650C/1650	3	5	0.00	0.00	2	0.00	0.00	-	o	1.000	5	0.00	0.00	2	0.00	0.00	-	o	1.000	5	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			5.75	3.78		3.75	3.35		+			0.00	0.00		0.33	0.33		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.016		Power-50%		0.035	P-value		0.443	Power	---		Power-50%		---	P-value		0.492	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.017		Power-50%		0.030	P-value		0.425	Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		0.500

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.146. Algal Percent Cover. Chlorophyta. Prince William Sound. Coarse Textured. July 1991. Cleared July 1990. (Continued.)

		Cladophora sp. (AE)								Ulothrix sp. (AE)								Morphological Group: Tubular and Saccate Greens							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	5	20.50	12.58	4	13.75	13.75	-	x	0.490	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	3.13	1.88	-	-	0.185
1598C/1598	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	3	2	2.50	2.50	3	0.00	0.00	-	-	0.500	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000
1650C/1650	3	5	0.00	0.00	2	0.00	0.00	-	o	1.000	5	0.00	0.00	2	0.00	0.00	-	o	1.000	5	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			5.75	3.78		3.45	3.45		·			0.00	0.00		0.00	0.00		o			0.00	0.00		0.78	0.48		·	
Fisher's		Power	0.036		Power-50%		0.037	P-value		0.399	Power	---		Power-50%		---	P-value		0.698	Power	0.041		Power-50%		---	P-value		0.349
Stouffer's		Power	0.039		Power-50%		0.034	P-value		0.425	Power	---		Power-50%		---	P-value		0.500	Power	0.013		Power-50%		---	P-value		0.497

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Blidingia/Enteromorpha (AE) (a)																									
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000																	
846C/846	1	3	0.00	0.00	5	0.00	0.00	-	o	1.000																	
1650C/1650	1	6	0.00	0.00	2	0.00	0.00	-	o	1.000																	
Habitat Means			0.00	0.00		0.00	0.00		o																		
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
506C/506	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000																	
1598C/1598	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000																	
846C/846	2	2	0.00	0.00	5	0.00	0.00	-	o	1.000																	
1650C/1650	2	6	0.00	0.00	1	0.00	--	-	o	---																	
Habitat Means			0.00	0.00		0.00	0.00		o																		
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
506C/506	3	5	0.00	0.00	4	3.13	1.88	-	-	0.185																	
1598C/1598	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000																	
846C/846	3	2	0.00	0.00	3	0.00	0.00	-	o	1.000																	
1650C/1650	3	5	0.00	0.00	2	0.00	0.00	-	o	1.000																	
Habitat Means			0.00	0.00		0.78	0.48		-																		
Fisher's		Power	0.041		Power-50%		---	P-value		0.349	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.014		Power-50%		---	P-value		0.497	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.147. Algal Percent Cover. Phaeophyta. Prince William Sound. Coarse Textured. July 1991. Cleared July 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group: Bladed Browns								Fucus cottonii (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.83	0.53	4	10.00	7.07	-	-	0.184	6	0.83	0.53	4	10.00	7.07	-	-	0.184	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	3.00	3.00	5	0.00	0.00	-	+	0.374	5	3.00	3.00	5	0.00	0.00	-	+	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	3	0.00	0.00	5	5.00	5.00	-	-	0.374	3	0.00	0.00	5	5.00	5.00	-	-	0.374	3	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	1	6	2.92	2.92	2	0.00	0.00	-	+	0.363	6	2.92	2.92	2	0.00	0.00	-	+	0.363	6	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			1.68	1.60		3.75	3.03		-			1.68	1.60		3.75	3.03		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.079			Power-50%	0.162	P-value		0.347	Power	0.081			Power-50%	0.156	P-value		0.347	Power	---			Power-50%	---	P-value		0.698
Stouffer's		Power	0.027			Power-50%	0.262	P-value		0.787	Power	0.029			Power-50%	0.263	P-value		0.787	Power	---			Power-50%	---	P-value		0.500
506C/506	2	5	1.50	1.00	4	11.87	11.06	-	-	0.398	5	1.50	1.00	4	11.87	11.06	-	-	0.398	5	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	4	15.63	9.32	5	0.00	0.00	-	+	0.105	4	15.63	9.32	5	0.00	0.00	-	+	0.105	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	2	0.00	0.00	5	2.00	2.00	-	-	0.374	2	0.00	0.00	5	2.00	2.00	-	-	0.374	2	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	2	6	9.17	5.50	1	0.00	--	-	+	---	6	9.17	5.50	1	0.00	--	-	+	---	6	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			6.57	3.95		3.48	4.37		-			6.57	3.95		3.48	4.37		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.013			Power-50%	0.138	P-value		0.350 y	Power	0.010			Power-50%	0.143	P-value		0.350 y	Power	---			Power-50%	---	P-value		0.655
Stouffer's		Power	0.002			Power-50%	0.179	P-value		0.903	Power	0.001			Power-50%	0.175	P-value		0.903	Power	---			Power-50%	---	P-value		0.500
506C/506	3	5	20.50	8.67	4	10.63	6.80	-	+	0.614	5	12.50	5.81	4	10.00	6.21	-	-	0.898	5	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	3	4	53.75	24.84	5	2.00	1.46	-	+	0.099	4	3.75	2.98	5	2.00	1.46	-	+	0.678	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	3	2	32.50	15.00	3	33.33	33.33	-	-	0.923	2	32.50	15.00	3	0.00	0.00	-	+	0.171	2	0.00	0.00	3	0.00	0.00	-	o	1.000
1650C/1650	3	5	18.00	7.39	2	0.00	0.00	-	+	0.071	5	15.50	6.77	2	0.00	0.00	-	+	0.075	5	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			31.20	13.98		11.48	10.40		+			16.08	7.65		3.00	1.92		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.038	Power	---			Power-50%	---	P-value		0.055	Power	---			Power-50%	---	P-value		0.698
Stouffer's		Power	---			Power-50%	---	P-value		0.026	Power	0.575			Power-50%	0.660	P-value		0.116	Power	---			Power-50%	---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Fucus gardneri (P)								Adult Fucus gardneri (P) (> 2cm)								Juvenile Fucus gardneri (P) (<= 2cm)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.83	0.53	4	10.00	7.07	-	-	0.184	6	0.83	0.53	4	9.38	7.10	-	-	0.205	6	0.00	0.00	4	0.63	0.63	-	-	0.391
1598C/1598	1	5	3.00	3.00	5	0.00	0.00	-	+	0.374	5	3.00	3.00	5	0.00	0.00	-	+	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	3	0.00	0.00	5	5.00	5.00	-	-	0.374	3	0.00	0.00	5	5.00	5.00	-	-	0.374	3	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	1	6	2.92	2.92	2	0.00	0.00	-	+	0.363	6	2.92	2.92	2	0.00	0.00	-	+	0.363	6	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			1.68	1.60		3.75	3.03		-			1.68	1.60		3.60	3.03		-			0.00	0.00		0.15	0.15		-	
Fisher's		Power	0.078			Power-50%	0.149	P-value		0.347	Power	0.060			Power-50%	0.178	P-value		0.366	Power	---			Power-50%	---	P-value		0.492
Stouffer's		Power	0.029			Power-50%	0.240	P-value		0.787	Power	0.020			Power-50%	0.268	P-value		0.787	Power	---			Power-50%	---	P-value		0.498
506C/506	2	5	1.50	1.00	4	11.87	11.06	-	-	0.398	5	1.50	1.00	4	11.87	11.06	-	-	0.398	5	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	*2*	*4*	*15.63*	*9.32*	5	*0.00*	*0.00*	-	+	*0.105*	4	*15.63*	*9.32*	5	*0.00*	*0.00*	-	+	*0.105*	*4*	*0.00*	*0.00*	5	*0.00*	*0.00*	-	o	*1.000*
846C/846	2	2	0.00	0.00	5	2.00	2.00	-	-	0.374	2	0.00	0.00	5	2.00	2.00	-	-	0.374	2	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	2	6	9.17	5.50	1	0.00	--	-	+	---	6	8.75	5.62	1	0.00	--	-	+	---	6	0.42	0.42	1	0.00	--	-	+	---
Habitat Means			6.57	3.95		3.48	4.37		-			6.48	3.97		3.48	4.37		-			0.10	0.10		0.00	0.00		o	
Fisher's		Power	0.015			Power-50%	0.136	P-value		0.350 y	Power	0.013			Power-50%	0.141	P-value		0.350 y	Power	---			Power-50%	---	P-value		0.655 y
Stouffer's		Power	0.000			Power-50%	0.174	P-value		0.903	Power	0.003			Power-50%	0.184	P-value		0.903	Power	---			Power-50%	---	P-value		0.500
506C/506	3	5	12.50	5.81	4	10.00	6.21	-	+	0.898	5	12.50	5.81	4	10.00	6.21	-	-	0.898	5	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	3	4	3.75	2.98	5	2.00	1.46	-	+	0.678	4	3.75	2.98	5	2.00	1.46	-	+	0.678	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	3	2	32.50	15.00	3	0.00	0.00	-	+	0.171	2	32.50	15.00	3	0.00	0.00	-	+	0.171	2	0.00	0.00	3	0.00	0.00	-	o	1.000
1650C/1650	3	5	15.50	6.77	2	0.00	0.00	-	+	0.075	5	15.50	6.77	2	0.00	0.00	-	+	0.075	5	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			16.08	7.65		3.00	1.92		+			16.08	7.65		3.00	1.92		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.055	Power	---			Power-50%	---	P-value		0.055	Power	---			Power-50%	---	P-value		0.698
Stouffer's		Power	0.581			Power-50%	0.705	P-value		0.116	Power	0.569			Power-50%	0.700	P-value		0.116	Power	---			Power-50%	---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.147. Algal Percent Cover. Phaeophyta. Prince William Sound. Coarse Textured. July 1991. Cleared July 1990. (Continued.)

		Fucus Stipes (F) (a)								Morphological Group: Coarse Filamentous Browns								Dictyosiphon sp. (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	3	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000
1650C/1650	3	5	0.00	0.00	2	0.00	0.00	-	o	1.000	5	1.00	1.00	2	0.00	0.00	-	+	0.374	5	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.25	0.25		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.483	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.415	Power	---		Power-50%		---	P-value		0.500

(a) Dead Fucus plants or stipes without blades.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Myelophycus/Scytosiphon (A) (a)								Morphological Group: Fine Filamentous Browns								Fine Filamentous Browns (AE) (b)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	8.00	5.83	4	0.63	0.63	-	+	0.342	5	8.00	5.83	4	0.63	0.63	-	+	0.342
1598C/1598	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	50.00	23.80	5	0.00	0.00	-	+	0.108	4	50.00	23.80	5	0.00	0.00	-	+	0.108
846C/846	3	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	33.33	33.33	-	-	0.423	2	0.00	0.00	3	33.33	33.33	-	-	0.423
1650C/1650	3	5	1.00	1.00	2	0.00	0.00	-	+	0.374	5	1.50	1.50	2	0.00	0.00	-	-	0.374	5	1.50	1.50	2	0.00	0.00	-	+	0.374
Habitat Means			0.25	0.25		0.00	0.00		+			14.88	7.78		8.47	8.47		+			14.88	7.78		8.47	8.47		+	
Fisher's		Power	---		Power-50%		---	P-value		0.483	Power	0.210		Power-50%		0.156	P-value		0.105	Power	0.206		Power-50%		0.181	P-value		0.105
Stouffer's		Power	---		Power-50%		---	P-value		0.415	Power	---		Power-50%		---	P-value		0.068	Power	---		Power-50%		---	P-value		0.068

(a) Genera not separated.

(b) Elachista, Ectocarpus and Pilayella.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.148. Algal Percent Cover. Rhodophyta. Prince William Sound. Coarse Textured. July 1991. Cleared July 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group: Bladed Reds								Palmaria spp. (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	4	21.25	21.25	5	0.00	0.00	-	+	0.391	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			5.32	5.32		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.419	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.206	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	5	0.00	0.00	4	2.50	1.77	-	-	0.204	5	0.00	0.00	4	1.88	1.88	-	-	0.391	5	0.00	0.00	4	1.88	1.88	-	-	0.391
1598C/1598	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	3	2	5.00	5.00	3	0.00	0.00	-	+	0.500	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000
1650C/1650	3	5	16.00	16.00	2	0.00	0.00	-	+	0.374	5	0.00	0.00	2	0.00	0.00	-	o	1.000	5	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			5.25	5.25		0.63	0.45		+			0.00	0.00		0.48	0.48		-			0.00	0.00		0.48	0.48		-	
Fisher's		Power	0.006		Power-50%		---	P-value		0.460	Power	---		Power-50%		---	P-value		0.492	Power	---		Power-50%		---	P-value		0.492
Stouffer's		Power	0.001		Power-50%		---	P-value		0.346	Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		0.498

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Coarse Filamentous Reds								Cryptosiphonia woodii (A)								Gloiopeltis furcata (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	4	21.25	21.25	5	0.00	0.00	-	+	0.391	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			5.32	5.32		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.419	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.206	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	5	0.00	0.00	4	0.63	0.63	-	-	0.391	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.63	0.63	-	-	0.391
1598C/1598	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	3	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000
1650C/1650	3	5	16.00	16.00	2	0.00	0.00	-	+	0.374	5	1.50	1.50	2	0.00	0.00	-	+	0.374	5	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			4.00	4.00		0.15	0.15		+			0.38	0.38		0.00	0.00		+			0.00	0.00		0.15	0.15		-	
Fisher's		Power	---		Power-50%		---	P-value		0.585	Power	---		Power-50%		---	P-value		0.483	Power	---		Power-50%		---	P-value		0.492
Stouffer's		Power	---		Power-50%		---	P-value		0.416	Power	---		Power-50%		---	P-value		0.415	Power	---		Power-50%		---	P-value		0.498

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.148. Algal Percent Cover. Rhodophyta. Prince William Sound. Coarse Textured. July 1991. Cleared July 1990. (Continued.)

		Neorhodomela/Rhodomela (P) (a)									Odonthalia floccosa (P)									Morphological Group: Saccate Reds								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506		6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598		5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846		3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650		6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	21.25	21.25	5	0.00	0.00	-	+	0.391	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00		o			5.32	5.32		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.419	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.206	Power	---		Power-50%		---	P-value		0.500
506C/506	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	3	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000
1650C/1650	3	5	0.00	0.00	2	0.00	0.00	-	o	1.000	5	14.50	14.50	2	0.00	0.00	-	+	0.374	5	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			3.62	3.62		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.483	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.415	Power	---		Power-50%		---	P-value		0.500

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Halosaccion glandiforme (A)									Morphological Group: Fine Filamentous Reds									Polysiphonia/Pterosiphonia (A) (a)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	3	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	5.00	5.00	3	0.00	0.00	-	+	0.500	2	5.00	5.00	3	0.00	0.00	-	-	0.500
1650C/1650	3	5	0.00	0.00	2	0.00	0.00	-	o	1.000	5	0.00	0.00	2	0.00	0.00	-	o	1.000	5	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			1.25	1.25		0.00	0.00		+			1.25	1.25		0.00	0.00		·	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.544	Power	---		Power-50%		---	P-value		0.544
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.426	Power	---		Power-50%		---	P-value		0.426

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.149. Algal Percent Cover. Invertebrates. Prince William Sound. Coarse Textured. July 1991. Cleared July 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Balanomorpha								Lottiidae								Mytilus							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.63	0.63	-	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	2.00	1.46	5	4.50	3.91	-	-	0.736	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	3	0.00	0.00	5	1.50	1.00	-	-	0.186	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	1	6	2.08	1.36	2	0.00	0.00	-	-	0.178	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			1.02	0.72		1.65	1.38		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.032		Power-50%		0.057	P-value		0.251	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.032		Power-50%		0.082	P-value		0.361	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	5	0.50	0.50	4	1.88	1.20	-	-	0.332	5	0.00	0.00	4	0.63	0.63	-	-	0.391	5	0.00	0.00	4	1.25	0.72	-	-	0.182
1598C/1598	2	4	4.37	1.57	5	2.50	1.58	-	+	0.390	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	2	3.75	3.75	5	2.50	1.94	-	+	0.757	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	1.50	1.50	-	-	0.374
1650C/1650	2	6	15.42	5.64	1	2.50	--	-	+	---	6	0.00	0.00	1	2.50	--	-	-	---	6	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			6.02	2.88		2.35	1.57		+			0.00	0.00		0.78	0.20		-			0.00	0.00		0.70	0.73		-	
Fisher's		Power	0.112		Power-50%		0.340	P-value		0.472	Power	---		Power-50%		---	P-value		0.419	Power	0.090		Power-50%		---	P-value		0.146
Stouffer's		Power	0.071		Power-50%		0.404	P-value		0.182	Power	---		Power-50%		---	P-value		0.498	Power	0.090		Power-50%		---	P-value		0.398
506C/506	3	5	3.00	1.46	4	1.25	1.25	-	+	0.383	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	1.25	1.25	-	-	0.391
1598C/1598	3	4	0.00	0.00	5	7.00	2.42	-	-	0.024	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	3	2	28.75	18.75	3	7.50	4.33	-	+	0.252	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000
1650C/1650	3	5	12.50	4.87	2	21.25	21.25	-	-	0.871	5	0.00	0.00	2	0.00	0.00	-	o	1.000	5	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			11.08	6.30		9.28	7.33		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.33	0.33		-	
Fisher's		Power	0.184		Power-50%		0.246	P-value		0.190 y	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.492
Stouffer's		Power	---		Power-50%		---	P-value		0.034	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.498

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Littorinidae																									
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000																	
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000																	
846C/846	1	3	0.00	0.00	5	0.00	0.00	-	o	1.000																	
1650C/1650	1	6	0.00	0.00	2	0.00	0.00	-	o	1.000																	
Habitat Means			0.00	0.00		0.00	0.00		o																		
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
506C/506	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000																	
1598C/1598	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000																	
846C/846	2	2	0.00	0.00	5	0.00	0.00	-	o	1.000																	
1650C/1650	2	6	0.00	0.00	1	0.00	--	-	o	---																	
Habitat Means			0.00	0.00		0.00	0.00		o																		
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
506C/506	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000																	
1598C/1598	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000																	
846C/846	3	2	0.00	0.00	3	0.00	0.00	-	o	1.000																	
1650C/1650	3	5	0.00	0.00	2	0.00	0.00	-	o	1.000																	
Habitat Means			0.00	0.00		0.00	0.00		o																		
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.150. Algal Percent Cover. Substrates. Prince William Sound. Coarse Textured. July 1991. Cleared July 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Rock								Oiled Rock								Mud							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
506C/506	1	6	98.33	0.83	4	89.38	7.10	-	+	0.278	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	95.00	2.85	5	95.50	3.91	-	-	0.732	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	3	97.50	2.50	5	93.00	5.21	-	+	0.554	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	1	6	95.00	4.08	2	100.00	0.00	-	-	0.215	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			96.45	2.58		94.48	4.05		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.031		Power-50%		1.000	P-value		0.492 y	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.005		Power-50%		1.000	P-value		0.326	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	5	98.00	1.46	4	84.38	9.86	-	+	0.071	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	4	58.75	20.75	5	97.50	1.58	-	-	0.039	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	2	96.25	3.75	5	94.00	4.00	-	+	0.923	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	2	6	75.42	5.06	1	95.00	--	-	-	---	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			82.12	7.80		92.73	5.17		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.026		Power-50%		0.459	P-value		0.219 xy	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.003		Power-50%		0.521	P-value		0.974	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	5	56.00	15.28	4	66.25	20.25	-	-	0.598	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	3	4	46.25	24.84	5	91.00	3.41	-	-	0.089	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	3	2	31.25	11.25	3	59.17	29.66	-	-	0.693	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000
1650C/1650	3	5	53.50	11.85	2	78.75	21.25	-	-	0.240	5	0.00	0.00	2	0.00	0.00	-	o	1.000	5	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			46.78	15.82		73.83	18.68		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.059	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.024	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Sand								Shell Fragments								Water							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
506C/506	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.83	0.83	5	0.00	0.00	-	+	0.423	3	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.20	0.20		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.508	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.413	Power	---		Power-50%		---	P-value		0.500
506C/506	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	3	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000
1650C/1650	3	5	0.00	0.00	2	0.00	0.00	-	o	1.000	5	0.00	0.00	2	0.00	0.00	-	o	1.000	5	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.150. Algal Percent Cover. Substrates. Prince William Sound. Coarse Textured. July 1991. Cleared July 1990. (Continued.)

		Zostera/Phyllospadix								Sand and Mud								Total Substrate							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	98.33	0.83	4	89.38	7.10	-	+	0.278
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	95.00	2.85	5	95.50	3.91	-	-	0.732
846C/846	1	3	0.00	0.00	5	0.50	0.50	-	-	0.374	3	0.83	0.83	5	0.00	0.00	-	+	0.423	3	98.33	1.67	5	93.00	5.21	-	+	0.471
1650C/1650	1	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	95.00	4.08	2	100.00	0.00	-	-	0.215
Habitat Means			0.00	0.00		0.13	0.13		-			0.20	0.20		0.00	0.00		,			96.65	2.38		94.48	4.05		-	
Fisher's		Power	---		Power-50%		---	P-value		0.483	Power	---		Power-50%		---	P-value		0.508	Power	0.024		Power-50%		1.000	P-value		0.503 y
Stouffer's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.413	Power	0.002		Power-50%		1.000	P-value		0.339
506C/506	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	98.00	1.46	4	84.38	9.86	-	-	0.071
1598C/1598	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	58.75	20.75	5	97.50	1.58	-	-	0.039
846C/846	2	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	96.25	3.75	5	94.00	4.00	-	.	0.923
1650C/1650	2	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---	6	75.42	5.06	1	95.00	--	-	-	---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			82.12	7.80		92.73	5.17		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	0.029		Power-50%		0.454	P-value		0.219 xy
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	0.004		Power-50%		0.510	P-value		0.974
506C/506	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	56.00	15.28	4	66.25	20.25	-	-	0.598
1598C/1598	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	46.25	24.84	5	91.00	3.41	-	-	0.089
846C/846	3	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	31.25	11.25	3	59.17	29.66	-	-	0.693
1650C/1650	3	5	0.00	0.00	2	0.00	0.00	-	o	1.000	5	0.00	0.00	2	0.00	0.00	-	o	1.000	5	53.50	11.85	2	78.75	21.25	-	-	0.240
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			46.78	15.82		73.83	18.68		-	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.059
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.024

x At least one site pair P-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.151. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Estuarine. June 1991. Cleared June 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Algal Diversity Index (a)									Algal Taxa Richness (b)									Total Algae								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
P15.1C/P15.1	1	5	0.06	0.06	0	--	--	-		---		5	0.60	0.40	0	--	--	-		---		5	4.50	3.39	0	--	--	-		---	
2397C/20809	1	6	0.02	0.02	4	0.00	0.00	-	+	0.363		6	0.83	0.31	4	0.00	0.00	-	+	0.042		6	31.67	14.20	4	0.00	0.00	-	+	0.049	
Habitat Means			0.04	0.04		0.00	0.00		+				0.72	0.35		0.00	0.00		+				18.10	8.80		0.00	0.00		+		
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
P15.1C/P15.1	2	3	0.00	0.00	0	--	--	-		---		3	0.67	0.33	0	--	--	-		---		3	42.50	29.83	0	--	--	-		---	
2397C/20809	2	3	0.08	0.08	6	0.00	0.00	-	+	0.423		3	1.33	0.33	6	0.50	0.22	-	+	0.072		3	74.17	11.58	6	2.08	1.00	-	+	0.000	
Habitat Means			0.04	0.04		0.00	0.00		+				1.00	0.33		0.50	0.22		+				58.35	20.70		2.10	1.00		+		
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
P15.1C/P15.1	3	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
2397C/20809	3	3	0.17	0.14	3	0.07	0.07	-	+	0.584		3	2.00	0.58	3	1.00	0.58	-	+	0.288		3	69.17	28.37	3	9.17	7.95	-	+	0.098	
Habitat Means			0.17	0.14		0.07	0.07		+				2.00	0.58		1.00	0.58		+				69.20	28.40		9.20	8.00		+		
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	

(a) Modified Shannon Index.
(b) Taxa richness calculations are explained in the methods.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Invertebrates									Rock									Perennials (P)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
P15.1C/P15.1	1	5	0.00	0.00	0	--	--	-		---		5	32.50	19.12	0	--	--	-		---		5	4.50	3.39	0	--	--	-		---	
2397C/20809	1	6	1.25	0.56	4	0.00	0.00	-	+	0.076		6	61.67	17.10	4	100.00	0.00	-	-	0.040		6	31.05	14.18	4	0.00	0.00	-	-	0.051	
Habitat Means			0.65	0.30		0.00	0.00		+				47.10	18.10		100.00	0.00		-				17.80	8.80		0.00	0.00		-		
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
P15.1C/P15.1	2	3	0.00	0.00	0	--	--	-		---		3	0.00	0.00	0	--	--	-		---		3	9.17	9.17	0	--	--	-		---	
2397C/20809	2	3	1.67	1.67	6	0.00	0.00	-	+	0.423		3	24.17	13.10	6	97.92	1.00	-	-	0.000		3	68.33	13.33	6	2.08	1.00	-	-	0.000	
Habitat Means			0.85	0.85		0.00	0.00		+				12.10	6.55		97.90	1.00		-				38.75	11.25		2.10	1.00		-		
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
P15.1C/P15.1	3	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
2397C/20809	3	3	4.17	3.00	3	2.50	2.50	-	+	0.633		3	26.67	25.43	3	88.33	6.82	-	-	0.076		3	11.67	6.51	3	7.50	6.29	-	-	0.718	
Habitat Means			4.20	3.00		2.50	2.50		+				26.70	25.40		88.30	6.80		-				11.70	6.50		7.50	6.30		-		
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.151. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Estuarine. June 1991. Cleared June 1990. (Continued.)

		Annuals (A)									Ephemerals (AE)																				
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
P15.1C/P15.1	1	5	0.00	0.00	0	--	--	-		---		5	0.00	0.00	0	--	--	-		---											
2397C/20809	1	6	0.63	0.63	4	0.00	0.00	-	+	0.363		6	0.63	0.63	4	0.00	0.00	-	+	0.363											
Habitat Means			0.30	0.30		0.00	0.00		+				0.30	0.30		0.00	0.00		+												
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value			
P15.1C/P15.1	2	3	33.33	33.33	0	--	--	-		---		3	33.33	33.33	0	--	--	-		---											
2397C/20809	2	3	5.83	5.83	6	0.00	0.00	-	+	0.423		3	5.83	5.83	6	0.00	0.00	-	+	0.423											
Habitat Means			19.55	19.55		0.00	0.00		+				19.55	19.55		0.00	0.00		+												
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value			
P15.1C/P15.1	3	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---											
2397C/20809	3	3	57.50	29.83	3	1.67	1.67	-	+	0.166		3	57.50	29.83	3	1.67	1.67	-	+	0.166											
Habitat Means			57.50	29.80		1.70	1.70		+				57.50	29.80		1.70	1.70		+												
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value			

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.152. Algal Percent Cover. Chlorophyta. Prince William Sound. Estuarine. June 1991. Cleared June 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group: Bladed Greens								Bladed Greens (AE) (a)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
2397C/20809	1	6	0.63	0.63	4	0.00	0.00	-	+	0.363	6	0.63	0.63	4	0.00	0.00	-	+	0.363	6	0.63	0.63	4	0.00	0.00	-	+	0.363
Habitat Means			0.30	0.30		0.00	0.00		+			0.30	0.30		0.00	0.00		+			0.30	0.30		0.00	0.00		+	
Fisher's	Power		---		Power-50%		---	P-value		--- z	Power		---		Power-50%		---	P-value		--- z	Power		---		Power-50%		---	P-value		--- z
Stouffer's	Power		---		Power-50%		---	P-value		---	Power		---		Power-50%		---	P-value		---	Power		---		Power-50%		---	P-value		---
P15.1C/P15.1	2	3	33.33	33.33	0	--	--	-		---	3	33.33	33.33	0	--	--	-		---	3	33.33	33.33	0	--	--	-		---
2397C/20809	2	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			16.65	16.65		0.00	0.00		o			16.65	16.65		0.00	0.00		o			16.65	16.65		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		--- yz	Power		---		Power-50%		---	P-value		--- yz	Power		---		Power-50%		---	P-value		--- yz
Stouffer's	Power		---		Power-50%		---	P-value		---	Power		---		Power-50%		---	P-value		---	Power		---		Power-50%		---	P-value		---
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	3	9.17	7.95	3	1.67	1.67	-	+	0.427	3	9.17	7.95	3	0.00	0.00	-	+	0.280	3	9.17	7.95	3	0.00	0.00	-	+	0.280
Habitat Means			9.20	8.00		1.70	1.70		+			9.20	8.00		0.00	0.00		+			9.20	8.00		0.00	0.00		+	
Fisher's	Power		---		Power-50%		---	P-value		--- z	Power		---		Power-50%		---	P-value		--- z	Power		---		Power-50%		---	P-value		--- z
Stouffer's	Power		---		Power-50%		---	P-value		---	Power		---		Power-50%		---	P-value		---	Power		---		Power-50%		---	P-value		---

(a) Korrmannia, Monostroma, Ulva and Ulvaria.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Fine Filamentous Greens								Acrosiphonia sp. (A)								Chaetomorpha/Rhizoclonium (A) (a)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
2397C/20809	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		--- z	Power		---		Power-50%		---	P-value		--- z	Power		---		Power-50%		---	P-value		--- z
Stouffer's	Power		---		Power-50%		---	P-value		---	Power		---		Power-50%		---	P-value		---	Power		---		Power-50%		---	P-value		---
P15.1C/P15.1	2	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---
2397C/20809	2	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		--- z	Power		---		Power-50%		---	P-value		--- z	Power		---		Power-50%		---	P-value		--- z
Stouffer's	Power		---		Power-50%		---	P-value		---	Power		---		Power-50%		---	P-value		---	Power		---		Power-50%		---	P-value		---
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		--- z	Power		---		Power-50%		---	P-value		--- z	Power		---		Power-50%		---	P-value		--- z
Stouffer's	Power		---		Power-50%		---	P-value		---	Power		---		Power-50%		---	P-value		---	Power		---		Power-50%		---	P-value		---

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.152. Algal Percent Cover. Chlorophyta. Prince William Sound. Estuarine. June 1991. Cleared June 1990. (Continued.)

Site Pair	Mvd	Cladophora sp. (AE) N	C	SE	Morphological Group: Tubular and Saccate Greens N	C	SE	Blidingia/Enteromorpha (AE) (a) N	C	SE
P15.1C/P15.1	1	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00
2397C/20809	1	6	0.00	0.00	6	0.00	0.00	6	0.00	0.00
Habitat Means			0.00	0.00		0.00	0.00		0.00	0.00
P15.1C/P15.1	2	3	0.00	0.00	3	0.00	0.00	3	0.00	0.00
2397C/20809	2	3	0.00	0.00	3	0.00	0.00	3	0.00	0.00
Habitat Means			0.00	0.00		0.00	0.00		0.00	0.00
P15.1C/P15.1	3	0	--	--	0	--	--	0	--	--
2397C/20809	3	3	0.00	0.00	3	0.00	0.00	3	0.00	0.00
Habitat Means			0.00	0.00		0.00	0.00		0.00	0.00

Site Pair	Mvd	Cladophora sp. (AE) O	SE	CV	D	P	Morphological Group: Tubular and Saccate Greens O	SE	CV	D	P	Blidingia/Enteromorpha (AE) (a) O	SE	CV	D	P
P15.1C/P15.1	1	0	--	--		---	0	--	--		---	0	--	--		---
2397C/20809	1	4	0.00	0.00	o	1.000	4	0.00	0.00	o	1.000	4	0.00	0.00	o	1.000
Habitat Means			0.00	0.00	o			0.00	0.00	o			0.00	0.00	o	
P15.1C/P15.1	2	0	--	--		---	0	--	--		---	0	--	--		---
2397C/20809	2	6	0.00	0.00	o	1.000	6	0.00	0.00	o	1.000	6	0.00	0.00	o	1.000
Habitat Means			0.00	0.00	o			0.00	0.00	o			0.00	0.00	o	
P15.1C/P15.1	3	0	--	--		---	0	--	--		---	0	--	--		---
2397C/20809	3	3	0.00	0.00	o	1.000	3	1.67	1.67	-	0.423	3	1.67	1.67	-	0.423
Habitat Means			0.00	0.00	o			1.70	1.70	-			1.70	1.70	-	

	Cladophora sp. (AE)						Morphological Group: Tubular and Saccate Greens						Blidingia/Enteromorpha (AE) (a)					
Fisher's	Power	---	Power-50%	---	P-value	---	z Power	---	Power-50%	---	P-value	---	z Power	---	Power-50%	---	P-value	--- z
Stouffer's	Power	---	Power-50%	---	P-value	---	Power	---	Power-50%	---	P-value	---	Power	---	Power-50%	---	P-value	---
Fisher's	Power	---	Power-50%	---	P-value	---	z Power	---	Power-50%	---	P-value	---	z Power	---	Power-50%	---	P-value	--- z
Stouffer's	Power	---	Power-50%	---	P-value	---	Power	---	Power-50%	---	P-value	---	Power	---	Power-50%	---	P-value	---
Fisher's	Power	---	Power-50%	---	P-value	---	z Power	---	Power-50%	---	P-value	---	z Power	---	Power-50%	---	P-value	--- x
Stouffer's	Power	---	Power-50%	---	P-value	---	Power	---	Power-50%	---	P-value	---	Power	---	Power-50%	---	P-value	---

(a) Camera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.153. Algal Percent Cover. Phaeophyta. Prince William Sound. Estuarine. June 1991. Cleared June 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta									Morphological Group: Bladed Browns										Fucus cottonii (P)									
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
P15.1C/P15.1	1	5	4.50	3.39	0	--	--	-		---	5	4.50	3.39	0	--	--	-		---		5	0.50	0.50	0	--	--	-		---	
2397C/20809	1	6	31.05	14.18	4	0.00	0.00	-	+	0.051	6	31.05	14.18	4	0.00	0.00	-	+	0.051		6	0.00	0.00	4	0.00	0.00	-	o	1.000	
Habitat Means			17.80	8.80		0.00	0.00		+			17.80	8.80		0.00	0.00		+				0.25	0.25		0.00	0.00		o		
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	yz
P15.1C/P15.1	2	3	9.17	9.17	0	--	--	-		---	3	9.17	9.17	0	--	--	-		---		3	0.00	0.00	0	--	--	-		---	
2397C/20809	2	3	74.17	11.58	6	1.25	0.85	-	+	0.000	3	68.33	13.33	6	1.25	0.85	-	+	0.000		3	0.00	0.00	6	0.00	0.00	-	o	1.000	
Habitat Means			41.70	10.40		1.30	0.90		+			38.75	11.25		1.30	0.90		+				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
2397C/20809	3	3	60.00	25.04	3	7.50	6.29	-	+	0.100	3	11.67	6.51	3	7.50	6.29	-	+	0.718		3	0.00	0.00	3	0.00	0.00	-	o	1.000	
Habitat Means			60.00	25.00		7.50	6.30		+			11.70	6.50		7.50	6.30		+				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Fucus gardneri (P)									Adult Fucus gardneri (P) (> 2cm)										Juvenile Fucus gardneri (P) (<= 2cm)									
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
P15.1C/P15.1	1	5	4.00	3.41	0	--	--	-		---	5	4.00	3.41	0	--	--	-		---		5	0.00	0.00	0	--	--	-		---	
2397C/20809	1	6	31.05	14.18	4	0.00	0.00	-	+	0.051	6	31.05	14.18	4	0.00	0.00	-	+	0.051		6	0.00	0.00	4	0.00	0.00	-	o	1.000	
Habitat Means			17.55	8.80		0.00	0.00		+			17.55	8.80		0.00	0.00		+				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
P15.1C/P15.1	2	3	9.17	9.17	0	--	--	-		---	3	9.17	9.17	0	--	--	-		---		3	0.00	0.00	0	--	--	-		---	
2397C/20809	2	3	68.33	13.33	6	1.25	0.85	-	+	0.000	3	68.33	13.33	6	1.25	0.85	-	+	0.000		3	0.00	0.00	6	0.00	0.00	-	o	1.000	
Habitat Means			38.75	11.25		1.30	0.90		+			38.75	11.25		1.30	0.90		+				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
2397C/20809	3	3	11.67	6.51	3	7.50	6.29	-	+	0.718	3	11.67	6.51	3	7.50	6.29	-	+	0.718		3	0.00	0.00	3	0.00	0.00	-	o	1.000	
Habitat Means			11.70	6.50		7.50	6.30		+			11.70	6.50		7.50	6.30		+				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.153. Algal Percent Cover. Phaeophyta. Prince William Sound. Estuarine. June 1991. Cleared June 1990. (Continued.)

P15.1C/P15.1	1	5	0.00	0.00	0	--	--	-	---	5	0.00	0.00	0	--	--	-	---	5	0.00	0.00	0	--	--	-	---				
2397C/20809	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o		
Fisher's	Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z						
Stouffer's	Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---							
P15.1C/P15.1	2	3	0.00	0.00	0	--	--	-	---	3	0.00	0.00	0	--	--	-	---	3	0.00	0.00	0	--	--	-	---				
2397C/20809	2	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o		
Fisher's	Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z						
Stouffer's	Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---							
P15.1C/P15.1	3	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---				
2397C/20809	3	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o		
Fisher's	Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z						
Stouffer's	Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---							

(a) Dead Fucus plants or stipes without blades.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Myelophycus/Scytosiphon (A) (a)									Morphological Group: Fine Filamentous Browns									Fine Filamentous Browns (AE) (b)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
2397C/20809	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z					
Stouffer's	Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---						
P15.1C/P15.1	2	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---
2397C/20809	2	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	5.83	5.83	6	0.00	0.00	-	+	0.423	3	5.83	5.83	6	0.00	0.00	-	+	0.423
Habitat Means			0.00	0.00		0.00	0.00		o			2.90	2.90		0.00	0.00		+			2.90	2.90		0.00	0.00		+	
Fisher's	Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z					
Stouffer's	Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---						
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	48.33	28.15	3	0.00	0.00	-	+	0.218	3	48.33	28.15	3	0.00	0.00	-	+	0.218
Habitat Means			0.00	0.00		0.00	0.00		o			48.30	28.20		0.00	0.00		+			48.30	28.20		0.00	0.00		+	
Fisher's	Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z					
Stouffer's	Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---						

(a) Genera not separated.

(b) Elachista, Ectocarpus and Pilayella.
x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.153. Algal Percent Cover. Phaeophyta. Prince William Sound. Estuarine. June 1991. Cleared June 1990. (Continued.)

		Morphological Group: Saccate Browns									Leathesia/Colpomenia (A) (a)															
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---									
2397C/20809	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
P15.1C/P15.1	2	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---									
2397C/20809	2	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
2397C/20809	3	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.154. Algal Percent Cover. Rhodophyta. Prince William Sound. Estuarine. June 1991. Cleared June 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variati
SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta									Morphological Group: Bladed Reds									Porphyra sp. (A)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
2397C/20809	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z				
Stouffer's		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---					
P15.1C/P15.1	2	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---
2397C/20809	2	3	0.00	0.00	6	0.83	0.83	-	-	0.363	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.80	0.80		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z				
Stouffer's		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---					
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z				
Stouffer's		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---					

x At least one site pair P-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Coarse Filamentous Reds									Cryptosiphonia woodii (A)									Gloiopeltis furcata (A)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
2397C/20809	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z				
Stouffer's		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---					
P15.1C/P15.1	2	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---
2397C/20809	2	3	0.00	0.00	6	0.83	0.83	-	-	0.363	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.80	0.80		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z				
Stouffer's		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---					
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z				
Stouffer's		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---					

x At least one site pair P-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.154. Algal Percent Cover. Rhodophyta. Prince William Sound. Estuarine. June 1991. Cleared June 1990. (Continued.)

Site Pair	Mvd	Neorhodomela/Rhodomela (P) (a) N	C	SE	N	O	SE	CV	D	P	Odonthalia floccosa (P) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P
2397C/20809	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50% ---			P-value ---		z	Power ---			Power-50% ---			P-value ---		z	Power ---			Power-50% ---			P-value ---		z
Stouffer's		Power ---			Power-50% ---			P-value ---			Power ---			Power-50% ---			P-value ---			Power ---			Power-50% ---			P-value ---		
P15.1C/P15.1	2	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---
2397C/20809	2	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.83	0.83	-	-	0.363	3	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.80	0.80		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50% ---			P-value ---		z	Power ---			Power-50% ---			P-value ---		z	Power ---			Power-50% ---			P-value ---		z
Stouffer's		Power ---			Power-50% ---			P-value ---			Power ---			Power-50% ---			P-value ---			Power ---			Power-50% ---			P-value ---		
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50% ---			P-value ---		z	Power ---			Power-50% ---			P-value ---		z	Power ---			Power-50% ---			P-value ---		z
Stouffer's		Power ---			Power-50% ---			P-value ---			Power ---			Power-50% ---			P-value ---			Power ---			Power-50% ---			P-value ---		

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
2397C/20809	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power ---			Power-50% ---			P-value ---		z	Power ---			Power-50% ---			P-value			Power ---			Power-50% ---			P-value		
Stouffer's		Power ---			Power-50% ---			P-value ---			Power ---			Power-50% ---			P-value			Power ---			Power-50% ---			P-value		
P15.1C/P15.1	2	3	0.00	0.00	0	--	--	-		---																		
2397C/20809	2	3	0.00	0.00	6	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power ---			Power-50% ---			P-value ---		z	Power ---			Power-50% ---			P-value			Power ---			Power-50% ---			P-value		
Stouffer's		Power ---			Power-50% ---			P-value ---			Power ---			Power-50% ---			P-value			Power ---			Power-50% ---			P-value		
P15.1C/P15.1	3	0	--	--	0	--	--	-		---																		
2397C/20809	3	3	0.00	0.00	3	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power ---			Power-50% ---			P-value ---		z	Power ---			Power-50% ---			P-value			Power ---			Power-50% ---			P-value		
Stouffer's		Power ---			Power-50% ---			P-value ---			Power ---			Power-50% ---			P-value			Power ---			Power-50% ---			P-value		

(a) Genera not separated.

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.155. Algal Percent Cover. Invertebrates. Prince William Sound. Estuarine. June 1991. Cleared June 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Balanomorpha								Lottiidae								Mytilus							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
2397C/20809	1	6	0.83	0.53	4	0.00	0.00	-	+	0.175	6	0.42	0.42	4	0.00	0.00	-	+	0.363	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.40	0.25		0.00	0.00		+			0.20	0.20		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	2	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---
2397C/20809	2	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	1.67	1.67	6	0.00	0.00	-	+	0.423
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.85	0.85		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	3	4.17	3.00	3	2.50	2.50	-	+	0.633	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			4.20	3.00		2.50	2.50		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Littorinidae																										
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	--	-	--	--	-	--	9	-	-
P15.1C/P15.1	1	5	0.00	0.00	0	--	--	-		---																		
2397C/20809	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
P15.1C/P15.1	2	3	0.00	0.00	0	--	--	-		---																		
2397C/20809	2	3	0.00	0.00	6	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
P15.1C/P15.1	3	0	--	--	0	--	--	-		---																		
2397C/20809	3	3	0.00	0.00	3	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.156. Algal Percent Cover. Substrates. Prince William Sound. Estuarine. June 1991. Cleared June 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Rock								Mud								Sand							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
2397C/20809	1	6	61.67	17.10	4	100.00	0.00	-	-	0.040	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	
Habitat Means			47.10	18.10		100.00	0.00		-			27.25	9.15		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
P15.1C/P15.1	2	3	0.00	0.00	0	--	--	-		---	3	48.33	28.92	0	--	--	-		---	3	0.00	0.00	0	--	--	-		
2397C/20809	2	3	24.17	13.10	6	97.92	1.00	-	-	0.000	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o	
Habitat Means			12.10	6.55		97.90	1.00		-			24.15	14.45		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		
2397C/20809	3	3	26.67	25.43	3	88.33	6.82	-	-	0.076	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	
Habitat Means			26.70	25.40		88.30	6.80		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Shell Fragments								Water								Zostera/Phyllospadix							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	5	0.50	0.50	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
2397C/20809	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	5.42	5.42	4	0.00	0.00	-	+	0.363	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.25	0.25		0.00	0.00		o			2.70	2.70		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	2	3	0.83	0.83	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---
2397C/20809	2	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.40	0.40		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.156. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Estuarine. June 1991. Cleared June 1990. (Continued.)

		Sand and Mud									Total Substrate																			
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	5	55.00	18.05	0	--	--	-		---		5	87.50	4.33	0	--	--	-		---										
2397C/20809	1	6	5.42	5.42	4	0.00	0.00	-	+	0.363		6	67.08	14.48	4	100.00	0.00	-	-	0.035										
Habitat Means			30.20	11.75		0.00	0.00		+				77.30	9.40		100.00	0.00		-											
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		
P15.1C/P15.1	2	3	49.17	28.88	0	--	--	-		---		3	49.17	28.88	0	--	--	-		---										
2397C/20809	2	3	0.00	0.00	6	0.00	0.00	-	o	1.000		3	24.17	13.10	6	97.92	1.00	-	-	0.000										
Habitat Means			24.60	14.45		0.00	0.00		o				36.70	21.00		97.90	1.00		-											
Fisher's		Power	---		Power-50%		---	P-value		---	yz	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		
P15.1C/P15.1	3	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---										
2397C/20809	3	3	0.00	0.00	3	0.00	0.00	-	o	1.000		3	26.67	25.43	3	88.33	6.82	-	-	0.076										
Habitat Means			0.00	0.00		0.00	0.00		o				26.70	25.40		88.30	6.80		-											
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.157. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Estuarine. July 1991. Cleared August 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Algal Diversity Index (a)									Algal Taxa Richness (b)									Total Algae								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	1	0.00	--	4	0.00	0.00	-	o	---	1	1.00	--	4	0.00	0.00	-	+	---	1	7.50	--	4	0.00	0.00	-	+	---
2397C/20809	1	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.50	0.22	3	0.00	0.00	-	+	0.076	6	34.17	15.85	3	0.00	0.00	-	+	0.080
Habitat Means			0.00	0.00		0.00	0.00		o			0.75	0.22		0.00	0.00		-			20.85	15.90		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	2	1	0.00	--	4	0.00	0.00	-	o	---	1	1.00	--	4	0.25	0.25	-	+	---	1	100.00	--	4	1.88	1.88	-	+	---
2397C/20809	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.50	0.29	5	0.40	0.24	-	+	0.798	4	33.75	23.57	5	7.00	4.36	-	+	0.312
Habitat Means			0.00	0.00		0.00	0.00		o			0.75	0.29		0.33	0.25		+			66.90	23.60		4.45	3.15		+	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	3	0	--	--	1	0.24	--	-		---	0	--	--	1	2.00	--	-		---	0	--	--	1	10.00	--	-		---
2397C/20809	3	4	0.09	0.09	5	0.07	0.07	-	+	0.886	4	1.00	0.71	5	1.00	0.55	-	o	1.000	4	25.62	23.99	5	28.50	16.06	-	-	0.916
Habitat Means			0.09	0.09		0.16	0.07		+			1.00	0.71		1.50	0.55		o			25.60	24.00		19.25	16.10		-	
Fisher's		Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- yz
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Modified Shannon Index.
(b) Taxa richness calculations are explained in the methods.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Invertebrates									Rock									Perennials (P)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	1	2.50	--	4	0.00	0.00	-	+	---	1	25.00	--	4	25.00	25.00	-	o	---	1	7.50	--	4	0.00	0.00	-	+	---
2397C/20809	1	6	1.25	0.85	3	4.17	4.17	-	-	0.588	6	64.58	16.22	3	95.83	4.17	-	-	0.261	6	34.17	15.85	3	0.00	0.00	-	+	0.080
Habitat Means			1.90	0.90		2.10	2.10		-			44.80	16.20		60.40	14.60		-			20.85	15.90		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	2	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	48.75	24.67	-	-	---	1	0.00	--	4	0.00	0.00	-	o	---
2397C/20809	2	4	17.50	16.68	5	0.00	0.00	-	+	0.311	4	48.75	20.98	5	93.00	4.36	-	-	0.055	4	33.75	23.57	5	7.00	4.36	-	+	0.312
Habitat Means			8.75	16.70		0.00	0.00		+			24.40	21.00		70.90	14.55		-			16.90	23.60		3.50	2.20		+	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	3	0	--	--	1	10.00	--	-		---	0	--	--	1	70.00	--	-		---	0	--	--	1	2.50	--	-		---
2397C/20809	3	4	30.00	22.24	5	20.00	10.37	-	+	0.724	4	19.37	19.37	5	51.50	18.00	-	-	0.172	4	10.00	8.42	5	5.50	3.39	-	+	0.720
Habitat Means			30.00	22.20		15.00	10.40		+			19.40	19.40		60.75	18.00		-			10.00	8.40		4.00	3.40		+	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.157. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Estuarine. July 1991. Cleared August 1990. (Continued.)

		Annuals (A)									Ephemerals (AE)															
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---									
2397C/20809	1	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
P15.1C/P15.1	2	1	100.00	--	4	1.88	1.88	-	+	---	1	100.00	--	4	1.88	1.88	-	+	---									
2397C/20809	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000									
Habitat Means			50.00	0.00		0.95	0.95		o			50.00	0.00		0.95	0.95		o										
Fisher's		Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- y	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
P15.1C/P15.1	3	0	--	--	1	7.50	--	-		---	0	--	--	1	7.50	--	-		---									
2397C/20809	3	4	15.63	15.63	5	23.00	16.15	-	-	0.723	4	15.63	15.63	5	23.00	16.15	-	-	0.723									
Habitat Means			15.60	15.60		15.25	16.20		-			15.60	15.60		15.25	16.20		-										
Fisher's		Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- y	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.158. Algal Percent Cover. Chlorophyta. Prince William Sound. Estuarine. July 1991. Cleared August 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group: Bladed Greens								Bladed Greens (AE) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
2397C/20809	1	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	2	1	0.00	--	4	1.88	1.88	-	-	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
2397C/20809	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.95	0.95		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
2397C/20809	3	4	1.25	1.25	5	16.50	16.50	-	-	0.535	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			1.30	1.30		8.25	16.50		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Korrmannia, Monostroma, Ulva and Ulvaria.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Fine Filamentous Greens								Acrosiphonia sp. (A)								Chaetomorpha/Rhizoclonium (A) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
2397C/20809	1	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	2	1	0.00	--	4	1.88	1.88	-	-	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
2397C/20809	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.95	0.95		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
2397C/20809	3	4	1.25	1.25	5	0.00	0.00	-	-	0.391	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			1.30	1.30		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.158. Algal Percent Cover. Chlorophyta. Prince William Sound. Estuarine. July 1991. Cleared August 1990. (Continued.)

		Cladophora sp. (AE)								Morphological Group: Tubular and Saccate Greens								Blidingia/Enteromorpha (AE) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
2397C/20809	1	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	2	1	0.00	--	4	1.88	1.88	-	-	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
2397C/20809	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.95	0.95		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
2397C/20809	3	4	1.25	1.25	5	0.00	0.00	-	+	0.391	4	0.00	0.00	5	16.50	16.50	-	-	0.374	4	0.00	0.00	5	16.50	16.50	-	-	0.374
Habitat Means			1.30	1.30		0.00	0.00		+			0.00	0.00		8.25	16.50		-			0.00	0.00		8.25	16.50		-	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.159. Algal Percent Cover. Phaeophyta. Prince William Sound. Estuarine. July 1991. Cleared August 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

Site Pair	Mvd	Total Phaeophyta								Morphological Group: Bladed Browns									Fucus cottonii (P)								
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	1	7.50	--	4	0.00	0.00	-	+	---	1	7.50	--	4	0.00	0.00	-	+	---	1	0.00	--	4	0.00	0.00	-	o	---
2397C/20809	1	6	34.17	15.85	3	0.00	0.00	-	+	0.080	6	34.17	15.85	3	0.00	0.00	-	+	0.080	6	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			20.85	15.90		0.00	0.00		+			20.85	15.90		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value	---	z		Power	---		Power-50%	---	P-value	---	z		Power	---		Power-50%	---	P-value	---	z	
Stouffer's		Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---		
P15.1C/P15.1	2	1	100.00	--	4	0.00	0.00	-	+	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
2397C/20809	2	4	33.75	23.57	5	7.00	4.36	-	+	0.312	4	33.75	23.57	5	7.00	4.36	-	+	0.312	4	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			66.90	23.60		3.50	2.20		+			16.90	23.60		3.50	2.20		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value	---	z		Power	---		Power-50%	---	P-value	---	z		Power	---		Power-50%	---	P-value	---	z	
Stouffer's		Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---		
P15.1C/P15.1	3	0	--	--	1	10.00	--	-		---	0	--	--	1	2.50	--	-		---	0	--	--	1	0.00	--	-		---
2397C/20809	3	4	24.38	22.74	5	10.50	7.76	-	+	0.603	4	10.00	8.42	5	4.00	2.57	-	-	0.602	4	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			24.40	22.70		10.25	7.80		+			10.00	8.40		3.25	2.60		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value	---	z		Power	---		Power-50%	---	P-value	---	z		Power	---		Power-50%	---	P-value	---	z	
Stouffer's		Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y *Direction of difference* between habitat means is different that direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Total Fucus gardneri (P)								Adult Fucus gardneri (P) (> 2cm)									Juvenile Fucus gardneri (P) (<= 2cm)								
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	1	7.50	--	4	0.00	0.00	-	+	---	1	0.00	--	4	0.00	0.00	-	o	---	1	7.50	--	4	0.00	0.00	-	-	---
2397C/20809	1	6	34.17	15.85	3	0.00	0.00	-	+	0.080	6	34.17	15.85	3	0.00	0.00	-	+	0.080	6	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			20.85	15.90		0.00	0.00		+			17.10	15.90		0.00	0.00		+			3.75	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value	---	z		Power	---		Power-50%	---	P-value	---	z		Power	---		Power-50%	---	P-value	---	z	yz
Stouffer's		Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---		
P15.1C/P15.1	2	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
2397C/20809	2	4	33.75	23.57	5	7.00	4.36	-	+	0.312	4	33.75	23.57	5	7.00	4.36	-	+	0.312	4	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			16.90	23.60		3.50	2.20		+			16.90	23.60		3.50	2.20		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value	---	z		Power	---		Power-50%	---	P-value	---	z		Power	---		Power-50%	---	P-value	---	z	
Stouffer's		*Power*	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---		
P15.1C/P15.1	3	0	--	--	1	2.50	--	-		---	0	--	--	1	2.50	--	-		---	0	--	--	1	0.00	--	-		---
2397C/20809	3	4	10.00	8.42	5	4.00	2.57	-	+	0.602	4	10.00	8.42	5	4.00	2.57	-	+	0.602	4	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			10.00	8.40		3.25	2.60		+			10.00	8.40		3.25	2.60		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value	---	z		Power	---		Power-50%	---	P-value	---	z		Power	---		Power-50%	---	P-value	---	z	
Stouffer's		Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.159. Algal Percent Cover. Phaeophyta. Prince William Sound. Estuarine. July 1991. Cleared August 1990. (Continued.)

Site Pair	Mvd	Fucus Stipes (P) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Coarse Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Dictyosiphon sp. (A) N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
2397C/20809	1	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	2	1	0.00	--	4	2.50	2.50	-	-	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
2397C/20809	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		1.25	1.25		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
2397C/20809	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Dead Fucus plants or stipes without blades.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Fine Filamentous Browns (AE) (b) N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
2397C/20809	1	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	2	1	0.00	--	4	0.00	0.00	-	o	---	1	100.00	--	4	0.00	0.00	-	+	---	1	100.00	--	4	0.00	0.00	-	+	---
2397C/20809	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			50.00	0.00		0.00	0.00		o			50.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- yz
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	3	0	--	--	1	0.00	--	-		---	0	--	--	1	7.50	--	-		---	0	--	--	1	7.50	--	-		---
2397C/20809	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	14.37	14.37	5	6.50	6.50	-	+	0.700	4	14.37	14.37	5	6.50	6.50	-	+	0.700
Habitat Means			0.00	0.00		0.00	0.00		o			14.40	14.40		7.00	6.50		+			14.40	14.40		7.00	6.50		+	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Genera not separated.

(b) Elachista, Ectocarpus And Pilayella.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.159. Algal Percent Cover. Phaeophyta. Prince William Sound. Estuarine. July 1991. Cleared August 1990. (Continued.)

		Morphological Group: Saccate Browns								Leathesia/Colpomenia (A) (a)																
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	1	0.00	--	4	0.00	0.00	-	o	---		1	0.00	--	4	0.00	0.00	-	o	---										
2397C/20809	1	6	0.00	0.00	3	0.00	0.00	-	o	1.000		6	0.00	0.00	3	0.00	0.00	-	o	1.000										
Habitat Means			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o											
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		
P15.1C/P15.1	2	1	0.00	--	4	0.00	0.00	-	o	---		1	0.00	--	4	0.00	0.00	-	o	---										
2397C/20809	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000		4	0.00	0.00	5	0.00	0.00	-	o	1.000										
Habitat Means			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o											
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		
P15.1C/P15.1	3	0	--	--	1	0.00	--	-		---		0	--	--	1	0.00	--	-		---										
2397C/20809	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000		4	0.00	0.00	5	0.00	0.00	-	o	1.000										
Habitat Means			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o											
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.160. Algal Percent Cover. Rhodophyta. Prince William Sound. Estuarine. July 1991. Cleared August 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group: Bladed Reds								Porphyra sp. (A)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
2397C/20809	1	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value	---	z
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value	---	
P15.1C/P15.1	2	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
2397C/20809	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value	---	z
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value	---	
P15.1C/P15.1	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
2397C/20809	3	4	0.00	0.00	5	1.50	1.50	-	-	0.374	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.75	1.50		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value	---	z
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value	---	

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: *Coarse Filamentous Reds*								Cryptosiphonia woodii (A)								Gloiopeltis furcata (A)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
2397C/20809	1	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value	---	z
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value	---	
P15.1C/P15.1	2	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
2397C/20809	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value	---	z
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value	---	
P15.1C/P15.1	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
2397C/20809	3	4	0.00	0.00	5	1.50	1.50	-	-	0.374	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.75	1.50		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value	---	z
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value	---	

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.160. Algal Percent Cover. Rhodophyta. Prince William Sound. Estuarine. July 1991. Cleared August 1990. (Continued.)

Site Pair	Mvd	Neorhodomela/Rhodomela (P) (a) N	C	SE	N	O	SE	CV	D	P	Odonthalia floccosa (P) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
2397C/20809	1	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	2	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
2397C/20809	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
2397C/20809	3	4	0.00	0.00	5	1.50	1.50	-	-	0.374	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.75	1.50		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	1	0.00	--	4	0.00	0.00	-	o	---																		
2397C/20809	1	6	0.00	0.00	3	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
P15.1C/P15.1	2	1	0.00	--	4	0.00	0.00	-	o	---																		
2397C/20809	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
P15.1C/P15.1	3	0	--	--	1	0.00	--	-		---																		
2397C/20809	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
[illegible]		Power			Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.161. Algal Percent Cover. Invertebrates. Prince William Sound. Estuarine. July 1991. Cleared August 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Balanomorpha								Lottiidae								Mytilus							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	1	2.50	--	4	0.00	0.00	-	+	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
2397C/20809	1	6	0.83	0.83	3	2.50	2.50	-	-	0.524	6	0.42	0.42	3	0.83	0.83	-	-	0.626	6	0.00	0.00	3	0.83	0.83	-	-	0.423
Habitat Means			1.65	0.80		1.25	1.25		-			0.20	0.40		0.40	0.40		-			0.00	0.00		0.40	0.40		-	
Fisher's		Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	2	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
2397C/20809	2	4	17.50	16.68	5	0.00	0.00	-	+	0.311	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			8.75	16.70		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	3	0	--	--	1	2.50	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	7.50	--	-		---
2397C/20809	3	4	25.62	18.01	5	15.50	7.76	-	+	0.718	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	4.37	4.37	5	4.50	4.50	-	-	0.953
Habitat Means			25.60	18.00		9.00	7.80		-			0.00	0.00		0.00	0.00		o			4.40	4.40		6.00	4.50		-	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Littorinidae																									
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	1	0.00	--	4	0.00	0.00	-	o	---																	
2397C/20809	1	6	0.00	0.00	3	0.00	0.00	-	o	1.000																	
Habitat Means			0.00	0.00		0.00	0.00		o																		
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
P15.1C/P15.1	2	1	0.00	--	4	0.00	0.00	-	o	---																	
2397C/20809	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000																	
Habitat Means			0.00	0.00		0.00	0.00		o																		
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
P15.1C/P15.1	3	0	--	--	1	0.00	--	-		---																	
2397C/20809	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000																	
Habitat Means			0.00	0.00		0.00	0.00		o																		
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.162. Algal Percent Cover. Substrates. Prince William Sound. Estuarine. July 1991. Cleared August 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Rock								Mud								Sand							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	1	25.00	--	4	25.00	25.00	-	o	---	1	47.50	--	4	75.00	25.00	-	-	---	1	0.00	--	4	0.00	0.00	-	o	---
2397C/20809	1	6	64.58	16.22	3	95.83	4.17	-	-	0.261	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			44.80	16.20		60.40	14.60		-			23.75	0.00		37.50	12.50		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	2	1	0.00	--	4	48.75	24.67	-	-	---	1	0.00	--	4	25.00	25.00	-	-	---	1	0.00	--	4	0.00	0.00	-	o	---
2397C/20809	2	4	48.75	20.98	5	93.00	4.36	-	-	0.055	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			24.40	21.00		70.90	14.55		-			0.00	0.00		12.50	12.50		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	3	0	--	--	1	70.00	--	-		---	0	--	--	1	10.00	--	-		---	0	--	--	1	0.00	--	-		---
2397C/20809	3	4	19.37	19.37	5	51.50	18.00	-	-	0.172	4	20.00	20.00	5	0.00	0.00	-	+	0.391	4	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			19.40	19.40		60.75	18.00		-			20.00	20.00		5.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Shell Fragments								Water								Zostera/Phyllospadix							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
2397C/20809	1	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	2	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	21.88	21.88	-	-	---	1	0.00	--	4	0.00	0.00	-	o	---
2397C/20809	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		10.95	10.95		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
2397C/20809	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	5.00	5.00	5	0.00	0.00	-	-	0.391
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			5.00	5.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

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Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	1	47.50	--	4	75.00	25.00	-	-	---	1	72.50	--	4	100.00	0.00	-	-	---									
2397C/20809	1	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	64.58	16.22	3	95.83	4.17	-	-	0.261									
Habitat Means			23.75	0.00		37.50	12.50		o			68.55	16.20		97.90	2.10		-										
Fisher's		Power	---		Power-50%		---	P-value		---	yz Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
P15.1C/P15.1	2	1	0.00	--	4	46.88	27.18	-	-	---	1	0.00	--	4	95.63	2.58	-	-	---									
2397C/20809	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	48.75	20.98	5	93.00	4.36	-	-	0.055									
Habitat Means			0.00	0.00		23.45	13.60		o			24.40	21.00		94.30	3.50		-										
Fisher's		Power	---		Power-50%		---	P-value		---	yz Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
P15.1C/P15.1	3	0	--	--	1	10.00	--	-		---	0	--	--	1	80.00	--	-		---									
2397C/20809	3	4	20.00	20.00	5	0.00	0.00	-	+	0.391	4	39.38	22.74	5	51.50	18.00	-	-	0.530									
Habitat Means			20.00	20.00		5.00	0.00		+			39.40	22.70		65.75	18.00		-										
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.163. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Exposed Rocky. June 1991. Cleared June 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Algal Diversity Index (a)								Algal Taxa Richness (b)								Total Algae							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	5	0.06	0.06	5	0.00	0.00	-	+	0.374	5	0.40	0.40	5	0.60	0.24	-	-	0.681	5	1.50	1.50	5	8.50	4.78	-	-	0.211
1642C/833	1	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.10	0.06	4	0.00	0.00	-	+	0.175	6	1.17	0.31	4	0.25	0.25	-	+	0.067	6	30.00	13.39	4	1.88	1.88	-	+	0.077
Habitat Means			0.05	0.04		0.00	0.00		+			0.52	0.24		0.28	0.17		+			10.50	4.97		3.47	2.23		+	
Fisher's		Power	0.145		Power-50%		0.134	P-value		0.142	Power	0.378		Power-50%		0.246	P-value		0.172	Power	0.042		Power-50%		0.035	P-value		0.229
Stouffer's		Power	---		Power-50%		---	P-value		0.086	Power	---		Power-50%		---	P-value		0.076	Power	0.016		Power-50%		0.050	P-value		0.124
19C/19	2	3	0.10	0.10	3	0.02	0.02	-	+	0.467	3	0.67	0.67	3	1.00	0.58	-	-	0.725	3	8.33	8.33	3	31.67	29.20	-	-	0.494
1642C/833	2	6	0.04	0.04	4	0.15	0.15	-	-	0.391	6	0.83	0.31	4	1.25	1.25	-	-	0.705	6	11.67	5.46	4	6.88	6.88	-	+	0.438
4537C/979	2	3	0.16	0.08	4	0.00	0.00	-	+	0.184	3	2.00	0.58	4	0.25	0.25	-	+	0.027	3	68.33	19.60	4	0.63	0.63	-	+	0.008
Habitat Means			0.10	0.07		0.06	0.06		+			1.17	0.52		0.83	0.69		-			29.43	11.13		13.07	12.23		+	
Fisher's		Power	0.354		Power-50%		0.366	P-value		0.229	Power	0.034		Power-50%		0.824	P-value		0.657xy	Power	---		Power-50%		---	P-value		0.023
Stouffer's		Power	0.333		Power-50%		0.451	P-value		0.186	Power	0.002		Power-50%		0.865	P-value		0.943	Power	---		Power-50%		---	P-value		0.008
19C/19	3	1	0.00	--	5	0.23	0.12	-	-	---	1	0.00	--	5	2.20	0.86	-	-	---	1	0.00	--	5	47.00	22.10	-	-	---
1642C/833	3	5	0.02	0.02	3	0.27	0.09	-	-	0.021	5	1.00	0.32	3	2.33	0.33	-	-	0.034	5	19.50	9.03	3	30.83	18.56	-	-	0.502
4537C/979	3	3	0.31	0.19	4	0.10	0.10	-	-	0.333	3	2.67	1.20	4	1.25	0.63	-	+	0.309	3	55.00	16.07	4	20.00	15.91	-	+	0.155
Habitat Means			0.11	0.10		0.20	0.10		-			1.22	0.76		1.93	0.61		-			24.83	12.55		32.60	18.87		-	
Fisher's		Power	---		Power-50%		---	P-value		0.030	Power	---		Power-50%		---	P-value		0.075	Power	0.171		Power-50%		0.087	P-value		0.223 y
Stouffer's		Power	0.191		Power-50%		0.023	P-value		0.338	Power	0.063		Power-50%		0.029	P-value		0.432	Power	0.133		Power-50%		0.025	P-value		0.183

(a) Modified Shannon index.
(b) Taxa richness calculations are explained in the methods.

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Invertebrates								Rock								Perennials (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	5	0.50	0.50	5	0.00	0.00	-	+	0.374	5	98.00	1.46	5	91.50	4.78	-	+	0.309	5	1.00	1.00	5	0.50	0.50	-	+	0.815
1642C/833	1	5	0.00	0.00	4	2.50	2.50	-	-	0.391	5	99.50	0.50	4	97.50	2.50	-	+	0.559	5	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.42	0.42	4	1.88	1.20	-	-	0.249	6	69.58	13.76	4	96.25	1.61	-	-	0.150	6	30.00	13.39	4	0.00	0.00	-	+	0.030
Habitat Means			0.30	0.30		1.47	1.23		-			89.03	5.27		95.10	2.97		+			10.33	4.80		0.17	0.17		+	
Fisher's		Power	0.077		Power-50%		---	P-value		0.250	Power	0.019		Power-50%		0.879	P-value		0.375 y	Power	---		Power-50%		---	P-value		0.071
Stouffer's		Power	0.054		Power-50%		---	P-value		0.126	Power	0.004		Power-50%		0.913	P-value		0.746	Power	---		Power-50%		---	P-value		0.030
19C/19	2	3	18.33	5.83	3	29.17	27.93	-	-	0.974	3	73.33	13.41	3	39.17	29.17	-	+	0.404	3	4.17	4.17	3	29.17	29.17	-	-	0.538
1642C/833	2	6	3.75	3.28	4	30.00	23.80	-	-	0.225	6	84.58	7.23	4	61.88	21.68	-	+	0.289	6	10.00	5.66	4	4.37	4.37	-	+	0.410
4537C/979	2	3	0.00	0.00	4	4.37	4.37	-	-	0.391	3	31.67	19.60	4	95.00	4.21	-	-	0.017	3	66.67	21.13	4	0.63	0.63	-	+	0.010
Habitat Means			7.37	3.03		21.20	18.70		-			63.20	13.40		65.37	18.37		+			26.97	10.33		11.40	11.40		+	
Fisher's		Power	0.065		Power-50%		0.103	P-value		0.170	Power	0.226		Power-50%		0.898	P-value		0.313xy	Power	---		Power-50%		---	P-value		0.026
Stouffer's		Power	---		Power-50%		---	P-value		0.095	Power	0.062		Power-50%		0.904	P-value		0.898	Power	---		Power-50%		---	P-value		0.008
19C/19	3	1	62.50	--	5	11.00	8.57	-	+	---	1	37.50	--	5	42.00	18.73	-	-	---	1	0.00	--	5	17.50	11.43	-	-	---
1642C/833	3	5	7.50	4.74	3	57.50	28.98	-	-	0.108	5	73.00	13.59	3	11.67	10.44	-	+	0.021	5	16.00	9.83	3	3.33	1.67	-	+	0.611
4537C/979	3	3	0.00	0.00	4	3.75	3.75	-	-	0.391	3	33.33	18.33	4	76.25	14.74	-	-	0.108	3	43.33	21.28	4	10.63	6.64	-	+	0.124
Habitat Means			23.33	2.35		24.10	13.80		-			47.93	15.95		43.33	14.60		+			19.77	15.55		10.47	6.57		+	
Fisher's		Power	---		Power-50%		---	P-value		0.059	Power	---		Power-50%		---	P-value		0.056	Power	---		Power-50%		---	P-value		0.094
Stouffer's		Power	---		Power-50%		---	P-value		0.062	Power	0.044		Power-50%		0.607	P-value		0.599	Power	---		Power-50%		---	P-value		0.056

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.163. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Exposed Rocky. June 1991. Cleared June 1990. (Continued.)

		Annuals (A)								Ephemerals (AE)																
Site Pair	Mwd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	3	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000									
1642C/833	1	5	0.00	0.00	4	0.00	0.00	-	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000									
4537C/979	1	6	0.00	0.00	4	1.88	1.88	-	-	0.391																		
Habitat Means			0.17	0.17		3.30	2.30		-			0.00	0.00		2.67	1.67		-										
Fisher's		Power	0.164		Power-50%		---	P-value		0.175	Power	0.009		Power-50%		---	P-value		0.269	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.153		Power-50%		---	P-value		0.151	Power	0.009		Power-50%		---	P-value		0.363	Power	---		Power-50%		---	P-value		
19C/19	2	3	4.17	4.17	3	2.50	1.44	-	+	0.959	3	0.00	0.00	3	0.83	0.83	-	-	0.423									
1642C/833	2	6	1.67	1.67	4	2.50	2.50	-	-	0.779	6	0.00	0.00	4	0.00	0.00	-	o	1.000									
4537C/979	2	3	1.67	1.67	4	0.00	0.00	-	+	0.423	3	0.00	0.00	4	0.00	0.00	-	o	1.000									
Habitat Means			2.53	2.53		1.67	1.30		+			0.00	0.00		0.27	0.27		-										
Fisher's		Power	0.040		Power-50%		---	P-value		0.473	Power	---		Power-50%		---	P-value		0.437	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.066		Power-50%		---	P-value		0.291	Power	---		Power-50%		---	P-value		0.417	Power	---		Power-50%		---	P-value		
19C/19	3	1	0.00	--	5	29.50	16.15	-	-	---	1	0.00	--	5	27.50	16.49	-	-	---									
1642C/833	3	5	3.50	1.87	3	27.50	17.56	-	-	0.067	5	0.00	0.00	3	21.67	20.43	-	-	0.332									
4537C/979	3	3	11.67	11.67	4	9.38	9.38	-	+	0.867	3	9.17	9.17	4	9.38	9.38	-	-	0.941									
Habitat Means			5.07	6.80		22.13	14.40		-			3.07	4.60		19.53	15.43		-										
Fisher's		Power	---		Power-50%		---	P-value		0.094	Power	0.026		Power-50%		---	P-value		0.277	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.374		Power-50%		0.001	P-value		0.222	Power	0.046		Power-50%		---	P-value		0.293	Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.164. Algal Percent Cover. Chlorophyta. Prince William Sound. Exposed Rocky. June 1991. Cleared June 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group: Bladed Greens								Bladed Greens (AE) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	5	0.00	0.00	5	8.00	4.96	-	-	0.179	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		2.67	1.67		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.011		Power-50%		---	P-value		0.269	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.011		Power-50%		---	P-value		0.363	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
1642C/833	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	3	1	0.00	--	5	19.00	17.19	-	-	---	1	0.00	--	5	19.00	17.19	-	-	---	1	0.00	--	5	19.00	17.19	-	-	---
1642C/833	3	5	0.00	0.00	3	0.83	0.83	-	-	0.423	5	0.00	0.00	3	0.83	0.83	-	-	0.423	5	0.00	0.00	3	0.83	0.83	-	-	0.423
4537C/979	3	3	6.67	6.67	4	8.12	8.12	-	-	0.990	3	6.67	6.67	4	8.12	8.12	-	-	0.990	3	6.67	6.67	4	8.12	8.12	-	-	0.990
Habitat Means			2.23	3.35		9.30	8.70		-			2.23	3.35		9.30	8.70		-			2.23	3.35		9.30	8.70		-	
Fisher's		Power	0.003		Power-50%		---	P-value		0.341	Power	0.005		Power-50%		---	P-value		0.341	Power	0.004		Power-50%		---	P-value		0.341
Stouffer's		Power	0.012		Power-50%		---	P-value		0.341	Power	0.011		Power-50%		---	P-value		0.341	Power	0.011		Power-50%		---	P-value		0.341

(a) Kornmannia, Monostroma, Ulva and Ulvaria.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Fine Filamentous Greens								Acrosiphonia sp. (A)								Chaetomorpha/Rhizoclonium (A) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	5	0.00	0.00	5	8.00	4.96	-	-	0.179	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		2.67	1.67		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.012		Power-50%		---	P-value		0.269	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.012		Power-50%		---	P-value		0.363	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
1642C/833	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	3	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---
1642C/833	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000
4537C/979	3	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.164. Algal Percent Cover. Chlorophyta. Prince William Sound. Exposed Rocky. June 1991. Cleared June 1990. (Continued.)

Site Pair	Mvd	Cladophora sp. (AE) N	C	SE	N	O	SE	CV	D	P	Ulothrix sp. (AE) N	C	SE	N	O	SE	CV	D	P	Urospora sp. (AE) N	C	SE	N	O	SE	CV	D	P
19C/19	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	8.00	4.96	-	-	0.179
1642C/833	1	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		2.67	1.67		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	0.011		Power-50%		---	P-value		0.269
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	0.011		Power-50%		---	P-value		0.363
19C/19	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
1642C/833	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	3	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---
1642C/833	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000
4537C/979	3	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
[illegible]		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Morphological Group: Tubular and Saccate Greens N	C	SE	N	O	SE	CV	D	P	Blidingia/Enteromorpha (AE) (a) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000									
1642C/833	1	5	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000									
4537C/979	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
19C/19	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000									
1642C/833	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000									
4537C/979	2	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
19C/19	3	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---									
1642C/833	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000									
4537C/979	3	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.165. Algal Percent Cover. Phaeophyta. Prince William Sound. Exposed Rocky. June 1991. Cleared June 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group: Bladed Browns								*Alaria sp. (A)*							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
19C/19	1	5	1.50	1.50	5	0.50	0.50	-	+	0.720	5	1.00	1.00	5	0.50	0.50	-	+	0.815	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	23.33	8.43	4	1.88	1.88	-	+	0.052	6	23.33	8.43	4	0.00	0.00	-	+	0.016	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			8.27	3.30		0.80	0.80		+			8.10	3.13		0.17	0.17		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.097	Power	---		Power-50%		---	P-value		0.045	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.042	Power	---		Power-50%		---	P-value		0.019	Power	---		Power-50%		---	P-value		0.500
19C/19	2	3	8.33	8.33	3	30.00	30.00	-	-	0.621	3	4.17	4.17	3	29.17	29.17	-	-	0.538	3	0.00	0.00	3	0.00	0.00	-	o	1.000
1642C/833	2	6	10.00	5.66	4	1.88	1.88	-	+	0.251	6	10.00	5.66	4	0.63	0.63	-	+	0.164	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	3	49.17	25.67	4	0.00	0.00	-	-	0.138	3	48.33	25.99	4	0.00	0.00	-	+	0.143	3	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			22.50	13.23		10.63	10.63		+			20.83	11.97		9.93	9.93		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.312		Power-50%		0.373	P-value		0.115	Power	---		Power-50%		---	P-value		0.091	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.048	Power	---		Power-50%		---	P-value		0.041	Power	---		Power-50%		---	P-value		0.500
19C/19	3	1	0.00	--	5	23.00	13.93	-	-	---	1	0.00	--	5	14.50	8.49	-	-	---	1	0.00	--	5	0.00	0.00	-	o	---
1642C/833	3	5	7.50	7.50	3	1.67	1.67	-	+	0.769	5	7.50	7.50	3	1.67	1.67	-	+	0.769	5	0.00	0.00	3	0.00	0.00	-	o	1.000
4537C/979	3	3	13.33	8.82	4	11.88	7.86	-	+	0.940	3	6.67	3.33	4	10.63	6.64	-	-	0.751	3	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			6.93	8.15		12.20	7.83		+			4.73	5.40		8.93	5.60		-			0.00	0.00		0.00	0.00		o	
Fisher's		*Power*	*0.042*		*Power-50%*		0.040	P-value		0.490 y	Power	0.026		Power-50%		0.320	P-value		0.570	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	0.062		Power-50%		0.014	P-value		0.417	Power	0.031		Power-50%		0.149	P-value		0.449	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total *Fucus gardneri (P)*								Adult Fucus gardneri (P) (> 2cm)								Juvenile Fucus gardneri (P) (<= 2cm)							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
19C/19	1	5	1.00	1.00	5	0.50	0.50	-	+	0.815	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	1.00	1.00	5	0.50	0.50	-	+	0.815
1642C/833	1	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	23.33	8.43	4	0.00	0.00	-	+	0.016	6	22.08	8.40	4	0.00	0.00	-	+	0.017	6	1.25	0.85	4	0.00	0.00	-	-	0.183
Habitat Means			8.10	3.13		0.17	0.17		+			7.37	2.80		0.00	0.00		+			0.77	0.63		0.17	0.17		+	
Fisher's		Power	---		Power-50%		---	P-value		0.045	Power	---		Power-50%		---	P-value		0.056	Power	0.037		Power-50%		0.041	P-value		0.240
Stouffer's		Power	---		Power-50%		---	P-value		0.019	Power	---		Power-50%		---	P-value		0.023	Power	0.065		Power-50%		0.093	P-value		0.119
19C/19	2	3	4.17	4.17	3	29.17	29.17	-	-	0.538	3	4.17	4.17	3	29.17	29.17	-	-	0.538	3	0.00	0.00	3	0.00	0.00	-	o	1.000
1642C/833	2	6	10.00	5.66	4	0.63	0.63	-	+	0.164	6	6.67	3.14	4	0.63	0.63	-	+	0.144	6	3.33	3.33	4	0.00	0.00	-	-	0.363
4537C/979	2	3	48.33	25.99	4	0.00	0.00	-	+	0.143	3	46.67	26.71	4	0.00	0.00	-	+	0.153	3	1.67	1.67	4	0.00	0.00	-	+	0.423
Habitat Means			20.83	11.97		9.93	9.93		+			19.20	11.33		9.93	9.93		+			1.67	1.67		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.091	Power	---		Power-50%		---	P-value		0.088	Power	---		Power-50%		---	P-value		0.245
Stouffer's		Power	---		Power-50%		---	P-value		0.041	Power	---		Power-50%		---	P-value		0.041	Power	---		Power-50%		---	P-value		0.134
19C/19	3	1	0.00	--	5	14.50	8.49	-	-	---	1	0.00	--	5	14.50	8.49	-	-	---	1	0.00	--	5	0.00	0.00	-	o	---
1642C/833	3	5	7.50	7.50	3	1.67	1.67	-	+	0.769	5	6.50	6.50	3	1.67	1.67	-	+	0.796	5	1.00	1.00	3	0.00	0.00	-	+	0.374
4537C/979	3	3	6.67	3.33	4	10.63	6.64	-	-	0.751	3	6.67	3.33	4	10.63	6.64	-	-	0.751	3	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			4.73	5.40		8.93	5.60		-			4.40	4.90		8.93	5.60		-			0.33	0.50		0.00	0.00		+	
Fisher's		*Power*	*0.026*		*Power-50%*		0.317	P-value		0.570	Power	0.024		Power-50%		0.309	P-value		0.562	Power	---		Power-50%		---	P-value		0.315
Stouffer's		Power	0.028		Power-50%		0.149	P-value		0.449	Power	0.030		Power-50%		0.149	P-value		0.442	Power	---		Power-50%		---	P-value		0.329

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.165. Algal Percent Cover. Phaeophyta. Prince William Sound. Exposed Rocky. June 1991. Cleared June 1990. (Continued.)

		Fucus Stipes (P) (a)									Morphological Group: Coarse Filamentous Browns									Analipus japonicus (P)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.50	0.50	5	0.00	0.00	-	+	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	1.88	1.88	-	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.17	0.17		0.63	0.63		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.522 y	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.687	Power	---		Power-50%		---	P-value		0.500
19C/19	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	4.17	4.17	3	0.00	0.00	-	+	0.423	3	0.00	0.00	3	0.00	0.00	-	o	1.000
1642C/833	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.83	0.83	4	0.00	0.00	-	+	0.423	3	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			1.67	1.67		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.269	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.189	Power	---		Power-50%		---	P-value		0.500
19C/19	3	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---
1642C/833	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000
4537C/979	3	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	2.50	2.50	4	0.00	0.00	-	+	0.423	3	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.83	1.25		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.343	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.243	Power	---		Power-50%		---	P-value		0.500

(a) Dead Fucus plants or stipes without blades.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Dictyosiphon sp. (A)									Myelophycus/Scytosiphon (A) (a)									Morphological Group: Fine Filamentous Browns								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.50	0.50	5	0.00	0.00	-	+	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	1.88	1.88	-	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.17	0.17		0.63	0.63		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.522 y	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.687	Power	---		Power-50%		---	P-value		0.500
19C/19	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	4.17	4.17	3	0.00	0.00	-	+	0.423	3	0.00	0.00	3	0.83	0.83	-	-	0.423
1642C/833	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.83	0.83	4	0.00	0.00	-	-	0.423	3	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			1.67	1.67		0.00	0.00		-			0.00	0.00		0.27	0.27		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.269	Power	---		Power-50%		---	P-value		0.437
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.189	Power	---		Power-50%		---	P-value		0.417
19C/19	3	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	8.50	5.89	-	-	---
1642C/833	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000
4537C/979	3	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	2.50	2.50	4	0.00	0.00	-	+	0.423	3	2.50	2.50	4	1.25	1.25	-	-	0.738
Habitat Means			0.00	0.00		0.00	0.00		o			0.83	1.25		0.00	0.00		+			0.83	1.25		3.27	2.40		-	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.343	Power	0.011		Power-50%		---	P-value		0.496 y
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.243	Power	0.008		Power-50%		---	P-value		0.386

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.165. Algal Percent Cover. Phaeophyta. Prince William Sound. Exposed Rocky. June 1991. Cleared June 1990. (Continued.)

Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
			Fine Filamentous Browns (AE) (b)								**Morphological Group: Saccate Browns**									**Leathesia/Colpomenia (A) (a)**								
19C/19	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	3	0.00	0.00	3	0.83	0.83	-	-	0.423	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
1642C/833	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	1.25	1.25	-	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.27	0.27		-			0.00	0.00		0.43	0.43		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.437	Power	---		Power-50%		---	P-value		0.419	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.417	Power	---		Power-50%		---	P-value		0.341	Power	---		Power-50%		---	P-value		0.500
19C/19	3	1	0.00	--	5	8.50	5.89	-	-	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---
1642C/833	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000
4537C/979	3	3	2.50	2.50	4	1.25	1.25	-	+	0.738	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.83	1.25		3.27	2.40		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.010		Power-50%		---	P-value		0.496 y	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	0.006		Power-50%		---	P-value		0.386	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
			Soranthera ulvoidea (A)								**Morphological Group: Crustose Browns**									**Ralfsia/Petroderma (P) (a)**								
19C/19	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
1642C/833	2	6	0.00	0.00	4	1.25	1.25	-	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.43	0.43		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.419	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.341	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	3	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---
1642C/833	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000
4537C/979	3	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	1.67	1.67	4	0.00	0.00	-	-	0.423	3	1.67	1.67	4	0.00	0.00	-	+	0.423
Habitat Means			0.00	0.00		0.00	0.00		o			0.57	0.85		0.00	0.00		+			0.57	0.85		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.343	Power	---		Power-50%		---	P-value		0.343
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.243	Power	---		Power-50%		---	P-value		0.243

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.166. Algal Percent Cover. Rhodophyta. Prince William Sound. Exposed Rocky. June 1991. Cleared June 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group: Bladed Reds								Bangia sp. (AE)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	6.67	6.18	4	0.00	0.00	-	+	0.262	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			2.23	2.07		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.336	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.173	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	3	0.00	0.00	3	1.67	1.67	-	-	0.423	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
1642C/833	2	6	1.67	1.67	4	5.00	5.00	-	-	0.598	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	3	19.17	17.93	4	0.63	0.63	-	+	0.241	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			6.97	6.53		2.43	2.43		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.002		Power-50%		0.010	P-value		0.448 y	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.010		Power-50%		0.012	P-value		0.699	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	3	1	0.00	--	5	5.00	3.16	-	-	---	1	0.00	--	5	2.00	2.00	-	-	---	1	0.00	--	5	0.00	0.00	-	o	---
1642C/833	3	5	12.00	7.80	3	28.33	17.22	-	-	0.292	5	0.00	0.00	3	21.67	20.43	-	-	0.332	5	0.00	0.00	3	20.83	20.83	-	-	0.423
4537C/979	3	3	35.00	25.66	4	0.00	0.00	-	+	0.251	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			15.67	16.75		11.10	6.80		-			0.00	0.00		7.90	7.47		-			0.00	0.00		6.93	6.93		-	
Fisher's		Power	0.025		Power-50%		0.036	P-value		0.346	Power	0.008		Power-50%		---	P-value		0.290	Power	---		Power-50%		---	P-value		0.343
Stouffer's		Power	0.012		Power-50%		0.008	P-value		0.318	Power	0.005		Power-50%		---	P-value		0.315	Power	---		Power-50%		---	P-value		0.345

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Gigartinaceae Group (P) (a)								Palmaria spp. (A)								Phycodrys riggii (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
1642C/833	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	3	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---
1642C/833	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000
4537C/979	3	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.166. Algal Percent Cover. Rhodophyta. Prince William Sound. Exposed Rocky. June 1991. Cleared June 1990. (Continued.)

Site Pair	Mvd	Porphyra sp. (A) N	C	SE	N	O	SE	CV	D	P	Tokidadendron kurilensis (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Coarse Filamentous Reds N	C	SE	N	O	SE	CV	D	P
19C/19	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	6.67	6.18	4	0.00	0.00	-	+	0.262
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			2.23	2.07		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	0.000		Power-50%		0.001	P-value		0.336
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.000	P-value		0.173
19C/19	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	1.67	1.67	-	-	0.423
1642C/833	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	1.67	1.67	4	5.00	5.00	-	-	0.598
4537C/979	2	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	19.17	17.93	4	0.63	0.63	-	+	0.241
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			6.97	6.53		2.43	2.43		+	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	0.003		Power-50%		0.012	P-value		0.448 y
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	0.008		Power-50%		0.019	P-value		0.699
19C/19	3	1	0.00	--	5	2.00	2.00	-	-	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	3.00	3.00	-	-	---
1642C/833	3	5	0.00	0.00	3	0.83	0.83	-	-	0.423	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	12.00	7.80	3	6.67	4.41	-	+	0.689
4537C/979	3	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	35.00	25.66	4	0.00	0.00	-	+	0.251
Habitat Means			0.00	0.00		0.93	0.93		-			0.00	0.00		0.00	0.00		o			15.67	16.75		3.23	2.47		-	
Fisher's		Power	---		Power-50%		---	P-value		0.343	Power	---		Power-50%		---	P-value		0.597	Power	0.105		Power-50%		0.028	P-value		0.179
Stouffer's		Power	---		Power-50%		---	P-value		0.345	Power	---		Power-50%		---	P-value		0.500	Power	0.161		Power-50%		0.004	P-value		0.116

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Cryptosiphonia woodii (A) N	C	SE	N	O	SE	CV	D	P	Endocladia muricata (P) N	C	SE	N	O	SE	CV	D	P	Gloiopeltis furcata (A) N	C	SE	N	O	SE	CV	D	P
19C/19	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	1.67	1.67	-	-	0.423
1642C/833	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	3.13	3.13	-	-	0.391	6	1.67	1.67	4	1.25	1.25	-	+	0.974
4537C/979	2	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.83	0.83	4	0.00	0.00	-	+	0.423
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		1.03	1.03		-			0.83	0.83		1.00	1.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.419	Power	---		Power-50%		---	P-value		0.541 y
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.341	Power	---		Power-50%		---	P-value		0.316
19C/19	3	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---
1642C/833	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	1.67	1.67	-	-	0.423	5	3.50	1.87	3	5.00	2.89	-	-	0.719
4537C/979	3	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.57	0.57		-			1.17	0.95		1.67	0.97		-	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.343	Power	0.062		Power-50%		0.000	P-value		0.488
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.345	Power	0.042		Power-50%		0.000	P-value		0.429

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.166. Algal Percent Cover. Rhodophyta. Prince William Sound. Exposed Rocky. June 1991. Cleared June 1990. (Continued.)

Site Pair	Mvd	Neorhodomela/Rhodomela (P) (a)									Odonthalia floccosa (P)									Ptilota/Neoptilota (P) (b)								
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	6.25	6.25	4	0.00	0.00	-	+	0.363	6	0.42	0.42	4	0.00	0.00	-	·	0.363	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			2.10	2.10		0.00	0.00		+			0.13	0.13		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.223	Power	---		Power-50%		---	P-value		0.223	Power	---		Power-50%		---	P-value		0.500
19C/19	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
1642C/833	2	6	0.00	0.00	4	0.63	0.63	-	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	18.33	18.33	4	0.63	0.63	-	-	0.361	3	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.20	0.20		-			6.10	6.10		0.20	0.20		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.419	Power	---		Power-50%		---	P-value		0.402	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.341	Power	---		Power-50%		---	P-value		0.222	Power	---		Power-50%		---	P-value		0.500
19C/19	3	1	0.00	--	5	2.00	2.00	-	-	---	1	0.00	--	5	1.00	1.00	-	-	---	1	0.00	--	5	0.00	0.00	-	o	---
1642C/833	3	5	8.50	8.50	3	0.00	0.00	-	+	0.374	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000
4537C/979	3	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	35.00	25.66	4	0.00	0.00	-	-	0.251	3	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			2.83	4.25		0.67	0.67		·			11.67	12.85		0.33	0.33		·			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.315	Power	0.029		Power-50%		0.000	P-value		0.236	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.329	Power	0.016		Power-50%		0.000	P-value		0.160	Power	---		Power-50%		---	P-value		0.500

(a) Genera not separated.

(b) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Morphological Group: Saccate Reds									Halosaccion glandiforme (A)									Morphological Group: Fine Filamentous Reds								
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
1642C/833	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	3	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---
1642C/833	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000
4537C/979	3	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.166. Algal Percent Cover. Rhodophyta. Prince William Sound. Exposed Rocky. June 1991. Cleared June 1990. (Continued.)

Site Pair	Mvd	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Crustose Reds N	C	SE	N	O	SE	CV	D	P	Crustose Coralline Algae (P) N	C	SE	N	O	SE	CV	D	P
19C/19	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50%	---	P-value			0.655	Power ---			Power-50%	---	P-value			0.655	Power ---			Power-50%	---	P-value			0.655
Stouffer's		Power ---			Power-50%	---	P-value			0.500	Power ---			Power-50%	---	P-value			0.500	Power ---			Power-50%	---	P-value			0.500
19C/19	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
1642C/833	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50%	---	P-value			0.655	Power ---			Power-50%	---	P-value			0.655	Power ---			Power-50%	---	P-value			0.655
Stouffer's		Power ---			Power-50%	---	P-value			0.500	Power ---			Power-50%	---	P-value			0.500	Power ---			Power-50%	---	P-value			0.500
19C/19	3	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---
1642C/833	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000
4537C/979	3	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50%	---	P-value			0.597	Power ---			Power-50%	---	P-value			0.597	Power ---			Power-50%	---	P-value			0.597
Stouffer's		Power ---			Power-50%	---	P-value			0.500	Power ---			Power-50%	---	P-value			0.500	Power ---			Power-50%	---	P-value			0.500

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Hildenbrandia sp. (P) N	C	SE	N	O	SE	CV	D	P	*Petrocelis (P)* N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000									
1642C/833	1	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000									
4537C/979	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power ---			Power-50%	---	P-value			0.655	Power ---			Power-50%	---	P-value			0.655	Power ---			Power-50%	---	P-value			
Stouffer's		Power ---			Power-50%	---	P-value			0.500	Power ---			Power-50%	---	P-value			0.500	Power ---			Power-50%	---	P-value			
19C/19	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000									
1642C/833	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000									
4537C/979	2	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power ---			Power-50%	---	P-value			0.655	Power ---			Power-50%	---	P-value			0.655	Power ---			Power-50%	---	P-value			
Stouffer's		Power ---			Power-50%	---	P-value			0.500	Power ---			Power-50%	---	P-value			0.500	Power ---			Power-50%	---	P-value			
19C/19	3	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---									
1642C/833	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000									
4537C/979	3	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power ---			Power-50%	---	P-value			0.597	Power ---			Power-50%	---	P-value			0.597	Power ---			Power-50%	---	P-value			
Stouffer's		Power ---			Power-50%	---	P-value			0.500	Power ---			Power-50%	---	P-value			0.500	Power ---			Power-50%	---	P-value			

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.167. Algal Percent Cover. Invertebrates. Prince William Sound. Exposed Rocky. June 1991. Cleared June 1990.
Results of statistical differences between means of control and oiled site pairs. MVD - meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes - insufficient data.

		Actiniidae								Balanomorpha								Lottiidae							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	2.50	2.50	-	-	0.391	5	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	1.25	1.25	-	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		1.27	1.27		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.244	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.129	Power	---		Power-50%		---	P-value		0.500
19C/19	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	11.67	3.63	3	28.33	28.33	-	-	0.903	3	0.83	0.83	3	0.83	0.83	-	o	1.000
1642C/833	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	3.33	3.33	4	28.75	22.58	-	-	0.200	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	4.37	4.37	-	-	0.391	3	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			5.00	2.30		20.50	18.43		-			0.27	0.27		0.27	0.27		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.127		Power-50%		0.231	P-value		0.149	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.086	Power	---		Power-50%		---	P-value		0.500
19C/19	3	1	0.00	--	5	0.00	0.00	-	o	---	1	62.50	--	5	9.50	8.89	-	+	---	1	0.00	--	5	0.50	0.50	-	-	---
1642C/833	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	5.50	4.36	3	57.50	28.98	-	-	0.088	5	0.00	0.00	3	0.00	0.00	-	o	1.000
4537C/979	3	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	3.75	3.75	-	-	0.391	3	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			22.67	2.20		23.60	13.90		-			0.00	0.00		0.17	0.17		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.050	Power	---		Power-50%		---	P-value		0.597 y
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.056	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Mytilus								Nucella lamellosa								Littorinidae							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.50	0.50	5	0.00	0.00	-	-	0.374
1642C/833	1	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.42	0.42	4	0.63	0.63	-	-	0.779
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.30	0.30		0.20	0.20		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.454
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.501
19C/19	2	3	5.83	1.67	3	0.00	0.00	-	+	0.027	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
1642C/833	2	6	0.42	0.42	4	1.25	1.25	-	-	0.605	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			2.07	0.70		0.43	0.43		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.097	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.109		Power-50%		0.315	P-value		0.371	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	3	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	1.00	1.00	-	-	---
1642C/833	3	5	1.00	1.00	3	0.00	0.00	-	+	0.374	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	1.00	1.00	3	0.00	0.00	-	+	0.374
4537C/979	3	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.33	0.50		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.33	0.50		0.33	0.33		+	
Fisher's		Power	---		Power-50%		---	P-value		0.315	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.315 y
Stouffer's		Power	---		Power-50%		---	P-value		0.329	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.329

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.167. Algal Percent Cover. Invertebrates. Prince William Sound. Exposed Rocky. June 1991. Cleared June 1990. (Continued.)

		Mollusca																							
Site Pair	Mod	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	3	0.00	0.00	5	0.00	0.00	-	o	1.000																		
1642C/833	1	5	0.00	0.00	4	0.00	0.00	-	o	1.000																		
4537C/979	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
19C/19	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000																		
1642C/833	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000																		
4537C/979	2	3	0.00	0.00	4	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
19C/19	3	1	0.00	--	5	0.00	0.00	-	o	---																		
1642C/833	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000																		
4537C/979	3	3	0.00	0.00	4	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.168. Algal Percent Cover. Substrates. Prince William Sound. Exposed Rocky. June 1991. Cleared June 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Rock								Mud								Sand							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
19C/19	1	5	98.00	1.46	5	91.50	4.78	-	+	0.309	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	5	99.50	0.50	4	97.50	2.50	-	+	0.559	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	69.58	13.76	4	96.25	1.61	-	-	0.150	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			89.03	5.27		95.10	2.97		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.018		Power-50%		0.870	P-value		0.375 y	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.003		Power-50%		0.909	P-value		0.746	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	3	73.33	13.41	3	39.17	29.17	-	+	0.404	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
1642C/833	2	6	84.58	7.23	4	61.88	21.68	-	+	0.289	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	3	31.67	19.60	4	95.00	4.21	-	-	0.017	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			63.20	13.40		65.37	18.37		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.223		Power-50%		0.900	P-value		0.313xy	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.060		Power-50%		0.892	P-value		0.898	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	3	1	37.50	--	5	42.00	18.73	-	-	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---
1642C/833	3	5	73.00	13.59	3	11.67	10.44	-	+	0.021	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000
4537C/979	3	3	33.33	18.33	4	76.25	14.74	-	-	0.108	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			47.93	15.95		43.33	14.60		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.056	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	0.046		Power-50%		0.595	P-value		0.599	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Shell Fragments								Water								Zostera/Phyllospadix							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
19C/19	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
1642C/833	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	1.25	1.25	-	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.43	0.43		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.419	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.341	Power	---		Power-50%		---	P-value		0.500
19C/19	3	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---
1642C/833	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000
4537C/979	3	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	11.67	11.67	4	0.00	0.00	-	+	0.423	3	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			3.90	5.85		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.343	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.243	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.168. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Exposed Rocky. June 1991. Cleared June 1990. (Continued.)

		Sand and Mud								Total Substrate																
it Pai	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	98.00	1.46	5	91.50	4.78	-	+	0.309									
1642C/833	1	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	99.50	0.50	4	97.50	2.50	-	+	0.559									
4537C/979	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	69.58	13.76	4	96.25	1.61	-	-	0.150									
Habitat Means			0.00	0.00		0.00	0.00		o			89.03	5.27		95.10	2.97		+										
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.021		Power-50%		0.857	P-value		0.375 y	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.004		Power-50%		0.905	P-value		0.746	Power	---		Power-50%		---	P-value		
19C/19	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	73.33	13.41	3	39.17	29.17	-	+	0.404									
1642C/833	2	6	0.00	0.00	4	1.25	1.25	-	-	0.391	6	84.58	7.23	4	63.13	21.83	-	+	0.309									
4537C/979	2	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	31.67	19.60	4	95.00	4.21	-	-	0.017									
Habitat Means			0.00	0.00		0.43	0.43		-			63.20	13.40		65.77	18.40		+										
Fisher's		Power	---		Power-50%		---	P-value		0.419	Power	0.228		Power-50%		0.887	P-value		0.325xy	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.341	Power	0.056		Power-50%		0.902	P-value		0.901	Power	---		Power-50%		---	P-value		
19C/19	3	1	0.00	--	5	0.00	0.00	-	o	---	1	37.50	--	5	42.00	18.73	-	-	---									
1642C/833	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	73.00	13.59	3	11.67	10.44	-	+	0.021									
4537C/979	3	3	11.67	11.67	4	0.00	0.00	-	+	0.423	3	45.00	16.07	4	76.25	14.74	-	-	0.186									
Habitat Means			3.90	5.85		0.00	0.00		+			51.83	14.85		43.33	14.60		+										
Fisher's		Power	---		Power-50%		---	P-value		0.343	Power	---		Power-50%		---	P-value		0.054	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.243	Power	0.102		Power-50%		0.627	P-value		0.501	Power	---		Power-50%		---	P-value		

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.169. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Exposed Rocky. July 1991. Cleared August 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Algal Diversity Index (a)								Algal Taxa Richness (b)								Total Algae							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	4	0.07	0.07	5	0.18	0.12	-	-	0.486	4	0.75	0.48	5	1.40	0.98	-	-	0.601	4	3.75	2.17	5	17.00	14.08	-	-	0.578
1642C/833	1	6	0.01	0.01	4	0.07	0.07	-	-	0.468	6	0.33	0.33	4	0.75	0.48	-	-	0.480	6	10.42	10.42	4	10.00	7.07	-	+	0.747
4537C/979	1	5	0.05	0.05	5	0.00	0.00	-	-	0.374	5	0.80	0.37	5	0.00	0.00	-	-	0.099	5	25.50	16.21	5	0.00	0.00	-	+	0.128
Habitat Means			0.05	0.05		0.08	0.06		-			0.63	0.40		0.72	0.49		-			13.23	9.60		9.00	7.07		+	
Fisher's		Power	0.036		Power-50%		---	P-value	0.407		Power	0.031		Power-50%		0.418	P-value	0.499x		Power	0.053		Power-50%		0.295	P-value	0.227	
Stouffer's		Power	0.027		Power-50%		---	P-value	0.585		Power	0.003		Power-50%		0.503	P-value	0.818		Power	---		Power-50%		---	P-value	0.099	
19C/19	2	2	0.00	0.00	5	0.24	0.11	-	-	0.083	2	0.50	0.50	5	2.40	0.93	-	-	0.281	2	2.50	2.50	5	35.00	16.81	-	-	0.280
1642C/833	2	3	0.03	0.03	2	0.12	0.12	-	-	0.412	3	1.33	0.33	2	1.50	0.50	-	-	0.789	3	30.83	9.61	2	10.00	0.00	-	+	0.127
4537C/979	2	6	0.13	0.05	5	0.00	0.00	-	+	0.061	6	1.67	0.21	5	0.20	0.20	-	+	0.001	6	58.75	14.17	5	2.00	2.00	-	+	0.004
Habitat Means			0.05	0.03		0.12	0.08		-			1.17	0.35		1.37	0.54		-			30.70	8.77		15.67	6.27		+	
Fisher's		Power	0.139		Power-50%		0.076	P-value	0.144x		Power	0.114		Power-50%		0.993	P-value	0.448x		Power	---		Power-50%		---	P-value	0.005	
Stouffer's		Power	0.015		Power-50%		0.092	P-value	0.766		Power	0.005		Power-50%		0.944	P-value	0.992		Power	---		Power-50%		---	P-value	0.002	
19C/19	3	0	--	--	4	0.24	0.16	-		---	0	--	--	4	2.00	1.41	-		---	0	--	--	4	48.13	27.83	-		---
1642C/833	3	4	0.24	0.14	2	0.18	0.18	-	+	0.814	4	2.00	0.91	2	2.50	2.50	-	-	0.820	4	57.50	21.29	2	50.00	50.00	-	-	0.947
4537C/979	3	3	0.42	0.10	5	0.25	0.15	-	+	0.490	3	3.33	1.33	5	2.60	1.29	-	+	0.723	3	30.00	5.20	5	49.50	17.95	-	-	0.625
Habitat Means			0.32	0.12		0.22	0.16		+			2.67	1.12		2.37	1.73		+			43.75	13.25		49.20	31.93		-	
Fisher's		Power	0.163		Power-50%		0.727	P-value	0.329		Power	0.160		Power-50%		0.136	P-value	0.543		Power	0.095		Power-50%		0.491	P-value	0.462	
Stouffer's		Power	0.167		Power-50%		0.209	P-value	0.237		Power	0.161		Power-50%		0.026	P-value	0.423		Power	0.090		Power-50%		0.104	P-value	0.348	

(a) Modified Shannon Index.
(b) Taxa richness calculations are explained in the methods.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Invertebrates								Rock								Perennials (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	4	4.37	4.37	5	2.00	2.00	-	+	0.727	4	91.88	5.90	5	81.00	14.07	-	+	0.701	4	3.75	2.17	5	13.00	11.22	-	-	0.673
1642C/833	1	6	4.17	4.17	4	3.13	3.13	-	+	0.982	6	85.42	14.58	4	86.88	10.07	-	-	0.848	6	10.00	10.00	4	5.63	3.29	-	-	0.911
4537C/979	1	5	0.50	0.50	5	0.00	0.00	-	+	0.374	5	74.00	16.69	5	100.00	0.00	-	-	0.131	5	25.50	16.21	5	0.00	0.00	-	-	0.128
Habitat Means			3.03	3.03		1.70	1.70		+			83.77	12.40		89.30	8.07		-			13.10	9.47		6.20	4.83		-	
Fisher's		Power	---		Power-50%		---	P-value	0.340		Power	0.187		Power-50%		0.626	P-value	0.236		Power	0.075		Power-50%		0.342	P-value	0.246	
Stouffer's		Power	---		Power-50%		---	P-value	0.199		Power	0.153		Power-50%		0.695	P-value	0.104		Power	0.087		Power-50%		0.451	P-value	0.111	
19C/19	2	2	7.50	7.50	5	1.00	1.00	-	+	0.288	2	90.00	10.00	5	64.00	16.31	-	+	0.326	2	2.50	2.50	5	24.50	11.74	-	-	0.286
1642C/833	2	3	15.00	15.00	2	5.00	5.00	-	+	0.819	3	54.17	24.59	2	85.00	5.00	-	-	0.393	3	30.00	8.78	2	1.25	1.25	-	-	0.036
4537C/979	2	6	4.17	2.39	5	1.00	1.00	-	+	0.290	6	37.08	12.19	5	97.00	3.00	-	-	0.001	6	58.75	14.17	5	0.00	0.00	-	-	0.005
Habitat Means			8.90	8.30		2.33	2.33		+			60.43	15.60		82.00	8.10		-			30.43	8.50		8.60	4.33		-	
Fisher's		Power	0.275		Power-50%		0.301	P-value	0.147		Power	---		Power-50%		---	P-value	0.005		Power	---		Power-50%		---	P-value	0.002	
Stouffer's		Power	0.326		Power-50%		0.387	P-value	0.102		Power	---		Power-50%		---	P-value	0.002		Power	---		Power-50%		---	P-value	0.001	
19C/19	3	0	--	--	4	37.50	23.94	-		---	0	--	--	4	14.37	12.01	-		---	0	--	--	4	29.37	17.57	-		---
1642C/833	3	4	20.00	20.00	2	0.00	0.00	-	+	0.391	4	22.50	9.30	2	50.00	50.00	-	-	0.564	4	37.50	16.89	2	41.25	41.25	-	-	0.967
4537C/979	3	3	0.00	0.00	5	8.50	8.50	-	-	0.374	3	70.00	5.20	5	37.00	14.50	-	+	0.160	3	23.33	6.82	5	37.00	16.85	-	-	0.751
Habitat Means			10.00	10.00		15.33	10.80		-			46.25	7.25		33.80	25.50		+			30.40	11.85		35.90	25.27		-	
Fisher's		Power	0.003		Power-50%		---	P-value	0.435		Power	0.262		Power-50%		0.081	P-value	0.222		Power	0.079		Power-50%		0.190	P-value	0.491	
Stouffer's		Power	0.001		Power-50%		---	P-value	0.365		Power	0.243		Power-50%		0.010	P-value	0.176		Power	0.086		Power-50%		0.038	P-value	0.284	

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.169. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Exposed Rocky. July 1991. Cleared August 1990. (Continued.)

		Annuals (A)								Ephemerals (AE)															
		N	C	SE	N	C	SE	CV	D	P	N	C	SE	N	C	SE	CV	D	P	N	C	SE	N	C	SE	CV D P
1642C/833	1	6	0.42	0.42	4	4.37	4.37	-	-	0.399	6	0.00	0.00	4	0.00	0.00	-	o	1.000						
4537C/979	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000						
Habitat Means			0.13	0.13		2.80	2.43		-			0.00	0.00		0.33	0.33		-							
Fisher's		Power	0.067		Power-50%		---	P-value		0.161	Power	---		Power-50%		---	P-value		0.409	Power	---		Power-50%		---	P-value
Stouffer's		Power	0.107		Power-50%		---	P-value		0.230	Power	---		Power-50%		---	P-value		0.408	Power	---		Power-50%		---	P-value
19C/19	2	2	0.00	0.00	5	10.50	5.15	-	-	0.082	2	0.00	0.00	5	5.50	4.36	-	-	0.215						
1642C/833	2	3	0.83	0.83	2	8.75	1.25	-	-	0.039	3	0.00	0.00	2	0.00	0.00	-	o	1.000						
4537C/979	2	6	0.00	0.00	5	2.00	2.00	-	-	0.374	6	0.00	0.00	5	0.00	0.00	-	o	1.000						
Habitat Means			0.27	0.27		7.10	2.83		-			0.00	0.00		1.83	1.47		-							
Fisher's		Power	---		Power-50%		---	P-value		0.007	Power	0.001		Power-50%		---	P-value		0.300	Power	---		Power-50%		---	P-value
Stouffer's		Power	---		Power-50%		---	P-value		0.014	Power	0.000		Power-50%		---	P-value		0.373	Power	---		Power-50%		---	P-value
19C/19	3	0	--	--	4	18.75	11.25	-		---	0	--	--	4	7.50	7.50	-		---						
1642C/833	3	4	20.00	12.62	2	8.75	8.75	-	+	0.727	4	20.00	12.62	2	3.75	3.75	-	+	0.559						
4537C/979	3	3	6.67	3.33	5	12.50	8.44	-	-	0.927	3	4.17	3.00	5	4.00	2.57	-	+	0.805						
Habitat Means			13.35	7.95		13.37	9.50		+			12.10	7.80		5.10	4.63		-							
Fisher's		Power	0.050		Power-50%		0.179	P-value		0.514 y	Power	0.072		Power-50%		0.076	P-value		0.358	Power	---		Power-50%		---	P-value
Stouffer's		Power	0.043		Power-50%		0.044	P-value		0.462	Power	0.089		Power-50%		0.014	P-value		0.307	Power	---		Power-50%		---	P-value

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.170. Algal Percent Cover. Chlorophyta. Prince William Sound. Exposed Rocky. July 1991. Cleared August 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group: Bladed Greens								Bladed Greens (AE) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	4	0.00	0.00	5	1.00	1.00	-	-	0.374	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.33	0.33	-				0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.409	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.408	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	2	0.00	0.00	5	5.50	4.36	-	-	0.215	2	0.00	0.00	5	5.50	4.36	-	-	0.215	2	0.00	0.00	5	5.50	4.36	-	-	0.215
1642C/833	2	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		1.83	1.47	-				0.00	0.00		1.83	1.47		-			0.00	0.00		1.83	1.47		-	
Fisher's		Power	0.002		Power-50%		---	P-value		0.300	Power	0.001		Power-50%		---	P-value		0.300	Power	0.002		Power-50%		---	P-value		0.300
Stouffer's		Power	0.000		Power-50%		---	P-value		0.373	Power	0.000		Power-50%		---	P-value		0.373	Power	0.000		Power-50%		---	P-value		0.373
19C/19	3	0	--	--	4	7.50	7.50	-		---	0	--	--	4	7.50	7.50	-		---	0	--	--	4	7.50	7.50	-		---
1642C/833	3	4	15.63	12.52	2	3.75	3.75	-	+	0.655	4	1.25	1.25	2	1.25	1.25	-	o	0.825	4	1.25	1.25	2	1.25	1.25	-	o	0.825
4537C/979	3	3	4.17	3.00	5	8.00	6.29	-	-	0.927	3	4.17	3.00	5	4.00	2.57	-	+	0.805	3	4.17	3.00	5	4.00	2.57	-	+	0.805
Habitat Means			9.90	7.75		6.43	5.87		+			2.75	2.15		4.27	3.80		+			2.75	2.15		4.27	3.80		+	
Fisher's		Power	0.035		Power-50%		0.040	P-value		0.481	Power	0.024		Power-50%		0.050	P-value		0.577 y	Power	0.024		Power-50%		0.067	P-value		0.577 y
Stouffer's		Power	0.052		Power-50%		0.015	P-value		0.444	Power	0.029		Power-50%		0.022	P-value		0.458	Power	0.029		Power-50%		0.025	P-value		0.458

(a) Kornmannia, Monostroma, Ulva and Ulvaria.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Fine Filamentous Greens								Acrosiphonia sp. (A)								Chaetomorpha/Rhizoclonium (A) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	4	0.00	0.00	5	1.00	1.00	-	-	0.374	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.33	0.33	-				0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.409	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.408	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	2	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	3	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---
1642C/833	3	4	14.37	12.76	2	2.50	2.50	-	-	0.646	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	3	3	0.00	0.00	5	4.00	4.00	-	-	0.374	3	0.00	0.00	5	4.00	4.00	-	-	0.374	3	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			7.20	6.40		2.17	2.17	-				0.00	0.00		1.33	1.33		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.016		Power-50%		0.000	P-value		0.388 y	Power	---		Power-50%		---	P-value		0.315	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	0.033		Power-50%		0.000	P-value		0.293	Power	---		Power-50%		---	P-value		0.220	Power	---		Power-50%		---	P-value		0.500

(a) Genera not separated.
x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.170. Algal Percent Cover. Chlorophyta. Prince William Sound. Exposed Rocky. July 1991. Cleared August 1990. (Continued.)

Site Pair	Mvd	Cladophora sp. (AE) N	C	SE	N	O	SE	CV	D	P	Ulothrix sp. (AE) N	C	SE	N	O	SE	CV	D	P	Urospora sp. (AE) N	C	SE	N	O	SE	CV	D	P
19C/19	1	4	0.00	0.00	5	1.00	1.00	-	-	0.374	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.33	0.33		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.409	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.408	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	2	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	3	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---
1642C/833	3	4	14.37	12.76	2	2.50	2.50	-	+	0.646	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	3	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			7.20	6.40		0.83	0.83		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.001		Power-50%		0.000	P-value		0.456	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	0.001		Power-50%		0.000	P-value		0.410	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Morphological Group: Tubular and Saccate Greens N	C	SE	N	O	SE	CV	D	P	Blidingia/Enteromorpha (AE) (a) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000									
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000									
4537C/979	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
19C/19	2	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000									
1642C/833	2	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000									
4537C/979	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
19C/19	3	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---									
1642C/833	3	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	0.00	0.00	2	0.00	0.00	-	o	1.000									
4537C/979	3	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.171. Algal Percent Cover. Phaeophyta. Prince William Sound. Exposed Rocky. July 1991. Cleared August 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group: Bladed Browns								Alaria sp. (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	4	3.13	1.88	5	6.50	6.50	-	-	0.978	4	3.13	1.88	5	4.00	4.00	-	-	0.797	4	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	6	10.00	10.00	4	5.63	3.29	-	+	0.911	6	10.00	10.00	4	5.63	3.29	-	+	0.911	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	5	20.00	11.07	5	0.00	0.00	-	+	0.098	5	20.00	11.07	5	0.00	0.00	-	+	0.098	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			11.03	7.67		4.03	3.27		+			11.03	7.67		3.20	2.43		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.241		Power-50%		0.353	P-value		0.176	Power	0.245		Power-50%		0.340	P-value		0.196	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.076	Power	---		Power-50%		---	P-value		0.085	Power	---		Power-50%		---	P-value		0.500
19C/19	2	2	2.50	2.50	5	23.50	10.59	-	-	0.267	2	2.50	2.50	5	21.50	10.71	-	-	0.298	2	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	2	3	30.00	8.78	2	1.25	1.25	-	+	0.036	3	30.00	8.78	2	1.25	1.25	-	+	0.036	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	2	6	20.42	11.34	5	0.00	0.00	-	+	0.042	6	20.42	11.34	5	0.00	0.00	-	+	0.042	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			17.63	7.53		8.27	3.97		+			17.63	7.53		7.60	4.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.014	Power	---		Power-50%		---	P-value		0.013	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.008	Power	---		Power-50%		---	P-value		0.007	Power	---		Power-50%		---	P-value		0.500
19C/19	3	0	--	--	4	23.75	16.50	-		---	0	--	--	4	23.75	16.50	-		---	0	--	--	4	0.00	0.00	-		---
1642C/833	3	4	36.25	16.97	2	38.75	38.75	-	-	0.938	4	31.88	17.00	2	38.75	38.75	-	-	0.989	4	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	3	3	17.50	4.33	5	30.00	15.99	-	-	0.884	3	12.50	6.29	5	30.00	15.99	-	-	0.604	3	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			26.90	10.65		30.87	23.77		-			22.20	11.65		30.87	23.77		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.071		Power-50%		0.296	P-value		0.534	Power	0.119		Power-50%		0.125	P-value		0.433	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	0.083		Power-50%		0.076	P-value		0.435	Power	0.132		Power-50%		0.033	P-value		0.324	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Fucus gardneri (P)								Adult Fucus gardneri (P) (> 2cm)								Juvenile Fucus gardneri (P) (<= 2cm)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	4	3.13	1.88	5	4.00	4.00	-	-	0.797	4	3.13	1.88	5	2.50	2.50	-	+	0.624	4	0.00	0.00	5	1.50	1.50	-	-	0.374
1642C/833	1	6	10.00	10.00	4	5.63	3.29	-	+	0.911	6	10.00	10.00	4	5.63	3.29	-	+	0.911	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	5	20.00	11.07	5	0.00	0.00	-	+	0.098	5	12.00	12.00	5	0.00	0.00	-	+	0.374	5	8.00	5.15	5	0.00	0.00	-	-	0.183
Habitat Means			11.03	7.67		3.20	2.43		+			8.37	7.97		2.70	1.93		+			2.67	1.73		0.50	0.50		-	
Fisher's		Power	0.262		Power-50%		0.341	P-value		0.196	Power	0.073		Power-50%		0.229	P-value		0.298	Power	0.009		Power-50%		0.010	P-value		0.361
Stouffer's		Power	---		Power-50%		---	P-value		0.085	Power	0.111		Power-50%		0.310	P-value		0.177	Power	0.004		Power-50%		0.005	P-value		0.188
19C/19	2	2	2.50	2.50	5	21.50	10.71	-	-	0.298	2	2.50	2.50	5	21.50	10.71	-	-	0.298	2	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	2	3	30.00	8.78	2	1.25	1.25	-	+	0.036	3	30.00	8.78	2	1.25	1.25	-	+	0.036	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	2	6	20.42	11.34	5	0.00	0.00	-	+	0.042	6	20.42	11.34	5	0.00	0.00	-	+	0.042	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			17.63	7.53		7.60	4.00		+			17.63	7.53		7.60	4.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.013	Power	---		Power-50%		---	P-value		0.013	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.007	Power	---		Power-50%		---	P-value		0.007	Power	---		Power-50%		---	P-value		0.500
19C/19	3	0	--	--	4	23.75	16.50	-		---	0	--	--	4	23.75	16.50	-		---	0	--	--	4	0.00	0.00	-		---
1642C/833	3	4	31.88	17.00	2	38.75	38.75	-	-	0.989	4	31.25	16.41	2	38.75	38.75	-	-	0.976	4	0.63	0.63	2	0.00	0.00	-	+	0.391
4537C/979	3	3	12.50	6.29	5	30.00	15.99	-	-	0.604	3	12.50	6.29	5	30.00	15.99	-	-	0.604	3	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			22.20	11.65		30.87	23.77		-			21.90	11.35		30.87	23.77		-			0.30	0.30		0.00	0.00		+	
Fisher's		Power	0.108		Power-50%		0.136	P-value		0.433	Power	0.122		Power-50%		0.134	P-value		0.430	Power	---		Power-50%		---	P-value		0.325
Stouffer's		Power	0.121		Power-50%		0.037	P-value		0.324	Power	0.136		Power-50%		0.034	P-value		0.321	Power	---		Power-50%		---	P-value		0.335

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.171. Algal Percent Cover. Phaeophyta. Prince William Sound. Exposed Rocky. July 1991. Cleared August 1990. (Continued.)

Site Pair	Mvd	Fucus Stipes (P) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Coarse Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Analipus japonicus (P) N	C	SE	N	O	SE	CV	D	P
19C/19	1	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	2.50	2.50	-	-	0.374	4	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.83	0.83		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.409	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.408	Power	---		Power-50%		---	P-value		0.500
19C/19	2	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	2	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	3	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---
1642C/833	3	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	3	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

(a) Dead Fucus plants or stipes without blades.

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Dictyosiphon sp. (A) N	C	SE	N	O	SE	CV	D	P	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P
19C/19	1	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	2.50	2.50	-	-	0.374	4	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.83	0.83		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.409	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.408	Power	---		Power-50%		---	P-value		0.500
19C/19	2	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	2	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	3	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---
1642C/833	3	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	4.37	4.37	2	0.00	0.00	-	+	0.391
4537C/979	3	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			2.20	2.20		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.325
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.335

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.171. Algal Percent Cover. Phaeophyta. Prince William Sound. Exposed Rocky. July 1991. Cleared August 1990. (Continued.)

Site Pair	Mvd	Fine Filamentous Browns (AE) (b) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Saccate Browns N	C	SE	N	O	SE	CV	D	P	Leathesia/Colpomenia (A) (a) N	C	SE	N	O	SE	CV	D	P
19C/19	1	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	2.00	2.00	-	-	0.374	2	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	2	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.67	0.67		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.409	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.408	Power	---		Power-50%		---	P-value		0.500
19C/19	3	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---
1642C/833	3	4	4.37	4.37	2	0.00	0.00	-	+	0.391	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	3	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	1.67	1.67	5	0.00	0.00	-	+	0.423	3	1.67	1.67	5	0.00	0.00	-	+	0.423
Habitat Means			2.20	2.20		0.00	0.00		+			0.85	0.85		0.00	0.00		+			0.85	0.85		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.325	Power	---		Power-50%		---	P-value		0.343	Power	---		Power-50%		---	P-value		0.343
Stouffer's		Power	---		Power-50%		---	P-value		0.335	Power	---		Power-50%		---	P-value		0.243	Power	---		Power-50%		---	P-value		0.243

(b) Blachista, Ectocarpus and Pilayella.

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall) tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Soranthera ulvoidea (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Crustose Browns N	C	SE	N	O	SE	CV	D	P	Ralfsia/Petroderma (P) (a) N	C	SE	N	O	SE	CV	D	P
19C/19	1	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	2	0.00	0.00	5	2.00	2.00	-	-	0.374	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	2	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.67	0.67		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.409	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.408	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	3	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---
1642C/833	3	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	3	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	3.33	3.33	5	0.00	0.00	-	+	0.423	3	3.33	3.33	5	0.00	0.00	-	+	0.423
Habitat Means			0.00	0.00		0.00	0.00		o			1.65	1.65		0.00	0.00		+			1.65	1.65		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.343	Power	---		Power-50%		---	P-value		0.343
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.243	Power	---		Power-50%		---	P-value		0.243

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.172. Algal Percent Cover. Rhodophyta. Prince William Sound. Exposed Rocky. July 1991. Cleared August 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group: Bladed Reds								Bangia sp. (AE)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	4	0.63	0.63	5	9.50	7.76	-	-	0.361	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	6	0.42	0.42	4	4.37	4.37	-	-	0.399	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	5	5.50	5.50	5	0.00	0.00	-	+	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			2.17	2.17		4.63	4.07		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.018		Power-50%		---	P-value		0.315	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.018		Power-50%		---	P-value		0.541	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	2	0.00	0.00	5	6.00	4.37	-	-	0.200	2	0.00	0.00	5	0.50	0.50	-	-	0.374	2	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	2	3	0.83	0.83	2	8.75	1.25	-	-	0.039	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	2	6	38.33	15.73	5	2.00	2.00	-	-	0.046	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			13.03	5.50		5.60	2.57		-			0.00	0.00		0.17	0.17		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.051xy	Power	---		Power-50%		---	P-value		0.409	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.031		Power-50%		0.061	P-value		0.638	Power	---		Power-50%		---	P-value		0.408	Power	---		Power-50%		---	P-value		0.500
19C/19	3	0	--	--	4	16.88	9.86	-		---	0	--	--	4	5.62	5.63	-		---	0	--	--	4	0.00	0.00	-		---
1642C/833	3	4	5.62	5.63	2	7.50	7.50	-	-	0.751	4	0.00	0.00	2	5.00	5.00	-	-	0.500	4	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	3	3	8.33	4.41	5	11.50	7.31	-	-	0.947	3	1.67	1.67	5	4.50	2.78	-	-	0.639	3	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			6.95	5.00		11.97	8.23		-			0.85	0.85		5.03	4.47		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.046		Power-50%		0.236	P-value		0.485	Power	0.208		Power-50%		---	P-value		0.282	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	0.051		Power-50%		0.093	P-value		0.415	Power	0.259		Power-50%		---	P-value		0.229	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Gigartinaceae Group (P) (a)								Palmaria spp. (A)								Phycodrys riggii (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.50	0.50	-	-	0.374	2	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	2	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.17	0.17		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.409	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.408	Power	---		Power-50%		---	P-value		0.500
19C/19	3	0	--	--	4	1.88	1.88	-		---	0	--	--	4	3.75	3.75	-		---	0	--	--	4	0.00	0.00	-		---
1642C/833	3	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	0.00	0.00	2	5.00	5.00	-	-	0.500	4	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	3	3	1.67	1.67	5	4.00	2.57	-	-	0.675	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.85	0.85		1.97	1.50		-			0.00	0.00		2.93	2.93		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.025		Power-50%		---	P-value		0.469	Power	---		Power-50%		---	P-value		0.385	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	0.009		Power-50%		---	P-value		0.358	Power	---		Power-50%		---	P-value		0.369	Power	---		Power-50%		---	P-value		0.500

(a) Chondrus, Iridaea, Mastocarpus and Rhodoglossum.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.172. Algal Percent Cover. Rhodophyta. Prince William Sound. Exposed Rocky. July 1991. Cleared August 1990. (Continued.)

Site Pair	Mvd	Porphyra sp. (A) N	C	SE	N	O	SE	CV	D	P	Tokidadendron kurilensis (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Coarse Filamentous Reds N	C	SE	N	O	SE	CV	D	P
19C/19	1	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.63	0.63	5	2.00	2.00	-	-	0.769
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.42	0.42	4	4.37	4.37	-	-	0.399
4537C/979	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	5.50	5.50	5	0.00	0.00	-	+	0.374
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			2.17	2.17		2.13	2.13		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.476 y
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.604
19C/19	2	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	5.50	4.36	-	-	0.215
1642C/833	2	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.83	0.83	2	3.75	3.75	-	-	0.539
4537C/979	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	38.33	15.73	5	2.00	2.00	-	+	0.046
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			13.03	5.50		3.77	3.40		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	0.036		Power-50%		0.031	P-value		0.309xy
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	0.011		Power-50%		0.043	P-value		0.855
19C/19	3	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---	0	--	--	4	11.25	7.18	-		---
1642C/833	3	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	5.62	5.63	2	2.50	2.50	-	-	0.959
4537C/979	3	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.50	0.50	-	-	0.374	3	5.83	4.64	5	3.00	3.00	-	-	0.464
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.17	0.17		-			5.70	5.10		5.60	4.23		-	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.315	Power	0.045		Power-50%		0.033	P-value		0.356
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.220	Power	0.062		Power-50%		0.012	P-value		0.254

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Cryptosiphonia woodii (A) N	C	SE	N	O	SE	CV	D	P	Endocladia muricata (P) N	C	SE	N	O	SE	CV	D	P	Gloiopeltis furcata (A) N	C	SE	N	O	SE	CV	D	P
19C/19	1	4	0.00	0.00	5	0.50	0.50	-	-	0.374	4	0.63	0.63	5	0.00	0.00	-	+	0.391	4	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.42	0.42	4	4.37	4.37	-	-	0.399
4537C/979	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.17	0.17		-			0.20	0.20		0.00	0.00		+			0.13	0.13		1.47	1.47		-	
Fisher's		Power	---		Power-50%		---	P-value		0.409	Power	---		Power-50%		---	P-value		0.419	Power	---		Power-50%		---	P-value		0.424
Stouffer's		Power	---		Power-50%		---	P-value		0.408	Power	---		Power-50%		---	P-value		0.422	Power	---		Power-50%		---	P-value		0.343
19C/19	2	2	0.00	0.00	5	2.50	1.94	-	-	0.209	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	2	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.83	0.83	2	3.75	3.75	-	-	0.539
4537C/979	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	2.00	2.00	-	-	0.374
Habitat Means			0.00	0.00		0.83	0.63		-			0.00	0.00		0.00	0.00		o			0.27	0.27		1.93	1.93		-	
Fisher's		Power	0.001		Power-50%		---	P-value		0.295	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.289
Stouffer's		Power	0.000		Power-50%		---	P-value		0.372	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.149
19C/19	3	0	--	--	4	7.50	7.50	-		---	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---
1642C/833	3	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	3	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		2.50	2.50		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597 y	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.172. Algal Percent Cover. Rhodophyta. Prince William Sound. Exposed Rocky. July 1991. Cleared August 1990. (Continued.)

Site Pair	Mvd	Neorhodomela/Rhodomela (P) (a) N	C	SE	N	O	SE	CV	D	P	Odonthalia floccosa (P) N	C	SE	N	O	SE	CV	D	P	Ptilota/Neoptilota (P) (b) N	C	SE	N	O	SE	CV	D	P
19C/19	1	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	1.50	1.50	-	-	0.374	4	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	5	5.50	5.50	5	0.00	0.00	-	+	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			1.83	1.83		0.00	0.00		+			0.00	0.00		0.50	0.50		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.409	Power	---		Power-50%		---	P-value		0.409	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.228	Power	---		Power-50%		---	P-value		0.408	Power	---		Power-50%		---	P-value		0.500
19C/19	2	2	0.00	0.00	5	2.50	2.50	-	-	0.374	2	0.00	0.00	5	0.50	0.50	-	-	0.374	2	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	2	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	2	6	30.42	16.76	5	0.00	0.00	-	+	0.085	6	7.92	7.92	5	0.00	0.00	-	+	0.363	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			10.13	5.60		0.83	0.83		.			2.63	2.63		0.17	0.17		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.007		Power-50%		0.005	P-value		0.230	Power	---		Power-50%		---	P-value		0.517	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.001		Power-50%		0.000	P-value		0.113	Power	---		Power-50%		---	P-value		0.298	Power	---		Power-50%		---	P-value		0.500
19C/19	3	0	--	--	4	0.63	0.63	-		---	0	--	--	4	3.13	3.13	-		---	0	--	--	4	0.00	0.00	-		---
1642C/833	3	4	0.00	0.00	2	2.50	2.50	-	-	0.500	4	5.62	5.63	2	0.00	0.00	-	+	0.391	4	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	3	3	5.00	5.00	5	1.50	1.50	-	+	0.550	3	0.83	0.83	5	1.50	1.50	-	-	0.976	3	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			2.50	2.50		1.53	1.53		-			3.20	3.20		1.53	1.53		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.491 y	Power	---		Power-50%		---	P-value		0.330	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.573	Power	---		Power-50%		---	P-value		0.345	Power	---		Power-50%		---	P-value		0.500

(a) Genera not separated.

(b) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Morphological Group: Saccate Reds N	C	SE	N	O	SE	CV	D	P	Halosaccion glandiforme (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P
19C/19	1	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	2	3	0.00	0.00	2	5.00	5.00	-	-	0.500	3	0.00	0.00	2	5.00	5.00	-	-	0.500	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		1.67	1.67		-			0.00	0.00		1.67	1.67		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.476	Power	---		Power-50%		---	P-value		0.476	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.373	Power	---		Power-50%		---	P-value		0.373	Power	---		Power-50%		---	P-value		0.500
19C/19	3	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---
1642C/833	3	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	3	3	0.83	0.83	5	4.00	2.45	-	-	0.524	3	0.83	0.83	5	4.00	2.45	-	-	0.524	3	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.40	0.40		1.33	0.83		-			0.40	0.40		1.33	0.83		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.025		Power-50%		---	P-value		0.397	Power	0.028		Power-50%		---	P-value		0.397	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	0.025		Power-50%		---	P-value		0.290	Power	0.028		Power-50%		---	P-value		0.290	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.172. Algal Percent Cover. Rhodophyta. Prince William Sound. Exposed Rocky. July 1991. Cleared August 1990. (Continued.)

Site Pair	Mvd	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Crustose Reds N	C	SE	N	O	SE	CV	D	P	Crustose Coralline Algae (P) N	C	SE	N	O	SE	CV	D	P
19C/19	1	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	7.50	5.81	-	-	0.211	4	0.00	0.00	5	1.50	1.50	-	-	0.374
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		2.50	1.93		-			0.00	0.00		0.50	0.50		-	
Fisher's		Power	---		Power-50%		---		P-value	0.655	Power	0.002		Power-50%		---		P-value	0.297	Power	---		Power-50%		---		P-value	0.409
Stouffer's		Power	---		Power-50%		---		P-value	0.500	Power	0.001		Power-50%		---		P-value	0.372	Power	---		Power-50%		---		P-value	0.408
19C/19	2	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	2	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---		P-value	0.655	Power	---		Power-50%		---		P-value	0.655	Power	---		Power-50%		---		P-value	0.655
Stouffer's		Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500
19C/19	3	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---
1642C/833	3	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	3	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---		P-value	0.597	Power	---		Power-50%		---		P-value	0.597	Power	---		Power-50%		---		P-value	0.597
Stouffer's		Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Hildenbrandia sp. (P) N	C	SE	N	O	SE	CV	D	P	Petrocelis (P) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000									
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000									
4537C/979	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		2.00	2.00		-										
Fisher's		Power	---		Power-50%		---		P-value	0.655	Power	---		Power-50%		---		P-value	0.409	Power	---		Power-50%		---		P-value	
Stouffer's		Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.408	Power	---		Power-50%		---		P-value	
19C/19	2	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000									
1642C/833	2	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000									
4537C/979	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---		P-value	0.655	Power	---		Power-50%		---		P-value	0.655	Power	---		Power-50%		---		P-value	
Stouffer's		Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	
19C/19	3	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---									
1642C/833	3	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	0.00	0.00	2	0.00	0.00	-	o	1.000									
4537C/979	3	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---		P-value	0.597	Power	---		Power-50%		---		P-value	0.597	Power	---		Power-50%		---		P-value	
Stouffer's		Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.173. Algal Percent Cover. Invertebrates. Prince William Sound. Exposed Rocky. July 1991. Cleared August 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Actiniidae								Balanomorpha								Lottiidae							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	4	0.00	0.00	5	0.50	0.50	-	-	0.374	4	3.13	3.13	5	1.50	1.50	-	+	0.741	4	1.25	1.25	5	0.00	0.00	-	-	0.391
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	4.17	4.17	4	1.88	1.88	-	+	0.887	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.50	0.50	5	0.00	0.00	-	-	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.17	0.17		-			2.60	2.60		1.13	1.13		-			0.43	0.43		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.409	Power	---		Power-50%		---	P-value		0.324	Power	---		Power-50%		---	P-value		0.419
Stouffer's		Power	---		Power-50%		---	P-value		0.408	Power	---		Power-50%		---	P-value		0.184	Power	---		Power-50%		---	P-value		0.412
19C/19	2	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	5.00	5.00	5	1.00	1.00	-	+	0.356	2	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	2	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	15.00	15.00	2	0.00	0.00	-	+	0.423	3	0.00	0.00	2	5.00	5.00	-	-	0.500
4537C/979	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.42	0.42	5	1.00	1.00	-	-	0.719	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			6.80	6.80		0.67	0.67		+			0.00	0.00		1.67	1.67		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.281	Power	---		Power-50%		---	P-value		0.476
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.373	Power	---		Power-50%		---	P-value		0.373
19C/19	3	0	--	--	4	0.00	0.00	-		---	0	--	--	4	37.50	23.94	-		---	0	--	--	4	0.00	0.00	-		---
1642C/833	3	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	20.00	20.00	2	0.00	0.00	-	+	0.391	4	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	3	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	8.50	8.50	-	-	0.374	3	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			10.00	10.00		15.33	10.80		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	0.001		Power-50%		---	P-value		0.435	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		---	P-value		0.365	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Mytilus								Nucella lamellosa								Littorinidae							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	1.25	1.25	-	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.43	0.43		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.419	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.341	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	2	2.50	2.50	5	0.00	0.00	-	+	0.500	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	2	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	2	6	2.08	1.36	5	0.00	0.00	-	+	0.178	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	1.67	1.24	5	0.00	0.00	-	+	0.194
Habitat Means			1.53	1.30		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.57	0.40		0.00	0.00		-	
Fisher's		Power	0.156		Power-50%		0.225	P-value		0.173	Power	---		Power-50%		---	P-value		0.655	Power	0.004		Power-50%		0.002	P-value		0.282
Stouffer's		Power	---		Power-50%		---	P-value		0.096	Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.000	P-value		0.138
19C/19	3	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---
1642C/833	3	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	3	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.173. Algal Percent Cover. Invertebrates. Prince William Sound. Exposed Rocky. July 1991. Cleared August 1990. (Continued.)

		Mollusca																											
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
19C/19	1	4	0.00	0.00	5	0.00	0.00	-	o	1.000																		
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000																		
4537C/979	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
19C/19	2	2	0.00	0.00	5	0.00	0.00	-	o	1.000																		
1642C/833	2	3	0.00	0.00	2	0.00	0.00	-	o	1.000																		
4537C/979	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
19C/19	3	0	--	--	4	0.00	0.00	-		---																		
1642C/833	3	4	0.00	0.00	2	0.00	0.00	-	o	1.000																		
4537C/979	3	3	0.00	0.00	5	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.174. Algal Percent Cover. Substrates. Prince William Sound. Exposed Rocky. July 1991. Cleared August 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Rock								Mud								Sand							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	4	91.88	5.90	5	81.00	14.07	-	+	0.701	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	6	85.42	14.58	4	86.88	10.07	-	-	0.848	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	5	74.00	16.69	5	100.00	0.00	-	-	0.131	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			83.77	12.40		89.30	8.07		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		0.203		Power-50%		0.619	P-value		0.236	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's	Power		0.162		Power-50%		0.691	P-value		0.104	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	2	90.00	10.00	5	64.00	16.31	-	-	0.326	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	2	3	54.17	24.59	2	85.00	5.00	-	-	0.393	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	2	6	37.08	12.19	5	97.00	3.00	-	-	0.001	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			60.43	15.60		82.00	8.10		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.005	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's	Power		---		Power-50%		---	P-value		0.002	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	3	0	--	--	4	14.37	12.01	-		---	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---
1642C/833	3	4	22.50	9.30	2	50.00	50.00	-	-	0.564	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	3	3	70.00	5.20	5	37.00	14.50	-	-	0.160	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	1.00	1.00	-	-	0.374
Habitat Means			46.25	7.25		33.80	25.50					0.00	0.00		0.00	0.00		o			0.00	0.00		0.33	0.33		-	
Fisher's	Power		0.259		Power-50%		0.078	P-value		0.222	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.315
																				Power	---		Power-50%		---	P-value		0.220

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Shell Fragments								Water								Zostera/Phyllospadix							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	2	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	3	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---
1642C/833	3	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	3	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	4.00	4.00	-	-	0.374	3	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		1.33	1.33		-			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.315	Power	---		Power-50%		---	P-value		0.597
																				Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.174. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Exposed Rocky. July 1991. Cleared August 1990. (Continued.)

		Sand and Mud									Total Substrate																			
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		
19C/19	1	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	91.88	5.90	5	81.00	14.07	-	-	0.701											
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	85.42	14.58	4	86.88	10.07	-	-	0.848											
4537C/979	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	74.00	16.69	5	100.00	0.00	-	-	0.131											
Habitat Means			0.00	0.00		0.00	0.00		o			83.77	12.40		89.30	8.07		-											
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.183		Power-50%		0.613	P-value		0.236	Power	---		Power-50%		---	P-value				
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.152		Power-50%		0.676	P-value		0.104	Power	---		Power-50%		---	P-value				
19C/19	2	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	90.00	10.00	5	64.00	16.31	-	+	0.326											
1642C/833	2	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	54.17	24.59	2	85.00	5.00	-	-	0.393											
4537C/979	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	37.08	12.19	5	97.00	3.00	-	-	0.001											
Habitat Means			0.00	0.00		0.00	0.00		o			60.43	15.60		82.00	8.10		-											
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.005	Power	---		Power-50%		---	P-value				
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.002	Power	---		Power-50%		---	P-value				
19C/19	3	0	--	--	4	0.00	0.00	-		---	0	--	--	4	14.37	12.01	-		---											
1642C/833	3	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	22.50	9.30	2	50.00	50.00	-	-	0.564											
4537C/979	3	3	0.00	0.00	5	5.00	3.87	-	-	0.210	3	70.00	5.20	5	42.00	13.56	-	+	0.194											
Habitat Means			0.00	0.00		1.67	1.30		-			46.25	7.25		35.47	25.20		+											
Fisher's		Power	0.009		Power-50%		---	P-value		0.207	Power	0.216		Power-50%		0.057	P-value		0.255	Power	---		Power-50%		---	P-value				
Stouffer's		Power	0.002		Power-50%		---	P-value		0.138	Power	0.198		Power-50%		0.013	P-value		0.200	Power	---		Power-50%		---	P-value				

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.175. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Sheltered Rocky. May 1991. Cleared June 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variati
SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Algal Diversity Index (a)									Algal Taxa Richness (b)									Total Algae								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.17	0.08	6	0.24	0.09	-	-	0.336	6	1.67	0.33	6	2.50	0.76	-	-	0.342	6	25.42	14.37	6	43.75	12.89	-	-	0.485
14.2C/14.2	1	6	0.19	0.09	4	0.15	0.09	-	+	0.794	6	2.33	0.61	4	1.75	0.48	-	+	0.515	6	60.37	14.92	4	56.88	16.66	-	+	0.814
62762C/50983	1	6	0.13	0.06	6	0.01	0.01	-	+	0.099	6	1.33	0.33	6	1.00	0.26	-	+	0.448	6	15.83	7.38	6	32.08	13.01	-	-	0.378
Habitat Means			0.16	0.08		0.14	0.06		+			1.78	0.43		1.75	0.50		+			33.87	12.23		44.27	14.20		-	
Fisher's		Power	0.172		Power-50%		0.558	P-value		0.203	Power	0.097		Power-50%		0.964	P-value		0.414	Power	0.289		Power-50%		0.369	P-value		0.302
Stouffer's		Power	---		Power-50%		---	P-value		0.079	Power	0.041		Power-50%		0.933	P-value		0.271	Power	0.417		Power-50%		0.447	P-value		0.174
14.1C/14.1	2	6	0.50	0.13	6	0.41	0.08	-	+	0.565	6	4.67	1.02	6	4.00	0.86	-	+	0.628	6	56.25	9.72	6	43.33	11.17	-	+	0.371
14.2C/14.2	2	5	0.30	0.12	4	0.20	0.10	-	+	0.561	5	3.20	0.86	4	2.25	0.63	-	+	0.425	5	87.50	7.29	4	46.88	14.59	-	+	0.028
62762C/50983	2	5	0.27	0.13	6	0.05	0.04	-	+	0.110	5	3.20	1.07	6	1.17	0.31	-	+	0.078	5	60.00	11.91	6	40.00	15.51	-	+	0.291
Habitat Means			0.36	0.13		0.22	0.07		+			3.69	0.98		2.47	0.60		+			67.93	9.63		43.40	13.77		+	
Fisher's		Power	---		Power-50%		---	P-value		0.093	Power	---		Power-50%		---	P-value		0.064	Power	---		Power-50%		---	P-value		0.015
Stouffer's		Power	---		Power-50%		---	P-value		0.037	Power	---		Power-50%		---	P-value		0.024	Power	---		Power-50%		---	P-value		0.032
14.1C/14.1	3	6	0.56	0.10	5	0.52	0.09	-	+	0.781	6	5.83	1.01	5	5.60	0.98	-	+	0.874	6	58.75	9.99	5	96.50	1.50	-	-	0.002
14.2C/14.2	3	2	0.63	0.12	4	0.63	0.07	-	-	0.993	2	5.50	1.50	4	7.25	0.85	-	-	0.329	2	90.00	10.00	4	89.38	7.39	-	-	0.897
62762C/50983	3	5	0.41	0.17	4	0.31	0.18	-	+	0.716	5	3.80	1.46	4	3.00	1.47	-	+	0.715	5	31.50	13.10	4	48.75	26.74	-	-	0.582
Habitat Means			0.53	0.13		0.49	0.12		+			5.04	1.33		5.28	1.10		+			60.10	11.03		78.23	11.87		-	
Fisher's		Power	0.085		Power-50%		0.927	P-value		0.505	Power	0.043		Power-50%		0.625	P-value		0.667 y	Power	---		Power-50%		---	P-value		0.009
Stouffer's		Power	0.091		Power-50%		0.911	P-value		0.341	Power	0.067		Power-50%		0.657	P-value		0.460	Power	---		Power-50%		---	P-value		0.091

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Invertebrates									Rock									Perennials (P)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.42	0.42	6	2.50	1.29	-	-	0.179	6	73.75	14.66	6	53.75	12.55	-	+	0.469	6	25.00	14.46	6	28.75	9.05	-	-	0.915
14.2C/14.2	1	6	10.88	4.60	4	11.88	7.32	-	-	0.920	6	28.75	15.05	4	31.25	14.88	-	-	0.830	6	8.38	3.47	4	3.13	3.13	-	-	0.275
62762C/50983	1	6	34.58	14.45	6	12.08	9.12	-	+	0.205	6	49.58	14.60	6	55.83	11.17	-	-	0.730	6	15.42	7.46	6	31.67	12.81	-	-	0.367
Habitat Means			15.30	6.50		8.83	5.90		-			50.73	14.80		46.97	12.90		-			16.27	8.50		21.20	8.33		-	
Fisher's		Power	0.047		Power-50%		0.298	P-value		0.360 y	Power	0.103		Power-50%		0.349	P-value		0.635 y	Power	0.132		Power-50%		0.460	P-value		0.512
Stouffer's		Power	0.003		Power-50%		0.334	P-value		0.773	Power	0.112		Power-50%		0.397	P-value		0.432	Power	0.238		Power-50%		0.523	P-value		0.293
14.1C/14.1	2	6	8.75	3.58	6	8.33	3.00	-	+	0.893	6	35.00	11.29	6	48.33	10.24	-	-	0.335	6	47.08	11.06	6	32.92	11.77	-	-	0.333
14.2C/14.2	2	5	9.00	6.64	4	17.50	10.46	-	-	0.520	5	3.50	1.27	4	35.63	19.96	-	-	0.214	5	72.50	9.19	4	41.88	15.95	-	+	0.128
62762C/50983	2	5	8.00	3.48	6	5.83	2.79	-	+	0.688	5	32.00	9.03	6	47.92	13.30	-	-	0.341	5	31.00	12.91	6	38.33	15.43	-	-	0.730
Habitat Means			8.60	4.57		10.53	5.43		+			23.50	7.20		43.93	14.50		-			50.20	11.07		37.70	14.40		+	
Fisher's		Power	0.030		Power-50%		0.429	P-value		0.629 y	Power	---		Power-50%		---	P-value		0.072	Power	0.301		Power-50%		0.801	P-value		0.125
Stouffer's		Power	0.055		Power-50%		0.486	P-value		0.412	Power	---		Power-50%		---	P-value		0.067	Power	0.226		Power-50%		0.757	P-value		0.346
14.1C/14.1	3	6	5.83	1.90	5	1.00	1.00	-	+	0.044	6	35.00	10.80	5	2.50	1.58	-	+	0.009	6	30.00	10.45	5	51.50	15.42	-	-	0.269
14.2C/14.2	3	2	0.00	0.00	4	3.13	1.20	-	-	0.064	2	10.00	10.00	4	7.50	6.69	-	-	0.834	2	56.25	8.75	4	50.63	14.16	-	+	0.810
62762C/50983	3	5	10.00	4.68	4	10.63	9.04	-	-	0.792	5	39.50	17.13	4	40.63	21.34	-	-	0.951	5	4.00	2.32	4	20.00	10.16	-	-	0.192
Habitat Means			5.27	2.20		4.90	3.73		-			28.17	12.63		16.87	9.87		+			30.10	7.20		40.70	13.27		-	
Fisher's		Power	0.042		Power-50%		0.112	P-value		0.187 xy	Power	---		Power-50%		---	P-value		0.031	Power	0.309		Power-50%		0.437	P-value		0.136
Stouffer's		Power	0.004		Power-50%		0.292	P-value		0.423	Power	0.335		Power-50%		0.460	P-value		0.226	Power	---		Power-50%		---	P-value		0.075

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.175. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Sheltered Rocky. May 1991. Cleared June 1990. (Continued.)

		Annuals (A)								Ephemerals (AE)															
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.42	0.42	6	15.00	7.77	-	-	0.116	6	0.42	0.42	6	0.00	0.00	-	+	0.363									
14.2C/14.2	1	6	51.98	16.28	4	53.75	18.10	-	-	0.943	6	1.28	1.28	4	25.00	21.04	-	-	0.314									
62762C/50983	1	6	0.42	0.42	6	0.42	0.42	-	o	1.000	6	0.42	0.42	6	0.42	0.42	-	o	1.000									
Habitat Means			17.60	5.70		23.07	8.77		-			0.70	0.70		8.47	7.13		-										
Fisher's		Power	0.186		Power-50%		0.212	P-value		0.199	Power	0.020		Power-50%		---	P-value		0.482	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.247		Power-50%		0.191	P-value		0.320	Power	0.000		Power-50%		---	P-value		0.489	Power	---		Power-50%		---	P-value		
14.1C/14.1	2	6	9.17	4.17	6	10.42	5.30	-	-	0.793	6	0.42	0.42	6	0.00	0.00	-	+	0.363									
14.2C/14.2	2	5	15.00	6.12	4	5.00	1.77	-	+	0.340	5	0.50	0.50	4	0.00	0.00	-	+	0.374									
62762C/50983	2	5	29.00	19.02	6	1.67	1.24	-	+	0.189	5	0.50	0.50	6	1.67	1.24	-	-	0.517									
Habitat Means			17.73	9.77		5.70	2.77		+			0.47	0.47		0.57	0.40		+										
Fisher's		Power	0.351		Power-50%		0.272	P-value		0.159	Power	0.014		Power-50%		---	P-value		0.289 y	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.081	Power	0.032		Power-50%		---	P-value		0.532	Power	---		Power-50%		---	P-value		
14.1C/14.1	3	6	28.75	6.64	5	45.00	16.03	-	-	0.433	6	7.50	3.76	5	24.50	12.78	-	-	0.184									
14.2C/14.2	3	2	33.75	18.75	4	38.75	14.34	-	-	0.828	2	0.00	0.00	4	16.88	15.22	-	-	0.231									
62762C/50983	3	5	27.50	11.81	4	28.75	16.63	-	-	0.962	5	10.00	4.11	4	11.88	7.32	-	-	0.997									
Habitat Means			30.03	12.40		37.53	15.63		-			5.83	2.63		17.77	11.77		-										
Fisher's		Power	0.041		Power-50%		0.622	P-value		0.392	Power	0.311		Power-50%		0.165	P-value		0.106	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.057		Power-50%		0.644	P-value		0.371	Power	0.240		Power-50%		0.363	P-value		0.235	Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.176. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Sheltered Rocky. May 1991. Cleared June 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group: Bladed Greens								Bladed Greens (AK) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	0.42	0.42	6	0.00	0.00	-	+	0.363
14.2C/14.2	1	6	1.28	1.28	4	25.00	21.04	-	-	0.314	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.42	0.42	6	0.42	0.42	-	o	1.000	6	0.42	0.42	6	0.42	0.42	-	o	1.000	6	0.42	0.42	6	0.42	0.42	-	o	1.000
Habitat Means			0.70	0.70		8.47	7.13		-			0.27	0.27		0.13	0.13		+			0.27	0.27		0.13	0.13		+	
Fisher's		Power	0.021		Power-50%		---	P-value		0.482	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	0.000		Power-50%		---	P-value		0.489	Power	---		Power-50%		---	P-value		0.398	Power	---		Power-50%		---	P-value		0.398
14.1C/14.1	2	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	0.42	0.42	6	0.00	0.00	-	+	0.363
14.2C/14.2	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	5	16.00	14.76	6	0.42	0.42	-	+	0.280	5	0.50	0.50	6	0.42	0.42	-	+	0.900	5	0.50	0.50	6	0.42	0.42	-	+	0.900
Habitat Means			5.47	5.07		0.13	0.13		+			0.30	0.30		0.13	0.13		+			0.30	0.30		0.13	0.13		+	
Fisher's		Power	0.025		Power-50%		0.019	P-value		0.189	Power	---		Power-50%		---	P-value		0.380	Power	---		Power-50%		---	P-value		0.380
Stouffer's		Power	0.190		Power-50%		0.100	P-value		0.106	Power	---		Power-50%		---	P-value		0.354	Power	---		Power-50%		---	P-value		0.354
14.1C/14.1	3	6	6.67	3.96	5	24.50	12.78	-	-	0.140	6	6.67	3.96	5	24.50	12.78	-	-	0.140	6	6.67	3.96	5	24.50	12.78	-	-	0.140
14.2C/14.2	3	2	0.00	0.00	4	4.37	2.77	-	-	0.106	2	0.00	0.00	4	2.50	1.02	-	-	0.066	2	0.00	0.00	4	2.50	1.02	-	-	0.066
62762C/50983	3	5	10.00	4.11	4	5.00	3.54	-	-	0.526	5	10.00	4.11	4	5.00	3.54	-	+	0.526	5	10.00	4.11	4	5.00	3.54	-	-	0.526
Habitat Means			5.57	2.70		11.30	6.37		-			5.57	2.70		10.67	5.77		-			5.57	2.70		10.67	5.77		-	
Fisher's		Power	---		Power-50%		---	P-value		0.067	Power	---		Power-50%		---	P-value		0.047	Power	---		Power-50%		---	P-value		0.047
Stouffer's		Power	0.153		Power-50%		0.344	P-value		0.381	Power	0.150		Power-50%		0.354	P-value		0.358	Power	0.152		Power-50%		0.346	P-value		0.358

(a) Kornmannia, Monostroma, Ulva and Ulvaria.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Fine Filamentous Greens								Acrosiphonia sp. (A)								Chaetomorpha/Rhizoclonium (A) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	1.28	1.28	4	25.00	21.04	-	-	0.314	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.43	0.43		8.33	7.00		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.017		Power-50%		---	P-value		0.372	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.000		Power-50%		---	P-value		0.387	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	5	15.50	14.88	6	0.00	0.00	-	+	0.302	5	15.00	15.00	6	0.00	0.00	-	+	0.374	5	0.50	0.50	6	0.00	0.00	-	+	0.374
Habitat Means			5.17	4.97		0.00	0.00		+			5.00	5.00		0.00	0.00		+			0.17	0.17		0.00	0.00		+	
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.364	Power	---		Power-50%		---	P-value		0.409	Power	---		Power-50%		---	P-value		0.409
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.173	Power	---		Power-50%		---	P-value		0.208	Power	---		Power-50%		---	P-value		0.208
14.1C/14.1	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	0.00	0.00	4	1.88	1.88	-	-	0.391	2	0.00	0.00	4	1.88	1.88	-	-	0.391	2	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.63	0.63		-			0.00	0.00		0.63	0.63		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.419	Power	---		Power-50%		---	P-value		0.419	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.500

(a) Genera not separated.
x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.176. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Sheltered Rocky. May 1991. Cleared June 1990. (Continued.)

		Cladophora sp. (AE)									Ulothrix sp. (AE)									Urospora sp. (AE)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	1.28	1.28	4	25.00	21.04	-	-	0.314
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.43	0.43		8.33	7.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	0.016		Power-50%		---	P-value		0.372
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		---	P-value		0.387
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Tubular and Saccate Greens									Blidingia/Enteromorpha (AE) (a)																	
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
14.2C/14.2	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000									
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
14.2C/14.2	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000									
62762C/50983	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
14.1C/14.1	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000									
14.2C/14.2	3	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000									
62762C/50983	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.177. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Sheltered Rocky. May 1991. Cleared June 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta									Morphological Group: Bladed Browns										Alaria sp. (A)									
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
14.1C/14.1	1	6	17.50	10.23	6	14.17	7.06	-	+	0.726	6	17.50	10.23	6	12.92	6.87	-	+	0.652		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
14.2C/14.2	1	6	2.50	2.50	4	0.00	0.00	-	+	0.363	6	2.50	2.50	4	0.00	0.00	-	+	0.363		6	0.00	0.00	4	0.00	0.00	-	o	1.000	
62762C/50983	1	6	10.42	4.89	6	31.67	12.81	-	-	0.206	6	10.42	4.89	6	31.67	12.81	-	-	0.206		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
Habitat Means			10.13	5.87		15.30	6.63		+			10.13	5.87		14.87	6.57		-				0.00	0.00		0.00	0.00		o		
Fisher's		Power	0.017		Power-50%		0.300	P-value		0.463 y	Power	0.016		Power-50%		0.316	P-value		0.438 y		Power	---		Power-50%		---	P-value		0.655	
Stouffer's		Power	0.012		Power-50%		0.395	P-value		0.788	Power	0.014		Power-50%		0.443	P-value		0.779		Power	---		Power-50%		---	P-value		0.500	
14.1C/14.1	2	6	11.67	4.46	6	17.50	9.01	-	-	0.966	6	10.00	3.89	6	16.67	8.53	-	-	0.903		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
14.2C/14.2	2	5	63.00	14.02	4	23.75	12.35	-	+	0.073	5	62.50	14.21	4	23.75	12.35	-	+	0.077		5	0.00	0.00	4	0.00	0.00	-	o	1.000	
62762C/50983	2	5	34.50	11.11	6	39.58	15.23	-	-	0.930	5	34.50	11.11	6	38.33	15.43	-	-	0.976		5	4.00	2.92	6	0.00	0.00	-	+	0.199	
Habitat Means			36.40	9.87		26.97	12.20		-			35.67	9.63		26.27	12.10		-				1.33	0.97		0.00	0.00		-		
Fisher's		Power	0.008		Power-50%		0.788	P-value		0.801 xy	Power	0.010		Power-50%		0.825	P-value		0.796 xy		Power	0.003		Power-50%		0.007	P-value		0.286	
Stouffer's		Power	0.023		Power-50%		0.744	P-value		0.663	Power	0.023		Power-50%		0.792	P-value		0.671		Power	0.003		Power-50%		0.009	P-value		0.120	
14.1C/14.1	3	6	21.67	8.18	5	24.00	8.86	-	-	0.854	6	17.50	7.58	5	24.00	8.86	-	-	0.575		6	0.00	0.00	5	3.00	2.00	-	-	0.187	
14.2C/14.2	3	2	33.75	1.25	4	49.38	10.77	-	-	0.427	2	33.75	1.25	4	31.25	16.02	-	+	0.748		2	20.00	12.50	4	0.00	0.00	-	+	0.227	
62762C/50983	3	5	8.50	4.23	4	26.25	14.67	-	-	0.331	5	8.50	4.23	4	19.38	9.81	-	-	0.425		5	7.00	4.14	4	0.00	0.00	-	+	0.099	
Habitat Means			21.33	4.57		33.23	11.47		-			19.93	4.37		24.90	11.57		-				9.00	5.53		1.00	0.67		-		
Fisher's		Power	0.179		Power-50%		0.452	P-value		0.211	Power	0.103		Power-50%		0.579	P-value		0.367		Power	0.223		Power-50%		0.161	P-value		0.103	
Stouffer's		Power	0.243		Power-50%		0.471	P-value		0.121	Power	0.167		Power-50%		0.556	P-value		0.212		Power	---		Power-50%		---	P-value		0.070	

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Fucus gardneri (P)									Adult Fucus gardneri (P) (> 2cm)										Juvenile Fucus gardneri (P) (<= 2cm)									
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
14.1C/14.1	1	6	17.50	10.23	6	12.92	6.87	-	+	0.652	6	15.42	9.65	6	12.50	6.86	-	-	0.848		6	2.08	1.00	6	0.42	0.42	-	-	0.191	
14.2C/14.2	1	6	2.50	2.50	4	0.00	0.00	-	+	0.363	6	1.67	1.67	4	0.00	0.00	-	-	0.363		6	0.83	0.83	4	0.00	0.00	-	-	0.363	
62762C/50983	1	6	10.42	4.89	6	31.67	12.81	-	-	0.206	6	10.42	4.89	6	29.17	13.73	-	-	0.407		6	0.00	0.00	6	2.50	2.04	-	-	0.213	
Habitat Means			10.13	5.87		14.87	6.57		+			9.17	5.43		13.90	6.87		+				0.97	0.60		0.97	0.80		+		
Fisher's		Power	0.021		Power-50%		0.333	P-value		0.438 y	Power	0.023		Power-50%		0.230	P-value		0.471 y		Power	0.041		Power-50%		0.150	P-value		0.214 y	
Stouffer's		Power	0.016		Power-50%		0.439	P-value		0.779	Power	0.033		Power-50%		0.358	P-value		0.672		Power	0.005		Power-50%		0.128	P-value		0.694	
14.1C/14.1	2	6	10.00	3.59	6	16.67	8.53	-	-	0.903	6	9.17	3.21	6	16.67	8.53	-	-	0.846		6	0.83	0.53	6	0.00	0.00	-	+	0.175	
14.2C/14.2	2	5	62.50	14.21	4	23.75	12.35	-	+	0.077	5	48.00	18.43	4	22.50	12.37	-	+	0.335		5	14.50	14.50	4	1.25	0.72	-	+	0.612	
62762C/50983	2	5	30.50	13.12	6	38.33	15.43	-	-	0.708	5	30.00	13.21	6	38.33	15.43	-	-	0.692		5	0.50	0.50	6	0.00	0.00	-	+	0.374	
Habitat Means			34.33	10.30		26.27	12.10		-			29.07	11.60		25.83	12.10		-				5.27	5.17		0.43	0.23		-		
Fisher's		Power	0.022		Power-50%		0.629	P-value		0.711 xy	Power	0.022		Power-50%		0.517	P-value		0.648 y		Power	0.329		Power-50%		0.285	P-value		0.102	
Stouffer's		Power	0.051		Power-50%		0.596	P-value		0.551	Power	0.057		Power-50%		0.538	P-value		0.443		Power	---		Power-50%		---	P-value		0.089	
14.1C/14.1	3	6	17.50	7.58	5	21.00	9.80	-	-	0.876	6	15.83	7.24	5	20.50	9.82	-	-	0.820		6	1.67	1.24	5	0.50	0.50	-	+	0.517	
14.2C/14.2	3	2	13.75	13.75	4	31.25	16.02	-	-	0.569	2	13.75	13.75	4	15.63	12.52	-	-	0.984		2	0.00	0.00	4	15.62	12.39	-	-	0.174	
62762C/50983	3	5	1.50	1.00	4	19.38	9.81	-	-	0.086	5	1.00	0.61	4	19.38	9.81	-	-	0.070		5	0.50	0.50	4	0.00	0.00	-	+	0.374	
Habitat Means			10.93	7.47		23.90	11.87		-			10.20	7.20		18.50	10.70		-				0.73	0.57		5.37	4.30		+		
Fisher's		Power	0.387		Power-50%		0.337	P-value		0.107	Power	0.345		Power-50%		0.364	P-value		0.129		Power	0.001		Power-50%		0.037	P-value		0.397 y	
Stouffer's		Power	---		Power-50%		---	P-value		0.038	Power	---		Power-50%		---	P-value		0.042		Power	0.000		Power-50%		0.073	P-value		0.271	

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.177. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Sheltered Rocky. May 1991. Cleared June 1990. (Continued.)

Site Pair	Mvd	Fucus Stipes (P) (a) N	C	SE	N	O	SE	CV	D	P	Petalonia/Punctaria (AE) (b) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Coarse Filamentous Browns N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.13	0.13		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.398	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.67	1.05	6	0.83	0.83	-	+	0.549
14.2C/14.2	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.57	0.37		0.27	0.27		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	0.009		Power-50%		0.014	P-value		0.499
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	0.009		Power-50%		0.014	P-value		0.432
14.1C/14.1	3	6	0.42	0.42	5	0.00	0.00	-	+	0.363	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	3.33	1.54	5	0.00	0.00	-	+	0.039
14.2C/14.2	3	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	3.75	2.39	-	-	0.191
62762C/50983	3	5	19.00	19.00	4	0.00	0.00	-	+	0.374	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			6.47	6.47		0.00	0.00		+			0.00	0.00		0.00	0.00		o			1.10	0.50		1.27	0.80		-	
Fisher's		Power	---		Power-50%		---	P-value		0.227	Power	---		Power-50%		---	P-value		0.655	Power	0.080		Power-50%		0.040	P-value		0.148 y
Stouffer's		Power	---		Power-50%		---	P-value		0.142	Power	---		Power-50%		---	P-value		0.500	Power	0.005		Power-50%		0.017	P-value		0.414

(a) Dead Fucus plants or stipes without blades.
(b) Genera not separated.

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Analipus japonicus (P) N	C	SE	N	O	SE	CV	D	P	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.67	1.05	6	0.83	0.83	-	-	0.549	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.50	0.50	4	0.00	0.00	-	+	0.374
62762C/50983	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	1.25	1.25	-	-	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.57	0.37		0.27	0.27		+			0.17	0.17		0.43	0.43		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.006		Power-50%		0.020	P-value		0.499	Power	---		Power-50%		---	P-value		0.517
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.006		Power-50%		0.020	P-value		0.432	Power	---		Power-50%		---	P-value		0.282
14.1C/14.1	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	3.33	1.54	5	0.00	0.00	-	+	0.039	6	0.83	0.83	5	0.00	0.00	-	+	0.363
14.2C/14.2	3	2	0.00	0.00	4	0.63	0.63	-	-	0.391	2	0.00	0.00	4	3.13	2.37	-	-	0.216	2	0.00	0.00	4	14.37	14.37	-	-	0.391
62762C/50983	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	6.88	6.07	-	-	0.261
Habitat Means			0.00	0.00		0.20	0.20		-			1.10	0.50		1.03	0.80		+			0.27	0.27		7.10	6.83		-	
Fisher's		Power	---		Power-50%		---	P-value		0.419	Power	0.030		Power-50%		0.040	P-value		0.147	Power	0.005		Power-50%		---	P-value		0.258
Stouffer's		Power	---		Power-50%		---	P-value		0.403	Power	0.001		Power-50%		0.015	P-value		0.406	Power	0.005		Power-50%		---	P-value		0.155

(a) Genera not separated.

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.177. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Sheltered Rocky. May 1991. Cleared June 1990. (Continued.)

		Fine Filamentous Browns (AE) (b)								Morphological Group: Saccate Browns								Leathesia/Colpomenia (A) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	5	0.50	0.50	4	0.00	0.00	-	+	0.374	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	5	0.00	0.00	6	1.25	1.25	-	-	0.363	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.17	0.17		0.43	0.43		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.517	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.282	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	6	0.83	0.83	5	0.00	0.00	-	+	0.363	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	0.00	0.00	4	14.37	14.37	-	-	0.391	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	3	5	0.00	0.00	4	6.88	6.07	-	-	0.261	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.27	0.27		7.10	6.83		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.004		Power-50%		---	P-value		0.258	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.006		Power-50%		---	P-value		0.155	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

(b) Blachista, Ectocarpus and Pilayella.

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Soranthera ulvoidea (A)								Morphological Group: Crustose Browns								Ralfsia/Petroderma (P) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	1.25	1.25	-	-	0.363	6	0.00	0.00	6	1.25	1.25	-	-	0.363
14.2C/14.2	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.43	0.43		-			0.00	0.00		0.43	0.43		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.398	Power	---		Power-50%		---	P-value		0.398
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.178. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. May 1991. Cleared June 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; · = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group: Bladed Reds								Bangia sp. (AE)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	7.50	4.47	6	29.58	11.64	-	-	0.169	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	56.58	14.94	4	31.87	14.84	-	·	0.245	6	50.28	15.72	4	21.25	14.20	-	+	0.219	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	1	6	5.00	3.23	6	0.00	0.00	-	·	0.177	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			23.03	7.53		20.50	8.80		·			16.77	5.23		7.23	4.87		·			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.093		Power-50%		0.668	P-value		0.161	Power	0.043		Power-50%		0.046	P-value		0.400	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.035		Power-50%		0.783	P-value		0.120	Power	0.008		Power-50%		0.013	P-value		0.464	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	44.17	9.55	6	25.83	6.48	-	+	0.132	6	6.25	3.81	6	2.08	1.19	-	·	0.498	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	5	24.50	10.62	4	23.13	16.47	-	+	0.971	5	15.50	7.52	4	8.75	8.75	-	-	0.475	5	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	5	9.50	6.04	6	0.00	0.00	-	+	0.111	5	5.00	3.45	6	0.00	0.00	-	-	0.191	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			26.07	8.73		16.30	7.67		+			8.93	4.93		3.63	3.33		·			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.049	Power	0.340		Power-50%		0.429	P-value		0.111	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.029	Power	---		Power-50%		---	P-value		0.056	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	6	30.42	4.81	5	48.00	12.63	-	-	0.202	6	10.83	3.14	5	10.00	3.06	-	-	0.753	6	0.00	0.00	5	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	56.25	11.25	4	35.63	5.81	-	+	0.143	2	15.00	2.50	4	18.75	1.61	-	-	0.255	2	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	3	5	13.00	6.19	4	17.50	10.90	-	-	0.983	5	3.50	1.87	4	8.75	6.50	-	-	0.643	5	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			33.23	7.43		33.70	9.77		-			9.77	2.50		12.53	3.73		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.133		Power-50%		0.599	P-value		0.406	Power	0.147		Power-50%		0.647	P-value		0.291	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.094		Power-50%		0.669	P-value		0.514	Power	0.186		Power-50%		0.692	P-value		0.255	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Gigartinaceae Group (P) (a)								Palmaria spp. (A)								Phycodrys riggii (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.42	0.42	4	0.00	0.00	-	+	0.363	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.13	0.13		0.13	0.13		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.519 y	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	2.50	1.71	6	1.25	0.85	-	+	0.714	6	1.25	1.25	6	0.00	0.00	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	5	2.00	2.00	4	8.75	8.75	-	-	0.569	5	6.00	6.00	4	0.00	0.00	-	·	0.374	5	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	5	0.50	0.50	6	0.00	0.00	-	+	0.374	5	4.50	3.00	6	0.00	0.00	-	-	0.187	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			1.67	1.40		3.37	3.23		+			3.93	3.43		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.050		Power-50%		0.228	P-value		0.414 y	Power	---		Power-50%		---	P-value		0.074	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.079		Power-50%		0.385	P-value		0.225	Power	---		Power-50%		---	P-value		0.043	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	6	2.08	1.19	5	7.50	3.06	-	-	0.137	6	3.33	2.20	5	0.00	0.00	-	-	0.179	6	0.00	0.00	5	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	7.50	7.50	4	8.75	4.62	-	-	0.823	2	1.25	1.25	4	5.00	2.28	-	-	0.405	2	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	3	5	0.00	0.00	4	0.63	0.63	-	-	0.391	5	2.00	1.22	4	8.13	5.90	-	-	0.416	5	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			3.20	2.90		5.63	2.77		-			2.20	1.57		4.37	2.73		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.319		Power-50%		0.134	P-value		0.109	Power	0.134		Power-50%		0.449	P-value		0.367	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.353		Power-50%		0.142	P-value		0.102	Power	0.051		Power-50%		0.580	P-value		0.275	Power	---		Power-50%		---	P-value		0.500

(a) Chondrus, Iridaea, Mastocarpus and Rhodoglossum.

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.178. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. May 1991. Cleared June 1990. (Continued.)

Site Pair	Mvd	Porphyra sp. (A) N	C	SE	N	O	SE	CV	D	P	Tokidadendron kurilensis (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Coarse Filamentous Reds N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	2.08	2.08	6	17.50	9.44	-	-	0.156
14.2C/14.2	1	6	49.87	15.84	4	21.25	14.20	-	-	0.225	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	5.88	2.04	4	7.50	4.79	-	-	0.979
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	5.00	3.23	6	0.00	0.00	-	+	0.177
Habitat Means			16.63	5.27		7.10	4.73		+			0.00	0.00		0.00	0.00		o			4.33	2.43		8.33	4.73		-	
Fisher's		Power	0.057		Power-50%		0.028	P-value		0.308	Power	---		Power-50%		---	P-value		0.655	Power	0.107		Power-50%		0.511	P-value		0.348
Stouffer's		Power	0.019		Power-50%		0.009	P-value		0.365	Power	---		Power-50%		---	P-value		0.500	Power	0.035		Power-50%		0.604	P-value		0.795
14.1C/14.1	2	6	2.50	1.58	6	0.83	0.53	-	-	0.415	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	7.08	2.08	6	17.92	4.98	-	-	0.170
14.2C/14.2	2	5	7.50	4.74	4	0.00	0.00	-	-	0.181	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	6.50	4.65	4	6.25	0.72	-	-	0.619
62762C/50983	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			3.33	2.10		0.27	0.17		+			0.00	0.00		0.00	0.00		o			4.53	2.27		8.07	1.90		-	
Fisher's		Power	0.190		Power-50%		0.187	P-value		0.156	Power	---		Power-50%		---	P-value		0.655	Power	0.357		Power-50%		0.170	P-value		0.315
Stouffer's		Power	0.252		Power-50%		0.260	P-value		0.270	Power	---		Power-50%		---	P-value		0.500	Power	0.389		Power-50%		0.204	P-value		0.401
14.1C/14.1	3	6	5.42	3.32	5	0.00	0.00	-	+	0.109	6	0.00	0.00	5	2.50	1.58	-	-	0.181	6	5.00	1.71	5	17.50	5.18	-	-	0.024
14.2C/14.2	3	2	0.00	0.00	4	1.25	1.25	-	-	0.391	2	6.25	6.25	4	3.75	2.39	-	+	0.803	2	38.75	16.25	4	7.50	3.68	-	+	0.067
62762C/50983	3	5	1.50	1.00	4	0.00	0.00	-	+	0.186	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	2.00	1.46	4	0.00	0.00	-	+	0.198
Habitat Means			2.30	1.43		0.43	0.43		-			2.10	2.10		2.10	1.33		-			15.27	6.50		8.33	2.97		-	
Fisher's		Power	---		Power-50%		---	P-value		0.088	Power	0.067		Power-50%		---	P-value		0.301 y	Power	---		Power-50%		---	P-value		0.076x
Stouffer's		Power	---		Power-50%		---	P-value		0.077	Power	0.088		Power-50%		---	P-value		0.378	Power	0.113		Power-50%		0.756	P-value		0.145

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Articulate Coralline Algae (A) N	C	SE	N	O	SE	CV	D	P	Cryptosiphonia woodii (A) N	C	SE	N	O	SE	CV	D	P	Endocladia muricata (P) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	2.08	2.08	6	2.50	2.04	-	-	0.764
14.2C/14.2	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	5.47	2.02	4	0.00	0.00	-	+	0.029
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	5.00	3.23	6	0.00	0.00	-	+	0.177
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			4.20	2.43		0.83	0.67		+	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.027
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.038
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.42	0.42	6	1.67	1.67	-	-	0.659	6	2.08	1.00	6	2.92	1.87	-	-	0.983
14.2C/14.2	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	5.00	4.40	4	1.25	1.25	-	-	0.554
62762C/50983	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.13	0.13		0.57	0.57		-			2.37	1.80		1.40	1.07		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.545	Power	0.022		Power-50%		0.074	P-value		0.505
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.450	Power	0.034		Power-50%		0.111	P-value		0.436
14.1C/14.1	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	1.25	0.85	5	10.50	6.96	-	-	0.166	6	0.00	0.00	5	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	3.75	3.75	4	0.63	0.63	-	+	0.394	2	0.00	0.00	4	0.63	0.63	-	-	0.391	2	3.75	3.75	4	0.00	0.00	-	+	0.500
62762C/50983	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			1.27	1.27		0.20	0.20		+			0.43	0.30		3.70	2.53		-			1.27	1.27		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.421	Power	0.189		Power-50%		0.005	P-value		0.141	Power	---		Power-50%		---	P-value		0.476
Stouffer's		Power	---		Power-50%		---	P-value		0.404	Power	0.221		Power-50%		0.000	P-value		0.261	Power	---		Power-50%		---	P-value		0.424

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.178. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. May 1991. Cleared June 1990. (Continued.)

Site Pair	Mvd	Gloiopeltis furcata (A) N	C	SE	N	O	SE	CV	D	P	Microcladia borealis (A) N	C	SE	N	O	SE	CV	D	P	Neorhodomela/Rhodomela (P) (a) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	15.00	7.77	-	-	0.090	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.42	0.42	4	7.50	4.79	-	-	0.122	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	1	*6*	*0.00*	*0.00*	*6*	*0.00*	*0.00*	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.13	0.13		7.50	4.20		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.040	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.583		Power-50%		---	P-value		0.177	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	2.08	1.36	6	7.08	5.64	-	-	0.469	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.42	0.42	-	-	0.363
14.2C/14.2	2	5	1.00	0.61	4	5.00	1.77	-	-	0.114	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			1.03	0.67		4.03	2.47		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.13	0.13		-	
Fisher's		Power	0.265		Power-50%		0.262	P-value		0.124	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	0.281		Power-50%		0.307	P-value		0.256	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.398
14.1C/14.1	3	6	0.42	0.42	5	0.00	0.00	-	-	0.363	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.83	0.53	5	0.00	0.00	-	-	0.175
14.2C/14.2	3	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	3.13	3.13	-	-	0.391
62762C/50983	3	5	*0.00*	*0.00*	*4*	*0.00*	*0.00*	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.50	0.50	4	0.00	0.00	-	+	0.374
Habitat Means			0.13	0.13		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.43	0.33		1.03	1.03		+	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655	Power	0.084		Power-50%		0.129	P-value		0.193 y
Stouffer's		Power	---		Power-50%		---	P-value		0.398	Power	---		Power-50%		---	P-value		0.500	Power	0.057		Power-50%		0.125	P-value		0.170

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Odonthalia floccosa (P) N	C	SE	N	O	SE	CV	D	P	Ptilota/Neoptilota (P) (b) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Saccate Reds N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	*0.00*	*0.00*	*6*	*0.00*	*0.00*	-	o	*1.000*	*6*	*0.00*	*0.00*	*6*	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	2.50	1.58	6	5.83	2.47	-	-	0.293	6	0.00	0.00	6	0.00	0.00	-	o	*1.000*	*6*	*0.83*	*0.83*	*6*	*0.00*	*0.00*	-	-	*0.363*
14.2C/14.2	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.50	0.50	4	0.00	0.00	-	+	0.374	5	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	2.50	2.50	6	0.00	0.00	-	+	0.374
Habitat Means			0.83	0.53		1.93	0.83		-			0.17	0.17		0.00	0.00		+			1.10	1.10		0.00	0.00		-	
Fisher's		Power	0.046		Power-50%		0.015	P-value		0.358	Power	---		Power-50%		---	P-value		0.409	Power	---		Power-50%		---	P-value		0.227
Stouffer's		Power	0.015		Power-50%		0.015	P-value		0.382	Power	---		Power-50%		---	P-value		0.400	Power	---		Power-50%		---	P-value		0.142
14.1C/14.1	3	6	2.50	1.29	5	4.00	2.57	-	-	*0.853*	6	*0.00*	*0.00*	5	*3.00*	*1.84*	-	-	*0.101*	*6*	*4.58*	*4.10*	5	4.00	2.57	-	+	0.909
14.2C/14.2	3	2	0.00	0.00	4	3.13	3.13	-	-	0.391	2	31.25	16.25	4	0.00	0.00	-	+	0.193	2	0.00	0.00	4	2.50	1.77	-	-	0.204
62762C/50983	3	5	1.50	1.50	4	0.00	0.00	-	-	0.374	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	3.50	3.50	4	8.75	5.05	-	-	0.407
Habitat Means			1.33	0.93		2.37	1.90		-			10.43	5.43		1.00	0.60		-			2.70	2.53		5.10	3.17		-	
Fisher's		Power	0.031		Power-50%		0.095	P-value		0.496	Power	0.010		Power-50%		0.029	P-value		0.271 y	Power	0.201		Power-50%		0.000	P-value		0.176
Stouffer's		Power	0.020		Power-50%		0.121	P-value		0.697	Power	0.000		Power-50%		0.011	P-value		0.461	Power	0.305		Power-50%		0.012	P-value		0.138

(b) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.178. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. May 1991, Cleared June 1990. (Continued.)

Site Pair	Mvd	Halosaccion glandiforme (A) N	C	SE	N	O	SE	CV	D	P	Halosaccion spp. (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.42	0.42	4	0.00	0.00	-	-	0.363
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.13	0.13		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.398
14.1C/14.1	2	6	0.83	0.83	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	5	2.50	2.50	6	0.00	0.00	-	+	0.374	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	2.00	0.94	6	0.00	0.00	-	+	0.078
Habitat Means			1.10	1.10		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.67	0.30		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.227	Power	---		Power-50%		---	P-value		0.655	Power	0.066		Power-50%		0.100	P-value		0.159
Stouffer's		Power	---		Power-50%		---	P-value		0.142	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.053
14.1C/14.1	3	6	4.58	4.10	5	4.00	2.57	-	+	0.909	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	2.92	1.87	5	0.50	0.50	-	+	0.392
14.2C/14.2	3	2	0.00	0.00	4	2.50	1.77	-	-	0.204	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	2.50	2.50	4	3.13	3.13	-	+	0.890
62762C/50983	3	5	3.50	3.50	4	8.75	5.05	-	-	0.407	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	3.50	1.70	4	0.00	0.00	-	-	0.083
Habitat Means			2.70	2.53		5.10	3.17		-			0.00	0.00		0.00	0.00		o			2.97	2.03		1.20	1.20		-	
Fisher's		Power	0.186		Power-50%		0.007	P-value		0.176	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.095
Stouffer's		Power	0.286		Power-50%		0.009	P-value		0.138	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.037

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Callithamnion pikeanum (A) N	C	SE	N	O	SE	CV	D	P	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Crustose Reds N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	5.42	4.49	6	12.67	8.05	-	-	0.640
14.2C/14.2	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	3.13	3.13	-	-	0.391
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			1.80	1.50		4.93	3.73		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	0.014		Power-50%		0.000	P-value		0.327
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	0.026		Power-50%		0.000	P-value		0.353
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	30.00	13.31	6	5.83	3.46	-	+	0.107
14.2C/14.2	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	2.50	2.50	4	8.12	8.12	-	-	0.627
62762C/50983	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	2.00	0.94	6	0.00	0.00	-	+	0.078	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.67	0.30		0.00	0.00		+			10.83	5.27		4.63	3.87		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.063		Power-50%		0.104	P-value		0.159	Power	0.095		Power-50%		0.041	P-value		0.238
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.053	Power	0.075		Power-50%		0.067	P-value		0.374
14.1C/14.1	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	2.92	1.87	5	0.50	0.50	-	+	0.392	6	7.08	4.15	5	16.00	16.00	-	-	0.860
14.2C/14.2	3	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	2.50	2.50	4	3.13	3.13	-	-	0.890	2	0.00	0.00	4	3.75	2.98	-	-	0.227
62762C/50983	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	3.50	1.70	4	0.00	0.00	-	+	0.083	5	0.50	0.50	4	0.00	0.00	-	+	0.374
Habitat Means			0.00	0.00		0.00	0.00		o			2.97	2.03		1.20	1.20		-			2.53	1.57		6.60	6.33		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.095	Power	0.012		Power-50%		0.027	P-value		0.374
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.037	Power	0.014		Power-50%		0.038	P-value		0.662

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.178. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. May 1991. Cleared June 1990. (Continued.)

Site Pair	Mvd	Crustose Coralline Algae (P)									Hildenbrandia sp. (P)										Petrocelis (P)									
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
14.1C/14..	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	5.42	4.49	6	5.00	3.71	-	+	0.994		6	0.00	0.00	6	6.67	6.67	-	-	0.363	
14.2C/14.2	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	3.13	3.13	-	-	0.391		6	0.00	0.00	4	0.00	0.00	-	o	1.000	
62762C/50383	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			1.80	1.50		2.70	2.27		-				0.00	0.00		2.23	2.23		-		
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power	0.005		Power-50%		0.000	P-value		0.420		Power		---		Power-50%		---	P-value		0.403
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	0.010		Power-50%		0.000	P-value		0.404		Power		---		Power-50%		---	P-value		0.398
14.1C/14.1	2	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	30.00	13.31	6	5.42	3.56	-	+	0.088		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
14.2C/14.2	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	8.12	8.12	-	-	0.391		5	2.50	2.50	4	0.00	0.00	-	+	0.374	
62762C/50383	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000		5	0.00	0.00	6	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.13	0.13		-			10.00	4.43		4.50	3.90		·				0.83	0.83		0.00	0.00		+		
Fisher's	Power		---		Power-50%		---	P-value		0.403	Power	0.061		Power-50%		0.017	P-value		0.233		Power		---		Power-50%		---	P-value		0.409
Stouffer's	Power		---		Power-50%		---	P-value		0.398	Power	0.009		Power-50%		0.005	P-value		0.404		Power		---		Power-50%		---	P-value		0.400
14.1C/14.1	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	7.08	4.15	5	16.00	16.00	-	-	0.860		6	0.00	0.00	5	0.00	0.00	-	o	1.000	
14.2C/14.2	3	2	0.00	0.00	4	0.63	0.63	-	-	0.391	2	0.00	0.00	4	0.00	0.00	-	o	1.000		2	0.00	0.00	4	3.13	3.13	-	-	0.391	
62762C/50383	3	5	0.50	0.50	4	0.00	0.00	-	-	0.374	5	0.00	0.00	4	0.00	0.00	-	o	1.000		5	0.00	0.00	4	0.00	0.00	-	o	1.000	
Habitat Means			0.17	0.17		0.20	0.20		·			2.37	1.40		5.33	5.33		-				0.00	0.00		1.03	1.03		-		
Fisher's	Power		---		Power-50%		---	P-value		0.522 y	Power	0.000		Power-50%		0.005	P-value		0.615		Power		---		Power-50%		---	P-value		0.419
Stouffer's	Power		---		Power-50%		---	P-value		0.285	Power	0.000		Power-50%		0.000	P-value		0.480		Power		---		Power-50%		---	P-value		0.403

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.179. Algal Percent Cover. Invertebrates. Cook Inlet/Kenai. Sheltered Rocky. May 1991. Cleared June 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Actiniidae								Balanomorpha								Polyplacophora							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.42	0.42	6	2.50	1.29	-	-	0.179	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	10.88	4.60	4	11.88	7.32	-	-	0.920	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	15.42	5.90	6	11.67	9.19	-	+	0.585	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			8.90	3.63		8.70	5.93		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.053		Power-50%		0.337	P-value		0.315 y	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.029		Power-50%		0.422	P-value		0.535	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	7.92	3.50	6	8.33	3.00	-	-	0.789	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	9.00	6.64	4	16.88	9.92	-	-	0.533	5	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	7.00	2.89	6	5.42	2.62	-	+	0.717	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			7.97	4.33		10.20	5.17		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.079		Power-50%		0.440	P-value		0.495	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.080		Power-50%		0.519	P-value		0.531	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	5.00	1.71	5	1.00	1.00	-	+	0.052	6	0.00	0.00	5	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	1.88	1.20	-	-	0.191	2	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	9.50	4.90	4	3.13	1.88	-	+	0.447	5	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			4.83	2.20		2.00	1.37		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.315		Power-50%		0.174	P-value		0.105	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.112		Power-50%		0.212	P-value		0.190	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Lottiidae								Mytilus								Nucella lamellosa							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	19.17	14.76	6	0.42	0.42	-	+	0.158	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			6.40	4.93		0.13	0.13		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.028		Power-50%		0.009	P-value		0.250	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.098	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.63	0.63	-	-	0.391	5	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	1.00	1.00	6	0.42	0.42	-	+	0.719	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.33	0.33		0.33	0.33		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.477 y	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.534	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	6	0.42	0.42	5	0.00	0.00	-	+	0.363	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.50	0.50	4	7.50	7.50	-	-	0.421	5	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.13	0.13		0.00	0.00		-			0.17	0.17		2.50	2.50		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.436	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.398	Power	---		Power-50%		---	P-value		0.231	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.179. Algal Percent Cover. Invertebrates. Cook Inlet/Kenai. Sheltered Rocky. May 1991. Cleared June 1990. (Continued.)

		Littorinidae								Porifera								Cnideria							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	0.83	0.83	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.27	0.27		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.398	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	6	0.42	0.42	5	0.00	0.00	-	+	0.363	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	1.25	1.25	-	-	0.391
62762C/50983	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.13	0.13		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.43	0.43		-	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.419
Stouffer's		Power	---		Power-50%		---	P-value		0.398	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.403

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.180. Algal Percent Cover. Substrates. Cook Inlet/Kenai. Sheltered Rocky. May 1991. Cleared June 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Rock								Oiled Rock								Mud							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
14.1C/14.1	1	6	73.75	14.66	6	53.33	12.24	-	+	0.386	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	28.75	15.05	4	31.25	14.88	-	-	0.830	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	1	6	49.58	14.60	6	55.83	11.17	-	-	0.730	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			50.73	14.80		46.80	12.77		-			0.00	0.00		0.13	0.13		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.101		Power-50%		0.337	P-value		0.649 y	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.105		Power-50%		0.414	P-value		0.448	Power	---		Power-50%		---	P-value		0.398	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	35.00	11.29	6	48.33	10.24	-	-	0.335	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	5	3.50	1.27	4	35.63	19.96	-	-	0.214	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	5	32.00	9.03	6	47.92	13.30	-	-	0.341	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			23.50	7.20		43.93	14.50		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.072	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.067	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	6	35.00	10.80	5	2.50	1.58	-	+	0.009	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	*10.00*	*10.00*	4	7.50	*6.69*	-	+	*0.834*	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	3	5	39.50	17.13	4	40.63	21.34	-	-	0.951	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			28.17	12.63		16.87	9.87		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.031	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.297		Power-50%		0.397	P-value		0.226	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Sand								*Shell Fragments*								Filamentous Diatoms							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	5	0.00	0.00	6	6.25	6.25	-	-	0.363	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		2.10	2.10		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.203	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		*0.655*	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.180. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Sheltered Rocky. May 1991. Cleared June 1990. (Continued.)

		Sand and Mud								Total Substrate																
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	28.75	15.05	4	31.25	14.88	-	-	0.830									
14.2C/14.2	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	49.58	14.60	6	55.83	11.17	-	-	0.730									
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o			50.73	14.80		46.97	12.90		-										
Fisher's		Power	---		Power-50%		---	P-value		0.655	o	0.103		Power-50%		0.305	P-value		0.635 y		---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	o	0.110		Power-50%		0.436	P-value		0.432		---		Power-50%		---	P-value		
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	35.00	11.29	6	48.33	10.24	-	-	0.335									
14.2C/14.2	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	3.50	1.27	4	35.63	19.96	-	-	0.214									
62762C/50983	2	5	0.00	0.00	6	6.25	6.25	-	-	0.363	5	32.00	9.03	6	54.17	13.32	-	-	0.224									
Habitat Means			0.00	0.00		2.10	2.10		-			23.50	7.20		46.03	14.50		-										
Fisher's		Power	---		Power-50%		---	P-value		0.403	o	---		Power-50%		---	P-value		0.053		---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.203	o	---		Power-50%		---	P-value		0.041		---		Power-50%		---	P-value		
14.1C/14.1	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	35.00	10.80	5	2.50	1.58	-	-	0.009									
14.2C/14.2	3	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	10.00	10.00	4	7.50	6.69	-	-	0.834									
62762C/50983	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	39.50	17.13	4	40.63	21.34	-	-	0.951									
Habitat Means			0.00	0.00		0.00	0.00		o			28.17	12.63		16.87	9.87		*										
Fisher's		Power	---		Power-50%		---	P-value		0.655	c	---		Power-50%		---	P-value		0.031		---		Power-50%		---	P-value		
[illegible]		[illegible]			[illegible]			P-value		0.500	c	0.300		Power-50%		0.409	P-value		0.226		---		Power-50%		---	P-value		

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.181. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Cleared August 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Algal Diversity Index (a)								Algal Taxa Richness (b)								Total Algae							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	5	0.07	0.07	5	0.26	0.11	-	-	0.188	5	1.20	0.49	5	2.40	0.51	-	-	0.128	5	21.50	15.96	5	47.50	8.77	-	-	0.142
14.2C/14.2	1	6	0.31	0.12	5	0.12	0.09	-	-	0.231	6	3.17	0.87	5	1.20	0.58	-	+	0.107	6	65.83	17.60	5	13.00	6.19	-	+	0.042
62762C/50983	1	5	0.02	0.02	6	0.00	0.00	-	-	0.374	5	0.80	0.37	6	0.33	0.21	-	+	0.285	5	16.00	9.14	6	1.25	0.85	-	+	0.106
Habitat Means			0.13	0.07		0.13	0.07		+			1.72	0.58		1.31	0.43		+			34.43	14.23		20.60	5.30		+	
Fisher's		Power	0.075		Power-50%		0.141	P-value		0.248	Power	0.333		Power-50%		0.733	P-value		0.130	Power	---		Power-50%		---	P-value		0.033
Stouffer's		Power	0.051		Power-50%		0.258	P-value		0.218	Power	0.093		Power-50%		0.791	P-value		0.158	Power	---		Power-50%		---	P-value		0.051
14.1C/14.1	2	6	0.22	0.09	6	0.31	0.09	-	-	0.499	6	3.00	0.73	6	3.17	0.60	-	-	0.864	6	55.83	17.83	6	70.00	10.72	-	-	0.598
14.2C/14.2	2	5	0.26	0.15	6	0.25	0.11	-	+	0.952	5	3.00	1.14	6	2.50	1.02	-	+	0.751	5	74.00	14.27	6	27.08	10.21	-	+	0.023
62762C/50983	2	6	0.43	0.11	4	0.00	0.00	-	+	0.012	6	3.83	1.05	4	1.00	0.00	-	+	0.042	6	32.50	12.80	4	33.13	19.85	-	-	0.873
Habitat Means			0.30	0.12		0.19	0.07		+			3.28	0.97		2.22	0.54		+			54.10	14.97		43.40	13.60		-	
Fisher's		Power	---		Power-50%		---	P-value		0.056	Power	---		Power-50%		---	P-value		0.095	Power	0.082		Power-50%		0.455	P-value		0.664xy
Stouffer's		Power	---		Power-50%		---	P-value		0.017	Power	---		Power-50%		---	P-value		0.029	Power	0.027		Power-50%		0.533	P-value		0.638
14.1C/14.1	3	5	0.36	0.12	6	0.59	0.08	-	-	0.149	5	4.40	1.29	6	6.50	0.85	-	-	0.193	5	73.00	18.90	6	94.58	3.12	-	-	0.235
14.2C/14.2	3	2	0.43	0.14	5	0.38	0.17	-	+	0.874	2	5.00	0.00	5	4.20	1.59	-	+	0.642	2	98.75	1.25	5	43.50	21.01	-	+	0.171
62762C/50983	3	5	0.47	0.09	5	0.13	0.09	-	+	0.027	5	4.60	1.08	5	2.40	0.87	-	+	0.151	5	52.50	16.83	5	62.50	14.71	-	-	0.537
Habitat Means			0.42	0.12		0.37	0.11		+			4.67	0.79		4.37	1.10		+			74.77	12.33		66.87	12.93		-	
Fisher's		Power	0.371		Power-50%		0.982	P-value		0.108	Power	0.412		Power-50%		0.965	P-value		0.266	Power	0.046		Power-50%		0.622	P-value		0.313 y
Stouffer's		Power	---		Power-50%		---	P-value		0.049	Power	0.266		Power-50%		0.973	P-value		0.141	Power	0.009		Power-50%		0.681	P-value		0.304

(a) Modified Shannon Index.
(b) Taxa richness calculations are explained in the methods.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Invertebrates								Rock								Perennials (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	5	0.00	0.00	5	6.00	3.76	-	-	0.180	5	78.50	15.96	5	46.50	10.02	-	+	0.099	5	21.50	15.96	5	33.00	11.44	-	-	0.574
14.2C/14.2	1	6	13.33	12.34	5	15.50	9.57	-	-	0.756	6	19.58	16.19	5	71.50	15.58	-	-	0.055	6	30.00	15.85	5	2.50	2.50	-	-	0.124
62762C/50983	1	5	7.00	5.33	6	5.00	2.24	-	+	0.829	5	77.00	14.30	6	93.75	1.91	-	-	0.488	5	6.50	3.50	6	1.25	0.85	-	+	0.205
Habitat Means			6.77	5.87		8.83	5.20		-			58.37	15.50		70.60	9.17		-			19.33	11.80		12.27	4.93		+	
Fisher's		Power	0.197		Power-50%		0.032	P-value		0.251	Power	0.529		Power-50%		0.294	P-value		0.119x	Power	---		Power-50%		---	P-value		0.095
Stouffer's		Power	0.250		Power-50%		0.051	P-value		0.392	Power	0.308		Power-50%		0.397	P-value		0.238	Power	---		Power-50%		---	P-value		0.075
14.1C/14.1	2	6	0.83	0.83	6	2.50	1.12	-	-	0.260	6	43.33	17.36	6	27.50	10.86	-	+	0.511	6	38.33	15.90	6	37.08	13.93	-	+	1.000
14.2C/14.2	2	5	16.00	11.25	6	15.00	6.09	-	+	0.713	5	10.00	4.11	6	57.92	12.69	-	-	0.004	5	34.50	19.69	6	11.67	6.76	-	+	0.265
62762C/50983	2	6	5.00	1.94	4	11.87	6.88	-	-	0.608	6	62.50	12.52	4	55.00	16.93	-	+	0.645	6	17.92	6.87	4	30.00	21.14	-	-	0.630
Habitat Means			7.27	4.67		9.80	4.70		-			38.60	11.33		46.80	13.50		+			30.23	14.17		26.27	13.93		+	
Fisher's		Power	0.301		Power-50%		0.297	P-value		0.290	Power	0.036		Power-50%		0.706	P-value		0.543xy	Power	0.054		Power-50%		0.244	P-value		0.402
Stouffer's		Power	0.290		Power-50%		0.426	P-value		0.246	Power	0.002		Power-50%		0.770	P-value		0.538	Power	0.054		Power-50%		0.323	P-value		0.548
14.1C/14.1	3	5	6.00	5.40	6	0.00	0.00	-	+	0.255	5	21.00	19.77	6	5.42	3.12	-	+	0.506	5	42.00	16.61	6	25.83	5.83	-	+	0.576
14.2C/14.2	3	2	1.25	1.25	5	13.50	9.41	-	-	0.465	2	0.00	0.00	5	42.50	16.75	-	-	0.042	2	37.50	35.00	5	12.00	7.72	-	+	0.343
62762C/50983	3	5	1.50	1.00	5	5.50	3.57	-	-	0.504	5	46.00	16.25	5	32.00	11.97	-	+	0.420	5	7.50	3.54	5	54.50	10.50	-	-	0.002
Habitat Means			2.93	2.57		6.33	4.33		-			22.33	12.03		26.63	10.63		+			29.00	18.37		30.77	8.00		+	
Fisher's		Power	0.022		Power-50%		0.254	P-value		0.429	Power	0.015		Power-50%		0.054	P-value		0.433xy	Power	0.074		Power-50%		0.294	P-value		0.421xy
Stouffer's		Power	0.008		Power-50%		0.361	P-value		0.310	Power	0.001		Power-50%		0.082	P-value		0.365	Power	0.017		Power-50%		0.311	P-value		0.992

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.181. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Cleared August 1990. (Continued.)

Site Pair	Mwd	Annuals (A)								Ephemerals (AE)															
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.2C/14.2	1	6	35.83	17.14	5	10.50	6.73	-	+	0.211	6	9.58	7.68	5	7.00	4.29	-	-	0.874									
62762C/50983	1	5	9.50	9.50	6	0.00	0.00	-	+	0.374	5	9.50	9.50	6	0.00	0.00	-	+	0.374									
Habitat Means			15.10	8.87		8.33	4.23		+			6.37	5.73		2.33	1.43		+										
Fisher's		Power	0.036		Power-50%		0.015	P-value		0.247x	Power	0.009		Power-50%		0.013	P-value		0.380	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.002		Power-50%		0.022	P-value		0.288	Power	0.015		Power-50%		0.031	P-value		0.195	Power	---		Power-50%		---	P-value		
14.1C/14.1	2	6	17.50	14.52	6	32.92	14.37	-	-	0.311	6	0.00	0.00	6	0.42	0.42	-	-	0.363									
14.2C/14.2	2	5	39.50	17.83	6	15.42	6.17	-	+	0.235	5	1.50	1.50	6	3.33	2.20	-	-	0.587									
62762C/50983	2	6	14.58	6.04	4	3.13	3.13	-	+	0.124	6	2.50	2.04	4	3.13	3.13	-	-	0.973									
Habitat Means			23.87	12.77		17.13	7.90		+			1.33	1.17		2.27	1.90		-										
Fisher's		Power	0.152		Power-50%		0.302	P-value		0.117	Power	0.068		Power-50%		0.015	P-value		0.294	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.073	Power	0.146		Power-50%		0.037	P-value		0.328	Power	---		Power-50%		---	P-value		
14.1C/14.1	3	5	31.00	17.51	6	68.75	7.41	-	-	0.067	5	4.00	2.92	6	25.00	9.06	-	-	0.075									
14.2C/14.2	3	2	61.25	36.25	5	31.50	14.44	-	+	0.308	2	1.25	1.25	5	4.00	1.87	-	-	0.550									
62762C/50983	3	5	45.00	15.71	5	8.00	5.83	-	+	0.041	5	2.00	0.50	5	5.00	4.40	-	-	0.972									
Habitat Means			45.77	23.17		36.10	9.20		+			2.43	1.57		11.33	5.13		-										
Fisher's		Power	---		Power-50%		---	P-value		0.072x	Power	0.282		Power-50%		0.485	P-value		0.102	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.051	Power	0.328		Power-50%		0.536	P-value		0.239	Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.182. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Cleared August 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group: Bladed Greens								Bladed Greens (AE) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	8.33	7.84	5	7.00	4.29	-	+	0.910	6	8.33	7.84	5	0.00	0.00	-	+	0.272	6	8.33	7.84	5	0.00	0.00	-	+	0.272
62762C/50983	1	5	9.50	9.50	6	0.00	0.00	-	+	0.374	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			5.93	5.77		2.33	1.43		+			2.77	2.60		0.00	0.00		-			2.77	2.60		0.00	0.00		+	
Fisher's		Power	0.002		Power-50%		0.001	P-value		0.389	Power	0.000		Power-50%		0.000	P-value		0.344	Power	0.000		Power-50%		0.000	P-value		0.344
Stouffer's		Power	0.004		Power-50%		0.007	P-value		0.199	Power	0.000		Power-50%		0.000	P-value		0.377	Power	0.000		Power-50%		0.000	P-value		0.377
14.1C/14.1	2	6	0.42	0.42	6	0.42	0.42	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	5	2.00	2.00	6	3.33	2.20	-	-	0.669	5	1.50	1.50	6	2.08	2.08	-	-	0.956	5	1.50	1.50	6	2.08	2.08	-	-	0.956
62762C/50983	2	6	2.92	2.45	4	3.13	3.13	-	-	0.983	6	2.50	2.04	4	0.00	0.00	-	+	0.213	6	2.50	2.04	4	0.00	0.00	-	-	0.213
Habitat Means			1.77	1.63		2.27	1.90		-			1.33	1.17		0.70	0.70		-			1.33	1.17		0.70	0.70		+	
Fisher's		Power	0.022		Power-50%		0.099	P-value		0.544	Power	0.011		Power-50%		0.021	P-value		0.306	Power	0.008		Power-50%		0.011	P-value		0.306
Stouffer's		Power	0.054		Power-50%		0.274	P-value		0.444	Power	0.021		Power-50%		0.038	P-value		0.131	Power	0.017		Power-50%		0.029	P-value		0.131
14.1C/14.1	3	5	4.00	2.92	6	29.17	11.04	-	-	0.072	5	3.50	2.45	6	25.00	9.06	-	-	0.066	5	3.50	2.45	6	25.00	9.06	-	-	0.066
14.2C/14.2	3	2	2.50	0.00	5	4.50	2.00	-	-	0.933	2	1.25	1.25	5	4.00	1.87	-	-	0.550	2	1.25	1.25	5	4.00	1.87	-	-	0.550
62762C/50983	3	5	5.00	3.79	5	2.50	2.50	-	+	0.472	5	1.50	0.61	5	2.00	2.00	-	-	0.692	5	1.50	0.61	5	2.00	2.00	-	-	0.692
Habitat Means			3.83	2.23		12.07	5.17		-			2.10	1.47		10.33	4.33		-			2.10	1.47		10.33	4.33		-	
Fisher's		Power	0.162		Power-50%		0.567	P-value		0.191	Power	---		Power-50%		---	P-value		0.074	Power	---		Power-50%		---	P-value		0.074
Stouffer's		Power	0.145		Power-50%		0.637	P-value		0.548	Power	0.345		Power-50%		0.559	P-value		0.145	Power	0.342		Power-50%		0.532	P-value		0.145

(a) Kornmannia, Monostroma, Ulva and Ulvaria.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Fine Filamentous Greens								Acrosiphonia sp. (A)								Chaetomorpha/Rhizoclonium (A) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	1	5	9.50	9.50	6	0.00	0.00	-	+	0.374	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			3.17	3.17		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.409	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.208	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	0.42	0.42	6	0.42	0.42	-	o	1.000	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	5	0.50	0.50	6	0.00	0.00	-	-	0.374	5	0.50	0.50	6	0.00	0.00	-	+	0.374	5	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.42	0.42	4	3.13	3.13	-	-	0.440	6	0.42	0.42	4	0.00	0.00	-	+	0.363	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.43	0.43		1.17	1.17		+			0.43	0.43		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.514 y	Power	---		Power-50%		---	P-value		0.117	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power			Power-50%		---	P-value		0.674	Power	---		Power-50%		---	P-value		0.089	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	5	0.00	0.00	6	4.17	2.47	-	-	0.102	5	0.00	0.00	6	4.17	2.47	-	-	0.102	5	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	1.25	1.25	5	0.00	0.00	-	+	0.500	2	1.25	1.25	5	0.00	0.00	-	+	0.500	2	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	3	5	3.50	3.50	5	0.00	0.00	-	+	0.374	5	3.50	3.50	5	0.00	0.00	-	+	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			1.60	1.60		1.40	0.83		+			1.60	1.60		1.40	0.83		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.012		Power-50%		---	P-value		0.398	Power	0.011		Power-50%		---	P-value		0.398	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.001		Power-50%		---	P-value		0.295	Power	0.001		Power-50%		---	P-value		0.295	Power	---		Power-50%		---	P-value		0.500

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.182. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Cleared August 1990. (Continued.)

Site Pair	Mvd	Cladophora sp. (AE) N	C	SE	N	O	SE	CV	D	P	Ulothrix sp. (AE) N	C	SE	N	O	SE	CV	D	P	Urospora sp. (AE) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	9.50	9.50	6	0.00	0.00	-	+	0.374
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			3.17	3.17		0.00	0.00		·	
Fisher's		Power ---			Power-50%		---	P-value		0.655	Power ---			Power-50%		---	P-value		0.655	Power ---			Power-50%		---	P-value		0.409
Stouffer's		Power ---			Power-50%		---	P-value		0.500	Power ---			Power-50%		---	P-value		0.500	Power ---			Power-50%		---	P-value		0.208
14.1C/14.1	2	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	3.13	3.13	-	-	0.391
Habitat Means			0.00	0.00		0.13	0.13		-			0.00	0.00		0.00	0.00		o			0.00	0.00		1.03	1.03		-	
Fisher's		Power ---			Power-50%		---	P-value		0.403	Power ---			Power-50%		---	P-value		0.655	Power ---			Power-50%		---	P-value		0.419
Stouffer's		Power ---			Power-50%		---	P-value		0.398	Power ---			Power-50%		---	P-value		0.500	Power ---			Power-50%		---	P-value		0.216
14.1C/14.1	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50%		---	P-value		0.655	Power ---			Power-50%		---	P-value		0.655	Power ---			Power-50%		---	P-value		0.655
Stouffer's		Power ---			Power-50%		---	P-value		0.500	Power ---			Power-50%		---	P-value		0.500	Power ---			Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Morphological Group: Tubular and Saccate Greens N	C	SE	N	O	SE	CV	D	P	Blidingia/Enteromorpha (AE) (a) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000									
14.2C/14.2	1	6	0.00	0.00	5	7.00	4.29	-	-	0.178	6	0.00	0.00	5	7.00	4.29	-	-	0.178									
62762C/50983	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		2.33	1.43		-			0.00	0.00		2.33	1.43		-										
Fisher's		Power 0.000			Power-50%		---	P-value		0.268	Power 0.000			Power-50%		---	P-value		0.268	Power ---			Power-50%		---	P-value		
Stouffer's		Power 0.000			Power-50%		---	P-value		0.350	Power 0.000			Power-50%		---	P-value		0.350	Power ---			Power-50%		---	P-value		
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
14.2C/14.2	2	5	0.00	0.00	6	1.25	1.25	-	-	0.363	5	0.00	0.00	6	1.25	1.25	-	-	0.363									
62762C/50983	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.43	0.43		-			0.00	0.00		0.43	0.43		-										
Fisher's		Power ---			Power-50%		---	P-value		0.403	Power ---			Power-50%		---	P-value		0.403	Power ---			Power-50%		---	P-value		
Stouffer's		Power ---			Power-50%		---	P-value		0.398	Power ---			Power-50%		---	P-value		0.398	Power ---			Power-50%		---	P-value		
14.1C/14.1	3	5	0.50	0.50	6	0.00	0.00	-	+	0.374	5	0.50	0.50	6	0.00	0.00	-	+	0.374									
14.2C/14.2	3	2	0.00	0.00	5	0.50	0.50	-	-	0.374	2	0.00	0.00	5	0.00	0.00	-	o	1.000									
62762C/50983	3	5	0.00	0.00	5	0.50	0.50	-	-	0.374	5	0.00	0.00	5	0.50	0.50	-	-	0.374									
Habitat Means			0.17	0.17		0.33	0.33		-			0.17	0.17		0.17	0.17		+										
Fisher's		Power ---			Power-50%		---	P-value		0.310	Power ---			Power-50%		---	P-value		0.524 y	Power ---			Power-50%		---	P-value		
Stouffer's		Power ---			Power-50%		---	P-value		0.208	Power ---			Power-50%		---	P-value		0.712	Power ---			Power-50%		---	P-value		

(a) Genera not separated.

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.183. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Cleared August 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group: Bladed Browns								Alaria sp. (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	5	16.00	10.51	5	24.50	12.26	-	-	0.645	5	16.00	10.51	5	24.50	12.26	-	-	0.645	5	0.00	0.00	5	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	25.00	15.88	5	0.00	0.00	-	+	0.116	6	25.00	15.88	5	0.00	0.00	-	+	0.116	6	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	1	5	6.00	3.67	6	1.25	0.85	-	+	0.363	5	6.00	3.67	6	1.25	0.85	-	+	0.363	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			15.67	10.03		8.60	4.40		+			15.67	10.03		8.60	4.40		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.256		Power-50%		0.247	P-value		0.129	Power	0.254		Power-50%		0.271	P-value		0.129	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.240		Power-50%		0.376	P-value		0.125	Power	0.243		Power-50%		0.397	P-value		0.125	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	14.58	9.67	6	26.25	16.53	-	-	0.596	6	13.33	8.82	6	26.25	16.53	-	-	0.559	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	5	27.00	19.06	6	0.83	0.83	-	+	0.187	5	27.00	19.06	6	0.83	0.83	-	+	0.187	5	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	2	6	10.42	2.69	4	30.00	21.14	-	-	0.383	6	10.42	2.69	4	30.00	21.14	-	-	0.383	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			17.33	10.50		19.03	12.80		-			16.90	10.20		19.03	12.80		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.024		Power-50%		0.325	P-value		0.432	Power	0.029		Power-50%		0.307	P-value		0.417	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.007		Power-50%		0.463	P-value		0.283	Power	0.010		Power-50%		0.451	P-value		0.278	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	5	24.50	15.26	6	17.92	13.61	-	+	0.827	5	24.00	15.44	6	17.92	13.61	-	+	0.916	5	15.00	15.00	6	15.83	13.85	-	-	0.788
14.2C/14.2	3	2	11.25	1.25	5	13.00	9.27	-	-	0.708	2	11.25	1.25	5	13.00	9.27	-	-	0.708	2	11.25	1.25	5	4.00	2.92	-	+	0.172
62762C/50983	3	5	32.00	11.84	5	57.00	11.66	-	-	0.151	5	31.50	11.64	5	54.50	10.50	-	-	0.162	5	27.00	10.53	5	0.00	0.00	-	+	0.035
Habitat Means			22.60	9.47		29.30	11.53		-			22.27	9.43		28.47	11.13		-			17.77	8.93		6.60	5.60		+	
Fisher's		Power	0.042		Power-50%		0.477	P-value		0.216	Power	0.078		Power-50%		0.770	P-value		0.215	Power	---		Power-50%		---	P-value		0.030
Stouffer's		Power	---		Power-50%		---	P-value		0.087	Power	---		Power-50%		---	P-value		0.088	Power	---		Power-50%		---	P-value		0.012

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Fucus gardneri (P)								Adult Fucus gardneri (P) (> 2cm)								Juvenile Fucus gardneri (P) (<= 2cm)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	5	16.00	10.51	5	24.50	12.26	-	-	0.645	5	14.50	10.32	5	24.00	12.11	-	-	0.523	5	1.50	1.00	5	0.50	0.50	-	-	0.457
14.2C/14.2	1	6	25.00	15.88	5	0.00	0.00	-	-	0.116	6	24.17	16.11	5	0.00	0.00	-	+	0.159	6	0.83	0.83	5	0.00	0.00	-	-	0.363
62762C/50983	1	5	6.00	3.67	6	1.25	0.85	-	-	0.363	5	6.00	3.67	6	0.83	0.83	-	+	0.243	5	0.00	0.00	6	0.42	0.42	-	-	0.363
Habitat Means			15.67	10.03		8.60	4.40		+			14.90	10.03		8.27	4.30		-			0.77	0.60		0.30	0.30		-	
Fisher's		Power	0.266		Power-50%		0.276	P-value		0.129	Power	0.151		Power-50%		0.266	P-value		0.129	Power	0.030		Power-50%		0.065	P-value		0.343
Stouffer's		Power	0.250		Power-50%		0.395	P-value		0.125	Power	---		Power-50%		---	P-value		0.099	Power	0.024		Power-50%		0.098	P-value		0.641
14.1C/14.1	2	6	13.33	8.82	6	26.25	16.53	-	-	0.559	6	13.33	8.82	6	25.83	16.21	-	-	0.569	6	0.00	0.00	6	0.42	0.42	-	-	0.363
14.2C/14.2	2	5	27.00	19.06	6	0.83	0.83	-	+	0.187	5	26.50	19.23	6	0.83	0.83	-	-	0.227	5	0.50	0.50	6	0.00	0.00	-	-	0.374
62762C/50983	2	6	10.42	2.69	4	30.00	21.14	-	-	0.383	6	9.58	2.53	4	30.00	21.14	-	-	0.355	6	0.83	0.53	4	0.00	0.00	-	-	0.175
Habitat Means			16.90	10.20		19.03	12.80		-			16.47	10.17		18.87	12.70		-			0.43	0.33		0.13	0.13		-	
Fisher's		Power	0.023		Power-50%		0.329	P-value		0.417	Power	0.031		Power-50%		0.339	P-value		0.399	Power	0.082		Power-50%		0.135	P-value		0.196
Stouffer's		Power	0.005		Power-50%		0.439	P-value		0.278	Power	0.012		Power-50%		0.479	P-value		0.253	Power	0.054		Power-50%		0.141	P-value		0.108
14.1C/14.1	3	5	9.00	9.00	6	2.08	1.64	-	+	0.657	5	9.00	9.00	6	2.08	1.64	-	+	0.657	5	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	0.00	0.00	5	9.00	6.35	-	-	0.196	2	0.00	0.00	5	9.00	6.35	-	-	0.196	2	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	3	5	4.50	3.91	5	54.50	10.50	-	-	0.001	5	4.00	3.41	5	54.50	10.50	-	-	0.001	5	0.50	0.50	5	0.00	0.00	-	-	0.374
Habitat Means			4.50	4.30		21.87	6.17		-			4.33	4.13		21.87	6.17		-			0.17	0.17		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.002	Power	---		Power-50%		---	P-value		0.002	Power	---		Power-50%		---	P-value		0.409
Stouffer's		Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.208

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.183. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Cleared August 1990. (Continued.)

Site Pair	Mvd	Fucus Stipes (P) (a) N	C	SE	N	O	SE	CV	D	P	Petalonia/Punctaria (AE) (b) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Coarse Filamentous Browns N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.42	0.42	6	0.00	0.00	-	+	0.363
14.2C/14.2	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.13	0.13		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.398
14.1C/14.1	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	0.00	0.00	5	0.50	0.50	-	-	0.374	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.17	0.17		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.409	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.400	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

(a) Dead Fucus plants or stipes without blades.
(b) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Analipus japonicus (P) N	-	--	-	-	--	---	-	-	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.13	0.13		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.398	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.50	0.50	5	2.50	1.94	-	-	0.395
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.17	0.17		0.83	0.63		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	0.003		Power-50%		---	P-value		0.422
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	0.001		Power-50%		---	P-value		0.218

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.183. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Cleared August 1990. (Continued.)

Site Pair	Mvd	Fine Filamentous Browns (AE) (b) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Saccate Browns N	C	SE	N	O	SE	CV	D	P	Leathesia/Colpomenia (A) (a) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.83	0.83	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.27	0.27		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.398	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	3	5	0.50	0.50	5	2.50	1.94	-	-	0.395	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.17	0.17		0.83	0.63		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.003		Power-50%		---	P-value		0.422	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.001		Power-50%		---	P-value		0.218	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

(b) Elachista, Ectocarpus and Pilayella.

(a) Genera not separated.
x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Soranthera ulvoidea (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Crustose Browns N	C	SE	N	O	SE	CV	D	P	Ralfsia/Petroderma (P) (a) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	0.83	0.83	6	0.00	0.00	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.27	0.27		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.398	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.50	0.50	6	0.00	0.00	-	+	0.374	5	0.50	0.50	6	0.00	0.00	-	+	0.374
14.2C/14.2	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.17	0.17		0.00	0.00		+			0.17	0.17		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.409	Power	---		Power-50%		---	P-value		0.409
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.400	Power	---		Power-50%		---	P-value		0.400

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.184. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Cleared August 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group: Bladed Reds								Bangia sp. (AE)							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
14.1C/14.1	1	5	5.50	5.50	5	23.00	8.78	-	-	0.057	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	32.50	14.10	5	6.00	3.22	-	+	0.137	6	25.83	14.18	5	2.00	1.46	-	+	0.139	6	1.25	1.25	5	0.00	0.00	-	+	0.363
62762C/50983	1	5	0.50	0.50	6	0.00	0.00	-	+	0.374	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			12.83	6.70		9.67	4.00		-			8.60	4.73		0.67	0.50		+			0.43	0.43		0.00	0.00		+	
Fisher's		Power	0.066		Power-50%		0.083	P-value		0.187x	Power	0.061		Power-50%		0.012	P-value		0.230	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	0.054		Power-50%		0.192	P-value		0.244	Power	0.019		Power-50%		0.003	P-value		0.336	Power	---		Power-50%		---	P-value		0.398
14.1C/14.1	2	6	40.83	14.70	6	43.33	14.17	-	-	0.880	6	15.00	14.51	6	11.67	5.54	-	+	0.783	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	5	45.00	16.90	6	22.92	8.30	-	+	0.280	5	40.50	17.77	6	12.08	6.69	-	+	0.149	5	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	2	6	19.17	9.10	4	0.00	0.00	-	+	0.029	6	7.50	3.76	4	0.00	0.00	-	+	0.051	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			35.00	13.57		22.07	7.50		+			21.00	12.03		7.93	4.07		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.035	Power	---		Power-50%		---	P-value		0.025	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.012	Power	---		Power-50%		---	P-value		0.011	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	5	44.50	16.91	6	47.50	11.78	-	-	0.769	5	4.50	1.84	6	28.33	7.63	-	-	0.009	5	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	85.00	2.50	5	26.00	12.19	-	+	0.043	2	70.00	17.50	5	18.50	8.72	-	+	0.060	2	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	3	5	15.50	5.02	5	3.00	1.84	-	+	0.023	5	8.50	4.78	5	0.50	0.50	-	+	0.130	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			48.33	8.13		25.50	8.60		-			27.67	8.03		15.77	5.60		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.007	Power	---		Power-50%		---	P-value		0.052x	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.005	Power	0.056		Power-50%		0.656	P-value		0.121	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Gigartinaceae Group (P) (a)								Palmaria spp. (A)								Phycodrys riggii (A)							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
14.1C/14.1	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	1.25	0.85	5	0.00	0.00	-	+	0.183	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.43	0.30		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.010		Power-50%		0.011	P-value		0.272	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.001		Power-50%		0.000	P-value		0.352	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	0.00	0.00	6	1.25	1.25	-	-	0.363	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	5	3.50	3.50	6	5.83	5.35	-	-	0.766	5	2.50	2.50	6	0.42	0.42	-	+	0.538	5	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.42	0.42	4	0.00	0.00	-	+	0.363	6	6.67	3.69	4	0.00	0.00	-	+	0.060	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			1.30	1.30		2.37	2.23		-			3.07	2.07		0.27	0.27		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.001		Power-50%		---	P-value		0.454	Power	0.083		Power-50%		0.016	P-value		0.123	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.001		Power-50%		---	P-value		0.687	Power	---		Power-50%		---	P-value		0.051	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	5	1.50	1.00	6	11.25	4.55	-	-	0.024	5	2.00	2.00	6	2.08	2.08	-	-	0.964	5	0.50	0.50	6	0.00	0.00	-	+	0.374
14.2C/14.2	3	2	22.50	20.00	5	0.50	0.50	-	+	0.049	2	1.25	1.25	5	5.00	3.16	-	-	0.694	2	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	3	5	0.50	0.50	5	0.00	0.00	-	+	0.374	5	5.50	2.89	5	0.50	0.50	-	+	0.135	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			8.17	7.17		3.93	1.70		-			2.93	2.07		2.53	1.93		-			0.17	0.17		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.094x	Power	0.003		Power-50%		0.227	P-value		0.715 y	Power	---		Power-50%		---	P-value		0.409
Stouffer's		Power	0.086		Power-50%		0.478	P-value		0.232	Power	0.002		Power-50%		0.307	P-value		0.893	Power	---		Power-50%		---	P-value		0.400

(a) Chondrus, Iridaea, Mastocarpus and Rhodogloeum.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.184. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Cleared August 1990. (Continued.)

Site Pair	Mvd	Porphyra sp. (A) N	C	SE	N	O	SE	CV	D	P	Tokidadendron kurilensis (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Coarse Filamentous Reds N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	1.00	1.00	5	17.50	6.75	-	-	0.009
14.2C/14.2	1	6	23.33	13.10	5	2.00	1.46	-	+	0.146	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	5.42	2.18	5	1.50	1.50	-	+	0.170
62762C/50983	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.50	0.50	6	0.00	0.00	-	+	0.374
Habitat Means			7.77	4.37		0.67	0.50		+			0.00	0.00		0.00	0.00		o			2.30	1.23		6.33	2.77		+	
Fisher's		Power	0.049		Power-50%		0.012	P-value		0.238	Power	---		Power-50%		---	P-value		0.655	Power	0.048		Power-50%		0.205	P-value		0.217xy
Stouffer's		Power	0.015		Power-50%		0.003	P-value		0.339	Power	---		Power-50%		---	P-value		0.500	Power	0.004		Power-50%		0.307	P-value		0.322
14.1C/14.1	2	6	15.00	14.51	6	10.00	5.20	-	+	0.929	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	9.17	6.76	6	22.08	15.68	-	-	0.384
14.2C/14.2	2	5	34.50	19.39	6	5.83	4.41	-	+	0.149	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	4.50	2.78	6	10.00	5.20	-	-	0.420
62762C/50983	2	6	0.42	0.42	4	0.00	0.00	-	+	0.363	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	7.50	5.63	4	0.00	0.00	-	+	0.141
Habitat Means			16.63	11.43		5.27	3.20		+			0.00	0.00		0.00	0.00		o			7.07	5.07		10.70	6.97		-	
Fisher's		Power	0.092		Power-50%		0.108	P-value		0.119	Power	---		Power-50%		---	P-value		0.655	Power	0.061		Power-50%		0.329	P-value		0.362
Stouffer's		Power	0.134		Power-50%		0.267	P-value		0.102	Power	---		Power-50%		---	P-value		0.500	Power	0.011		Power-50%		0.474	P-value		0.807
14.1C/14.1	3	5	0.00	0.00	6	12.08	8.07	-	-	0.124	5	0.50	0.50	6	2.92	1.36	-	-	0.214	5	17.00	14.08	6	11.25	4.91	-	-	0.940
14.2C/14.2	3	2	41.25	41.25	5	10.00	6.57	-	+	0.375	2	5.00	5.00	5	3.00	3.00	-	+	0.629	2	15.00	15.00	5	3.00	1.84	-	-	0.417
62762C/50983	3	5	2.50	1.58	5	0.00	0.00	-	+	0.181	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			14.60	14.30		7.37	4.90		+			1.83	1.83		1.97	1.47		-			10.67	9.70		4.77	2.23		-	
Fisher's		Power	0.149		Power-50%		0.208	P-value		0.218	Power	0.113		Power-50%		---	P-value		0.358	Power	0.134		Power-50%		0.091	P-value		0.420
Stouffer's		Power	0.044		Power-50%		0.216	P-value		0.150	Power	0.077		Power-50%		---	P-value		0.414	Power	0.118		Power-50%		0.113	P-value		0.400

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Articulate Coralline Algae (A) N	C	SE	N	O	SE	CV	D	P	*Cryptosiphonia woodii* (A) N	C	SE	N	O	SE	CV	D	P	*Endocladia muricata* (P) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	3.00	2.42	-	-	0.218
14.2C/14.2	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	2.50	1.58	5	0.00	0.00	-	-	0.175
62762C/50983	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.50	0.50	6	0.00	0.00	-	-	0.374
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			1.00	0.70		1.00	0.80		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	0.013		Power-50%		0.146	P-value		0.206 y
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	0.005		Power-50%		0.139	P-value		0.198
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	1.67	1.67	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	1.50	1.50	6	4.17	4.17	-	-	0.777
62762C/50983	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.42	0.42	4	0.00	0.00	-	+	0.363	6	0.42	0.42	4	0.00	0.00	-	+	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.13	0.13		0.57	0.57		-			0.63	0.63		1.40	1.40		+	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.519	Power	---		Power-50%		---	P-value		0.448 y
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.717	Power	---		Power-50%		---	P-value		0.226
14.1C/14.1	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	2.00	2.00	6	4.58	2.62	-	-	0.429	5	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.50	0.50	-	-	0.374	2	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.67	0.67		1.70	1.03		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.033		Power-50%		---	P-value		0.252	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.055		Power-50%		---	P-value		0.316	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.184. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Cleared August 1990. (Continued.)

		Gloiopeltis furcata (A)								Microcladia borealis (A)								Neorhodomela/Rhodomela (P) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	5	0.00	0.00	5	14.50	6.04	-	-	0.032	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	1.00	1.00	5	0.00	0.00	-	+	0.374
14.2C/14.2	1	6	2.92	1.98	5	1.50	1.50	-	+	0.501	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.97	0.67		5.33	2.50		-			0.00	0.00		0.00	0.00		o			0.33	0.33		0.00	0.00		+	
Fisher's		Power	0.120		Power-50%		0.005	P-value		0.115	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.409
Stouffer's		Power	0.088		Power-50%		0.002	P-value		0.338	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.400
14.1C/14.1	2	6	0.42	0.42	6	20.42	16.03	-	-	0.189	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.25	1.25	6	0.00	0.00	-	-	0.363
14.2C/14.2	2	5	0.50	0.50	6	5.83	2.64	-	-	0.077	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	5.83	5.83	4	0.00	0.00	-	-	0.363
Habitat Means			0.30	0.30		8.73	6.20		-			0.00	0.00		0.00	0.00		o			2.37	2.37		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.050	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.223
Stouffer's		Power	0.523		Power-50%		---	P-value		0.190	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.138
14.1C/14.1	3	5	0.00	0.00	6	0.83	0.83	-	-	0.363	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	8.00	8.00	6	0.00	0.00	-	+	0.374
14.2C/14.2	3	2	0.00	0.00	5	0.50	0.50	-	-	0.374	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.43	0.43		-			0.00	0.00		0.00	0.00		o			2.67	2.67		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.227	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.409
										0.304									0.500									0.400

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Odonthalia floccosa (P)								Ptilota/Neoptilota (P) (b)								Morphological Group: Saccate Reds							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	7.08	6.60	6	0.00	0.00	-	+	0.264	6	0.42	0.42	6	0.00	0.00	-	-	0.363	6	0.42	0.42	6	0.00	0.00	-	+	0.363
14.2C/14.2	2	5	2.50	2.50	6	0.00	0.00	-	+	0.374	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.83	0.83	4	0.00	0.00	-	+	0.363	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	4.17	1.79	4	0.00	0.00	-	-	0.014
Habitat Means			3.47	3.30		0.00	0.00		+			0.13	0.13		0.00	0.00		+			1.53	0.73		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.094	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.023
Stouffer's		Power	---		Power-50%		---	P-value		0.080	Power	---		Power-50%		---	P-value		0.398	Power	---		Power-50%		---	P-value		0.006
14.1C/14.1	3	5	7.00	6.39	6	2.08	2.08	-	+	0.477	5	0.00	0.00	6	3.75	2.39	-	-	0.107	5	1.50	1.00	6	1.25	1.25	-	+	0.659
14.2C/14.2	3	2	15.00	15.00	5	2.00	1.46	-	+	0.312	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	3.00	2.42	5	2.50	1.58	-	+	0.972
Habitat Means			7.33	7.13		1.37	1.20		-			0.00	0.00		1.27	0.80		-			1.50	1.13		1.27	0.97		+	
Fisher's		Power	0.104		Power-50%		0.070	P-value		0.241	Power	0.014		Power-50%		---	P-value		0.196	Power	0.018		Power-50%		0.080	P-value		0.538
										0.312		0.003							0.323		0.024				0.135	P-value		0.437

(b) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.184. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Cleared August 1990. (Continued.)

		Halosaccion glandiforme (A)									Halosaccion spp. (A)										Morphological Group: Fine Filamentous Reds									
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
14.1C/14.1	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000		5	0.00	0.00	5	0.00	0.00	-	o	1.000	
14.2C/14.2	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000		6	0.00	0.00	5	0.00	0.00	-	o	1.000	
62762C/50983	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000		5	0.00	0.00	6	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.655		Power	---		Power-50%	---	P-value			0.655	
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500		Power	---		Power-50%	---	P-value			0.500	
14.1C/14.1	2	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
14.2C/14.2	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000		5	0.00	0.00	6	0.00	0.00	-	o	1.000	
62762C/50983	2	6	4.17	1.79	4	0.00	0.00	-	+	0.014	6	0.00	0.00	4	0.00	0.00	-	o	1.000		6	0.00	0.00	4	0.00	0.00	-	o	1.000	
Habitat Means			1.53	0.73		0.00	0.00		+			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%	---	P-value			0.023	Power	---		Power-50%	---	P-value			0.655		Power	---		Power-50%	---	P-value			0.655	
Stouffer's		Power	---		Power-50%	---	P-value			0.006	Power	---		Power-50%	---	P-value			0.500		Power	---		Power-50%	---	P-value			0.500	
14.1C/14.1	3	5	1.50	1.00	6	1.25	1.25	-	+	0.659	5	0.00	0.00	6	0.00	0.00	-	o	1.000		5	5.50	4.36	6	0.00	0.00	-	+	0.215	
14.2C/14.2	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000		2	0.00	0.00	5	4.00	3.41	-	-	0.234	
62762C/50983	3	5	3.00	2.42	5	2.50	1.58	-	+	0.972	5	0.00	0.00	5	0.00	0.00	-	o	1.000		5	1.50	1.00	5	0.00	0.00	-	+	0.186	
Habitat Means			1.50	1.13		1.27	0.97		+			0.00	0.00		0.00	0.00		o				2.33	1.80		2.33	1.13		+		
Fisher's		Power	0.018		Power-50%	0.073	P-value			0.538	Power	---		Power-50%	---	P-value			0.655		Power	0.031		Power-50%	0.087	P-value			0.150	
Stouffer's		Power	0.024		Power-50%	0.130	P-value			0.437	Power	---		Power-50%	---	P-value			0.500		Power	0.013		Power-50%	0.151	P-value			0.111	

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall.
z Only one site pair.

		Callithamnion pikeanum (A)									Polysiphonia/Pterosiphonia (A) (a)										Morphological Group: Crustose Reds									
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
14.1C/14.1	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000		5	4.50	4.50	5	5.50	3.57	-	-	0.714	
14.2C/14.2	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000		6	1.25	1.25	5	2.50	2.50	-	-	0.761	
62762C/50983	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000		5	0.00	0.00	6	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o				1.93	1.93		2.67	2.03		-		
Fisher's		Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.655		Power	0.024		Power-50%	---	P-value			0.496	
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500		Power	0.031		Power-50%	---	P-value			0.424	
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	16.25	8.29	6	9.58	4.35	-	-	0.524	
14.2C/14.2	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000		5	0.00	0.00	6	0.83	0.83	-	-	0.363	
62762C/50983	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000		6	0.00	0.00	4	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o				5.43	2.77		3.47	1.73		-		
Fisher's		Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.655		Power	0.005		Power-50%	0.014	P-value			0.493	y
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500		Power	0.008		Power-50%	0.003	P-value			0.469	
14.1C/14.1	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	5.50	4.36	6	0.00	0.00	-	+	0.215		5	16.00	12.39	6	6.67	4.46	-	+	0.519	
14.2C/14.2	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	4.00	3.41	-	-	0.234		2	0.00	0.00	5	0.50	0.50	-	-	0.374	
62762C/50983	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	1.50	1.00	5	0.00	0.00	-	+	0.186		5	2.50	1.94	5	0.00	0.00	-	+	0.209	
Habitat Means			0.00	0.00		0.00	0.00		o			2.33	1.80		1.33	1.13		-				6.17	4.77		2.40	1.67		-		
Fisher's		Power	---		Power-50%	---	P-value			0.655	Power	0.034		Power-50%	0.087	P-value			0.150		Power	0.050		Power-50%	0.087	P-value			0.266	
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	0.016		Power-50%	0.140	P-value			0.111		Power	0.045		Power-50%	0.120	P-value			0.140	

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.184. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Cleared August 1990. (Continued.)

		Crustose Coralline Algae (P)									Hildenbrandia sp. (P)									Petrocelis (P)								
Site Pair	Nvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	4.50	4.50	5	5.50	3.57	-	-	0.714	5	0.00	0.00	5	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	1.25	1.25	5	2.50	2.50	-	-	0.761	6	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			1.93	1.93		2.67	2.03		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.655	Power	0.021		Power-50%	---	P-value			0.496	Power	---		Power-50%	---	P-value			0.655
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	0.028		Power-50%	---	P-value			0.424	Power	---		Power-50%	---	P-value			0.500
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	16.25	8.29	6	9.58	4.35	-	+	0.524	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.83	0.83	-	-	0.363	5	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			5.43	2.77		3.47	1.73		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.655	Power	0.003		Power-50%	0.011	P-value			0.493 y	Power	---		Power-50%	---	P-value			0.655
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	0.006		Power-50%	0.002	P-value			0.469	Power	---		Power-50%	---	P-value			0.500
14.1C/14.1	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	16.00	12.39	6	6.67	4.46	-	-	0.519	5	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.50	0.50	-	-	0.374
62762C/50983	3	5	2.50	1.94	5	0.00	0.00	-	-	0.209	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.83	0.63		0.00	0.00		+			5.33	4.13		2.23	1.50		+			0.00	0.00		0.17	0.17		-	
Fisher's		Power	0.002		Power-50%	0.003	P-value			0.295	Power	0.006		Power-50%	0.012	P-value			0.485	Power	---		Power-50%	---	P-value			0.409
Stouffer's		Power	0.000		Power-50%	0.001	P-value			0.125	Power	0.002		Power-50%	0.003	P-value			0.427	Power	---		Power-50%	---	P-value			0.400

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.185. Algal Percent Cover. Invertebrates. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Cleared August 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Actiniidae							Balanomorpha							Polyplacophora						
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE
14.1C/14.1	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	6.00	3.76	-	-	0.180	5	0.00	0.00
14.2C/14.2	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	12.50	12.01	5	15.00	9.12	-	-	0.671	6	0.00	0.00
62762C/50983	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	6.50	4.85	6	4.17	1.54	-	+	0.864	5	0.00	0.00
Habitat Means			0.00	0.00		0.00	0.00		o			6.33	5.63		8.40	4.80		-			0.00	0.00
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.189		Power-50%		0.028	P-value		0.229	Power	---	
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.252		Power-50%		0.050	P-value		0.364	Power	---	
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.83	0.83	6	2.08	1.00	-	-	0.309	6	0.00	0.00
14.2C/14.2	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	13.00	10.68	6	12.92	5.61	-	+	0.672	5	0.00	0.00
62762C/50983	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	4.58	2.08	4	9.38	5.63	-	-	0.619	6	0.00	0.00
Habitat Means			0.00	0.00		0.00	0.00		o			6.13	4.53		8.13	4.07		-			0.00	0.00
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.230		Power-50%		0.257	P-value		0.330	Power	---	
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.242		Power-50%		0.394	P-value		0.266	Power	---	
14.1C/14.1	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	6.00	5.40	6	0.00	0.00	-	+	0.255	5	0.00	0.00
14.2C/14.2	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	11.00	8.01	-	-	0.135	2	0.00	0.00
62762C/50983	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	1.50	1.00	5	4.50	3.39	-	-	0.598	5	0.00	0.00
Habitat Means			0.00	0.00		0.00	0.00		o			2.50	2.13		5.17	3.80		-			0.00	0.00
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.045		Power-50%		0.049	P-value		0.233	Power	---	
											Power	0.013		Power-50%		0.080	P-value		0.280	Power	---	

		Polyplacophora						
Site Pair	Mvd	O	SE	CV	D	P		
14.1C/14.1	1	0.00	0.00	-	o	1.000		
14.2C/14.2	1	0.00	0.00	-	o	1.000		
62762C/50983	1	0.00	0.00	-	o	1.000		
Habitat Means		0.00	0.00		o			
Fisher's		Power-50%		---	P-value		0.655	
Stouffer's		Power-50%		---	P-value		0.500	
14.1C/14.1	2	0.00	0.00	-	o	1.000		
14.2C/14.2	2	0.00	0.00	-	o	1.000		
62762C/50983	2	0.00	0.00	-	o	1.000		
Habitat Means		0.00	0.00		o			
Fisher's		Power-50%		---	P-value		0.655	
Stouffer's		Power-50%		---	P-value		0.500	
14.1C/14.1	3	0.00	0.00	-	o	1.000		
14.2C/14.2	3	0.00	0.00	-	o	1.000		
62762C/50983	3	0.00	0.00	-	o	1.000		
Habitat Means		0.00	0.00		o			
Fisher's		Power-50%		---	P-value		0.655	
		Power-50%		---	P-value		0.500	

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Lottiidae							Mytilus							Nucella lamellosa						
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE
14.1C/14.1	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00
14.2C/14.2	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.42	0.42	5	0.00	0.00	-	+	0.363	6	0.00	0.00
62762C/50983	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.50	0.50	6	0.00	0.00	-	+	0.374	5	0.00	0.00
Habitat Means			0.00	0.00		0.00	0.00		o			0.30	0.30		0.00	0.00		y			0.00	0.00
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.227	Power	---	
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.142	Power	---	
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00
14.2C/14.2	2	5	0.00	0.00	6	0.83	0.83	-	-	0.363	5	3.00	2.42	6	0.00	0.00	-	+	0.218	5	0.00	0.00
62762C/50983	2	6	0.42	0.42	4	0.00	0.00	-	-	0.363	6	0.00	0.00	4	2.50	1.77	-	-	0.204	6	0.00	0.00
Habitat Means			0.13	0.13		0.27	0.27		-			1.00	0.80		0.83	0.60		-			0.00	0.00
Fisher's		Power	---		Power-50%		---	P-value		0.519	Power	0.004		Power-50%		0.004	P-value		0.403 y	Power	---	
Stouffer's		Power	---		Power-50%		---	P-value		0.717	Power	0.000		Power-50%		0.000	P-value		0.209	Power	---	
14.1C/14.1	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00
14.2C/14.2	3	2	0.00	0.00	5	1.50	1.00	-	-	0.186	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00
62762C/50983	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	1.00	1.00	-	-	0.374	5	0.00	0.00
Habitat Means			0.00	0.00		0.50	0.33		-			0.00	0.00		0.33	0.33		-			0.00	0.00
Fisher's		Power	0.007		Power-50%		---	P-value		0.275	Power	---		Power-50%		---	P-value		0.409	Power	---	
Stouffer's		Power	0.003		Power-50%		---	P-value		0.353	Power	---		Power-50%		---	P-value		0.208	Power	---	

		Nucella lamellosa						
Site Pair	Mvd	O	SE	CV	D	P		
14.1C/14.1	1	0.00	0.00	-	o	1.000		
14.2C/14.2	1	0.00	0.00	-	o	1.000		
62762C/50983	1	0.00	0.00	-	o	1.000		
Habitat Means		0.00	0.00		o			
Fisher's		Power-50%		---	P-value		0.655	
Stouffer's		Power-50%		---	P-value		0.500	
14.1C/14.1	2	0.00	0.00	-	o	1.000		
14.2C/14.2	2	0.00	0.00	-	o	1.000		
62762C/50983	2	0.00	0.00	-	o	1.000		
Habitat Means		0.00	0.00		o			
Fisher's		Power-50%		---	P-value		0.655	
Stouffer's		Power-50%		---	P-value		0.500	
14.1C/14.1	3	0.00	0.00	-	o	1.000		
14.2C/14.2	3	0.00	0.00	-	o	1.000		
62762C/50983	3	0.00	0.00	-	o	1.000		
Habitat Means		0.00	0.00		o			
Fisher's		Power-50%		---	P-value		0.655	
Stouffer's		Power-50%		---	P-value		0.500	

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.185. Algal Percent Cover. Invertebrates. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Cleared August 1990. (Continued.)

		Littorinidae								Porifera								Cnideria							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.42	0.42	5	0.50	0.50	-	-	0.900	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	1	5	0.00	0.00	6	0.83	0.83	-	-	0.363	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.13	0.13		0.43	0.43		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.380	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.193	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	5	0.00	0.00	6	1.25	0.56	-	-	0.076	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.57	0.33		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.078	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.337		Power-50%		---	P-value		0.222	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	0.00	0.00	5	1.00	1.00	-	-	0.374	2	1.25	1.25	5	0.00	0.00	-	-	0.500	2	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.33	0.33		-			0.43	0.43		0.00	0.00					0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.409	Power	---		Power-50%		---	P-value		0.476	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.400	Power	---		Power-50%		---	P-value		0.424	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.186. Algal Percent Cover. Substrates. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Cleared August 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Rock								Oiled Rock								Mud							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
14.1C/14.1	1	5	78.50	15.96	5	46.50	10.02	-	+	0.099	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	19.58	16.19	5	71.50	15.58	-	-	0.055	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	1	5	77.00	14.30	6	93.75	1.91	-	-	0.488	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			58.37	15.50		70.60	9.17		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.535		Power-50%		0.319	P-value		0.119x	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.309		Power-50%		0.402	P-value		0.238	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	43.33	17.36	6	27.50	10.86	-	+	0.511	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	5	10.00	4.11	6	57.92	12.69	-	-	0.014	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	2	6	62.50	12.52	4	55.00	16.93	-	+	0.645	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			38.60	11.33		46.80	13.50		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.038		Power-50%		0.698	P-value		0.543xy	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.003		Power-50%		0.751	P-value		0.538	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	5	21.00	19.77	6	5.42	3.12	-	+	0.506	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	0.00	0.00	5	42.50	16.75	-	-	0.042	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	3	5	46.00	16.25	5	32.00	11.97	-	+	0.420	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			22.33	12.03		26.63	10.63		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.020		Power-50%		0.059	P-value		0.433xy	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.002		Power-50%		0.097	P-value		0.365	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Sand								*Shell Fragments*								Filamentous Diatoms							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
14.1C/14.1	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	1.25	1.25	5	0.00	0.00	-	+	0.363	6	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.43	0.43		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.398	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.186. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Cleared August 1990. (Continued.)

		Sand and Mud								Total Substrate															
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	78.50	15.96	5	46.50	10.02	-	+	0.099									
14.2C/14.2	1	6	1.25	1.25	5	0.00	0.00	-	+	0.363	6	20.83	15.94	5	71.50	15.58	-	-	0.062									
62762C/50983	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	77.00	14.30	6	93.75	7.91	-	-	0.488									
Habitat Means			0.43	0.43		0.00	0.00		+			58.77	15.40		70.60	9.17		-										
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	0.571		Power-50%		0.370	P-value		0.131x	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.398	Power	0.312		Power-50%		0.429	P-value		0.243	Power	---		Power-50%		---	P-value		
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	43.33	17.36	6	27.50	10.86	-	-	0.511									
14.2C/14.2	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	10.00	4.11	6	57.92	12.69	-	-	0.014									
62762C/50983	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	62.50	12.52	4	55.00	16.93	-	+	0.645									
Habitat Means			0.00	0.00		0.00	0.00		o			38.60	11.33		46.80	13.50		+										
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.035		Power-50%		0.701	P-value		0.543xy	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.002		Power-50%		0.765	P-value		0.538	Power	---		Power-50%		---	P-value		
14.1C/14.1	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	21.00	19.77	6	5.42	3.12	-	+	0.506									
14.2C/14.2	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	42.50	16.75	-	-	0.042									
62762C/50983	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	46.00	16.25	5	32.00	11.97	-	+	0.420									
Habitat Means			0.00	0.00		0.00	0.00		o			22.33	12.03		26.63	10.63		+										
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.017		Power-50%		0.070	P-value		0.433xy	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.001		Power-50%		0.097	P-value		0.365	Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.187. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Coarse Textured. May 1991. Cleared July 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Algal Diversity Index (a)									Algal Taxa Richness (b)									Total Algae								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
51091C/51091	1	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	1	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.25	0.25	-		---	0	--	--	4	3.13	3.13	-		---
51091C/51091	2	2	0.00	0.00	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---
62802C/50226	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.13	0.13					0.00	0.00		1.55	1.55			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
50389C/50389	3	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.50	0.29	-	-	---	1	0.00	--	4	7.50	5.95	-	-	---
51091C/51091	3	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	3	3	0.32	0.17	4	0.11	0.11	-	-	0.328	3	2.67	0.88	4	0.75	0.75	-	+	0.158	3	12.50	4.33	4	14.37	14.37	-	-	0.627
Habitat Means			0.11	0.17		0.06	0.06		+			0.89	0.88		0.63	0.52		-			4.17	4.30		10.95	10.20		-	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Modified Shannon Index.
(b) Taxa richness calculations are explained in the methods.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Invertebrates									Rock									Annuals (A)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	2	15.00	15.00	4	1.25	1.25	-	+	0.301	2	85.00	15.00	4	98.75	1.25	-	-	0.301	2	0.00	0.00	4	0.00	0.00	-	o	1.000
51091C/51091	1	1	0.00	--	0	--	--	-		---	1	100.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	1	2	0.00	0.00	3	1.67	1.67	-	-	0.423	2	100.00	0.00	3	98.33	1.67	-	+	0.423	2	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			5.00	7.50		1.50	1.50		+			95.00	7.50		98.55	1.50		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.371	Power	---		Power-50%		---	P-value		0.372	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.471	Power	---		Power-50%		---	P-value		0.471	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	0	--	--	4	1.25	1.25	-		---	0	--	--	4	95.63	2.95	-		---	0	--	--	4	0.00	0.00	-		---
51091C/51091	2	2	0.00	0.00	0	--	--	-		---	2	76.25	18.75	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---
62802C/50226	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	100.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.65	0.65					76.30	18.80		97.80	1.50					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
50389C/50389	3	1	0.00	--	4	1.88	1.20	-	-	---	1	100.00	--	4	90.63	7.10	-	+	---	1	0.00	--	4	0.00	0.00	-	o	---
51091C/51091	3	1	0.00	--	0	--	--	-		---	1	100.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	3	3	3.33	1.67	4	5.00	3.06	-	-	0.944	3	70.83	14.46	4	80.63	15.49	-	-	0.482	3	4.17	2.20	4	8.75	8.75	-	-	0.965
Habitat Means			1.10	1.70		3.45	2.15		-			90.27	14.50		85.60	11.30		-			1.40	2.20		4.40	4.40		-	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.187. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Coarse Textured. May 1991. Cleared July 1990. (Continued.)

Site Pair	Mvd	Ephemerals (AE) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	2	0.00	0.00	4	0.00	0.00	-	o	1.000																		
51091C/51091	1	1	0.00	--	0	--	--	-		---																		
62802C/50226	1	2	0.00	0.00	3	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
50389C/50389	2	0	--	--	4	0.00	0.00	-		---																		
51091C/51091	2	2	0.00	0.00	0	--	--	-		---																		
62802C/50226	2	0	--	--	3	0.00	0.00	-		---																		
Habitat Means			0.00	0.00		0.00	0.00																					
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
50389C/50389	3	1	0.00	--	4	0.00	0.00	-	o	---																		
51091C/51091	3	1	0.00	--	0	--	--	-		---																		
62802C/50226	3	3	1.67	0.83	4	6.25	6.25	-	-	0.882																		
Habitat Means			0.57	0.80		3.15	3.15		-																			
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.188. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Coarse Textured. May 1991. Cleared July 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variati
SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group: Bladed Greens								Bladed Greens (AE) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000		0.00	0.00	4	0.00	0.00	-	o	1.000
51091C/51091	1	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---		0.00	--	0	--	--	-		---
62802C/50226	1	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000		0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.597	Power		---		Power-50%		---	P-value		0.597		---		Power-50%		---	P-value		0.597
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value		0.500		---		Power-50%		---	P-value		0.500
50389C/50389	2	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---		--	--	4	0.00	0.00	-		---
51091C/51091	2	2	0.00	0.00	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---		0.00	0.00	0	--	--	-		---
62802C/50226	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---		--	--	3	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's	Power		---		Power-50%		---	P-value		---	Power		---		Power-50%		---	P-value		---		---		Power-50%		---	P-value		---
Stouffer's	Power		---		Power-50%		---	P-value		---	Power		---		Power-50%		---	P-value		---		---		Power-50%		---	P-value		---
50389C/50389	3	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---		0.00	--	4	0.00	0.00	-	o	---
51091C/51091	3	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---		0.00	--	0	--	--	-		---
62802C/50226	3	3	3.33	2.20	4	6.25	6.25	-	-	0.935	3	0.83	0.83	4	6.25	6.25	-	-	0.649		0.83	0.83	4	6.25	6.25	-	-	0.649
Habitat Means			1.10	2.20		3.15	3.15		-			0.27	0.80		3.15	3.15		-			0.27	0.80		3.15	3.15		-	
Fisher's	Power		---		Power-50%		---	P-value		--- z	Power		---		Power-50%		---	P-value		---		---		Power-50%		---	P-value		---
Stouffer's	Power		---		Power-50%		---	P-value		---	Power		---		Power-50%		---	P-value		---		---		Power-50%		---	P-value		---

(a) Kormannia, Monostroma, Ulva and Ulvaria.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Fine Filamentous Greens								Acrosiphonia sp. (A)								Cladophora sp. (AE)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
51091C/51091	1	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	1	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.597	Power		---		Power-50%		---	P-value		0.597	Power		---		Power-50%		---	P-value		0.597
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value		0.500
50389C/50389	2	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---
51091C/51091	2	2	0.00	0.00	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---
62802C/50226	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's	Power		---		Power-50%		---	P-value		---	Power		---		Power-50%		---	P-value		---	Power		---		Power-50%		---	P-value		---
Stouffer's	Power		---		Power-50%		---	P-value		---	Power		---		Power-50%		---	P-value		---	Power		---		Power-50%		---	P-value		---
50389C/50389	3	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
51091C/51091	3	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	3	3	1.67	1.67	4	0.00	0.00	-	+	0.423	3	1.67	1.67	4	0.00	0.00	-	+	0.423	3	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.57	1.70		0.00	0.00		+			0.57	1.70		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		--- z	Power		---		Power-50%		---	P-value		--- z	Power		---		Power-50%		---	P-value		--- z
Stouffer's	Power		---		Power-50%		---	P-value		---	Power		---		Power-50%		---	P-value		---	Power		---		Power-50%		---	P-value		---

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.188. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Coarse Textured. May 1991. Cleared July 1990. (Continued.)

		Morphological Group: Tubular and Saccate Greens								Blidingia/Enteromorpha (AE) (a)															
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000									
51091C/51091	1	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---									
62802C/50226	1	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's	Power		---		Power-50%		---	P-value		0.597	Power		---		Power-50%		---	P-value		0.597	Power		---		Power-50%		---	P-value	
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value	
50389C/50389	2	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---									
51091C/51091	2	2	0.00	0.00	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---									
62802C/50226	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00												
Fisher's	Power		---		Power-50%		---	P-value		---	Power		---		Power-50%		---	P-value		---	Power		---		Power-50%		---	P-value	
Stouffer's	Power		---		Power-50%		---	P-value		---	Power		---		Power-50%		---	P-value		---	Power		---		Power-50%		---	P-value	
50389C/50389	3	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---									
51091C/51091	3	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---									
62802C/50226	3	3	0.83	0.83	4	0.00	0.00	-	+	0.423	3	0.83	0.83	4	0.00	0.00	-	-	0.423									
Habitat Means			0.27	0.80		0.00	0.00		+			0.27	0.80		0.00	0.00		+										
Fisher's	Power		---		Power-50%		---	P-value		--- z	Power		---		Power-50%		---	P-value		---	Power		---		Power-50%		---	P-value	
Stouffer's	Power		---		Power-50%		---	P-value		---	Power		---		Power-50%		---	P-value		---	Power		---		Power-50%		---	P-value	

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.189. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Coarse Textured. May 1991. Cleared July 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta									Morphological Group: Bladed Browns									Total Fucus gardneri (P)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
51091C/51091	1	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	1	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	0	--	--	4	3.13	3.13	-		---	0	--	--	4	3.13	3.13	-		---	0	--	--	4	3.13	3.13	-		---
51091C/51091	2	2	0.00	0.00	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---
62802C/50226	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			0.00	0.00		1.55	1.55					0.00	0.00		1.55	1.55					0.00	0.00		1.55	1.55			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
50389C/50389	3	1	0.00	--	4	7.50	5.95	-	-	---	1	0.00	--	4	7.50	5.95	-	-	---	1	0.00	--	4	7.50	5.95	-	-	---
51091C/51091	3	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	3	3	6.67	3.00	4	5.62	5.63	-	+	0.455	3	6.67	3.00	4	5.62	5.63	-	+	0.455	3	6.67	3.00	4	5.62	5.63	-	+	0.455
Habitat Means			2.23	3.00		6.55	5.80		+			2.23	3.00		6.55	5.80		+			2.23	3.00		6.55	5.80		+	
Fisher's		Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- yz
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Adult Fucus gardneri (P) (> 2cm)									Juvenile Fucus gardneri (P) (<= 2cm)									Fucus Stipes (P) (a)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
51091C/51091	1	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	1	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	0	--	--	4	2.50	2.50	-		---	0	--	--	4	0.63	0.63	-		---	0	--	--	4	0.00	0.00	-		---
51091C/51091	2	2	0.00	0.00	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---
62802C/50226	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			0.00	0.00		1.25	1.25					0.00	0.00		0.30	0.30					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
50389C/50389	3	1	0.00	--	4	7.50	5.95	-	-	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
51091C/51091	3	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	3	3	5.83	3.63	4	5.62	5.63	-	+	0.691	3	0.83	0.83	4	0.00	0.00	-	+	0.423	3	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			1.93	3.60		6.55	5.80		+			0.27	0.80		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Dead Fucus plants or stipes without blades.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.189. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Coarse Textured. May 1991. Cleared July 1990. (Continued.)

Site Pair	Mvd	Morphological Group: Coarse Filamentous Browns									Myelophycus/Scytosiphon (A) (a)									Morphological Group: Fine Filamentous Browns								
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
51091C/51091	1	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	1	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---
51091C/51091	2	2	0.00	0.00	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---
62802C/50226	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
50389C/50389	3	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
51091C/51091	3	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	3	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Genera not separated.

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Fine Filamentous Browns (AE) (b)																										
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	2	0.00	0.00	4	0.00	0.00	-	o	1.000																		
51091C/51091	1	1	0.00	--	0	--	--	-		---																		
62802C/50226	1	2	0.00	0.00	3	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
50389C/50389	2	0	--	--	4	0.00	0.00	-		---																		
51091C/51091	2	2	0.00	0.00	0	--	--	-		---																		
62802C/50226	2	0	--	--	3	0.00	0.00	-		---																		
Habitat Means			0.00	0.00		0.00	0.00																					
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
50389C/50389	3	1	0.00	--	4	0.00	0.00	-	o	---																		
51091C/51091	3	1	0.00	--	0	--	--	-		---																		
62802C/50226	3	3	0.00	0.00	4	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

(b) Blachista, Ectocarpus and Pilayella.

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.190. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Coarse Textured. May 1991. Cleared July 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta									Morphological Group: Bladed Reds									Gigartinaceae Group (P) (a)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
51091C/51091	1	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	1	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---
51091C/51091	2	2	0.00	0.00	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---
62802C/50226	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
50389C/50389	3	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
51091C/51091	3	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	3	3	2.50	2.50	4	2.50	2.50	-	o	0.926	3	1.67	1.67	4	2.50	2.50	-	-	0.965	3	1.67	1.67	4	0.00	0.00	-	+	0.423
Habitat Means			0.83	2.50		1.25	1.25		o			0.57	1.70		1.25	1.25		-			0.57	1.70		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Chondrus, Iridaea, Mastocarpus and Rhodoglossum.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Palmaria spp. (A)									Porphyra sp. (A)									Morphological Group: Coarse Filamentous Reds								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
51091C/51091	1	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	1	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---
51091C/51091	2	2	0.00	0.00	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---
62802C/50226	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
50389C/50389	3	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
51091C/51091	3	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	3	3	0.00	0.00	4	2.50	2.50	-	-	0.391	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.83	0.83	4	0.00	0.00	-	+	0.423
Habitat Means			0.00	0.00		1.25	1.25		-			0.00	0.00		0.00	0.00		o			0.27	0.80		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.190. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Coarse Textured. May 1991. Cleared July 1990. (Continued.)

Site Pair	Mvd	Endocladia muricata (P) N	C	SE	N	O	SE	CV	D	P	Gloiopeltis furcata (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Saccate Reds N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
51091C/51091	1	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	1	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.597	Power	---		Power-50%	---	P-value			0.597	Power	---		Power-50%	---	P-value			0.597
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500
50389C/50389	2	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---
51091C/51091	2	2	0.00	0.00	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---
62802C/50226	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%	---	P-value			---	Power	---		Power-50%	---	P-value			---	Power	---		Power-50%	---	P-value			---
Stouffer's		Power	---		Power-50%	---	P-value			---	Power	---		Power-50%	---	P-value			---	Power	---		Power-50%	---	P-value			---
50389C/50389	3	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
51091C/51091	3	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	3	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.83	0.83	4	0.00	0.00	-	+	0.423	3	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.27	0.80		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			--- z	Power	---		Power-50%	---	P-value			--- z	Power	---		Power-50%	---	P-value			--- z
Stouffer's		Power	---		Power-50%	---	P-value			---	Power	---		Power-50%	---	P-value			---	Power	---		Power-50%	---	P-value			---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests
z Only one site pair.

Site Pair	Mvd	Halosaccion glandiforme (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
51091C/51091	1	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	1	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.597	Power	---		Power-50%	---	P-value			0.597	Power	---		Power-50%	---	P-value			0.597
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500
50389C/50389	2	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---
51091C/51091	2	2	0.00	0.00	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---
62802C/50226	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%	---	P-value			---	Power	---		Power-50%	---	P-value			---	Power	---		Power-50%	---	P-value			---
Stouffer's		Power	---		Power-50%	---	P-value			---	Power	---		Power-50%	---	P-value			---	Power	---		Power-50%	---	P-value			---
50389C/50389	3	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
51091C/51091	3	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	3	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			--- z	Power	---		Power-50%	---	P-value			--- z	Power	---		Power-50%	---	P-value			--- z
Stouffer's		Power	---		Power-50%	---	P-value			---	Power	---		Power-50%	---	P-value			---	Power	---		Power-50%	---	P-value			---

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.190. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Coarse Textured. May 1991. Cleared July 1990. (Continued.)

		Morphological Group: Crustose Reds							Hildenbrandia sp. (P)														
50389C/50389 1	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000					
51091C/51091 1	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---					
62802C/50226 1	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000					
Habitat Means		0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o						
Fisher's	Power	---	Power-50%		---	P-value		0.597		Power	---	Power-50%		---	P-value		0.597		Power	---	Power-50%	---	P-value
Stouffer's	Power	---	Power-50%		---	P-value		0.500		Power	---	Power-50%		---	P-value		0.500		Power	---	Power-50%	---	P-value
50389C/50389 2	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---					
51091C/51091 2	2	0.00	0.00	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---					
62802C/50226 2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---					
Habitat Means		0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00								
Fisher's	Power	---	Power-50%		---	P-value		---		Power	---	Power-50%		---	P-value		---		Power	---	Power-50%	---	P-value
Stouffer's	Power	---	Power-50%		---	P-value		---		Power	---	Power-50%		---	P-value		---		Power	---	Power-50%	---	P-value
50389C/50389 3	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---					
51091C/51091 3	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---					
62802C/50226 3	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000					
Habitat Means		0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o						
Fisher's	Power	---	Power-50%		---	P-value		---	z	Power	---	Power-50%		---	P-value		---		Power	---	Power-50%	---	P-value
Stouffer's	Power	---	Power-50%		---	P-value		---		Power	---	Power-50%		---	P-value		---		Power	---	Power-50%	---	P-value

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.191. Algal Percent Cover. Invertebrates. Cook Inlet/Kenai. Coarse Textured. May 1991. Cleared July 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Balanomorpha								Lottiidae								Mytilus							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	2	15.00	15.00	4	1.25	1.25	-	+	0.301	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
51091C/51091	1	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	1	2	0.00	0.00	3	1.67	1.67	-	-	0.423	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			5.00	7.50		1.50	1.50		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.371	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.471	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	0	--	--	4	1.25	1.25	-		---	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---
51091C/51091	2	2	0.00	0.00	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---
62802C/50226	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.65	0.65					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
50389C/50389	3	1	0.00	--	4	1.88	1.20	-	-	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
51091C/51091	3	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	3	3	2.50	1.44	4	3.13	3.13	-	-	0.767	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.83	0.83	4	1.88	1.88	-	-	0.867
Habitat Means			0.83	1.40		2.50	2.15		-			0.00	0.00		0.00	0.00					0.27	0.80		0.95	0.95			
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tes
z Only one site pair.

		Littorinidae																										
[illegible]		[illegible]									N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	2	0.00	0.00	4	0.00	0.00		o	1.000																		
51091C/51091	1	1	0.00	--	0	--	--	-		---																		
62802C/50226	1	2	0.00	0.00	3	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
50389C/50389	2	0	--	--	4	0.00	0.00	-		---																		
51091C/51091	2	2	0.00	0.00	0	--	--	-		---																		
62802C/50226	2	0	--	--	3	0.00	0.00	-		---																		
Habitat Means			0.00	0.00		0.00	0.00																					
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
50389C/50389	3	1	0.00	--	4	0.00	0.00	-	o	---																		
51091C/51091	3	1	0.00	--	0	--	--	-		---																		
62802C/50226	3	3	0.00	0.00	4	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.192. Algal Percent Cover. Substrates. Cook Inlet/Kenai. Coarse Textured. May 1991. Cleared July 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Rock								Mud								Sand							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	2	85.00	15.00	4	98.75	1.25	-	-	0.301	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
51091C/51091	1	1	100.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	1	2	100.00	0.00	3	98.33	1.67	-	+	0.423	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			95.00	7.50		98.55	1.50		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.372	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.471	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	0	--	--	4	95.63	2.95	-		---	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---
51091C/51091	2	2	76.25	18.75	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---	2	23.75	18.75	0	--	--	-		---
62802C/50226	2	0	--	--	3	100.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			76.30	18.80		97.80	1.50					0.00	0.00		0.00	0.00					23.80	18.80		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
50389C/50389	3	1	100.00	--	4	90.63	7.10	-	+	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
51091C/51091	3	1	100.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	3	3	70.83	14.46	4	80.63	15.49	-	-	0.482	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	10.00	10.00	4	0.00	0.00	-	+	0.423
Habitat Means			90.27	14.50		85.60	11.30		-			0.00	0.00		0.00	0.00		o			3.33	10.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Shell Fragments								Zosters/Phyllospadix								Sand and Mud							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
51091C/51091	1	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	1	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---
51091C/51091	2	2	0.00	0.00	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---	2	23.75	18.75	0	--	--	-		---
62802C/50226	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					23.80	18.80		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
50389C/50389	3	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
51091C/51091	3	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	3	3	3.33	3.33	4	0.00	0.00	-	+	0.423	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	13.33	13.33	4	0.00	0.00	-	+	0.423
Habitat Means			1.10	3.30		0.00	0.00		+			0.00	0.00		0.00	0.00		o			4.43	13.30		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.192. Algal Percent Cover. Substrates. Cook Inlet/Kenai. Coarse Textured. May 1991. Cleared July 1990. (Continued.)

Site Pair	Mvd	Total Substrate N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
50389C/50389	1	2	85.00	15.00	4	98.75	1.25	-	-	0.301																					
51091C/51091	1	1	100.00	--	0	--	--	-		---																					
62802C/50226	1	2	100.00	0.00	3	98.33	1.67	-	+	0.423																					
Habitat Means			95.00	7.50		98.55	1.50		-																						
Fisher's		Power	---		Power-50%		---	P-value		0.372		Power	---		Power-50%		---	P-value				Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		0.471		Power	---		Power-50%		---	P-value				Power	---		Power-50%		---	P-value			
50389C/50389	2	0	--	--	4	95.63	2.95	-		---																					
51091C/51091	2	2	100.00	0.00	0	--	--	-		---																					
62802C/50226	2	0	--	--	3	100.00	0.00	-		---																					
Habitat Means			100.00	0.00		97.80	1.50																								
Fisher's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value				Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value				Power	---		Power-50%		---	P-value			
50389C/50389	3	1	100.00	--	4	90.63	7.10	-		---																					
51091C/51091	3	1	100.00	--	0	--	--	-		---																					
62802C/50226	3	3	84.17	3.00	4	80.63	15.49	-	+	0.772																					
Habitat Means			94.73	3.00		85.60	11.30		+																						
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value				Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value				Power	---		Power-50%		---	P-value			

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.193. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Coarse Textured. June 1991. Cleared August 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Algal Diversity Index (a)								Algal Taxa Richness (b)								Total Algae							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.50	0.50	5	0.20	0.20	-	-	0.513	2	2.50	2.50	5	1.00	1.00	-	+	0.513
51091C/51091	1	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	1	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.17	0.25		0.10	0.10		+			0.83	1.25		0.50	0.50		+	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.392	Power	---		Power-50%		---	P-value		0.392
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.334	Power	---		Power-50%		---	P-value		0.334
50389C/50389	2	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.20	0.20	-	-	---	1	0.00	--	5	3.00	3.00	-	-	---
51091C/51091	2	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	2	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.33	0.33	2	0.00	0.00	-	+	0.423	3	4.17	4.17	2	0.00	0.00	-	+	0.423
Habitat Means			0.00	0.00		0.00	0.00		o			0.11	0.33		0.10	0.10		-			1.40	4.20		1.50	1.50		+	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- yz
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
50389C/50389	3	3	0.00	0.00	4	0.12	0.12	-	-	0.391	3	0.33	0.33	4	1.50	0.87	-	-	0.322	3	10.83	10.83	4	18.12	15.66	-	-	0.685
51091C/51091	3	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
62802C/50226	3	1	0.00	--	4	0.07	0.07	-	-	---	1	0.00	--	4	0.75	0.48	-	-	---	1	0.00	--	4	23.13	16.50	-	-	---
Habitat Means			0.00	0.00		0.09	0.09		-			0.11	0.17		1.13	0.67		-			3.60	5.40		20.60	16.10		-	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Modified Shannon Index.
(b) Taxa richness calculations are explained in the methods.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Invertebrates								Rock								Total (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	2	0.00	0.00	5	1.50	1.00	-	-	0.186	2	97.50	2.50	5	97.50	1.94	-	o	0.898	2	0.00	0.00	5	1.00	1.00	-	-	0.374
51091C/51091	1	1	0.00	--	0	--	--	-		---	1	100.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	1	4	0.00	0.00	4	3.75	3.75	-	-	0.391	4	93.75	6.25	4	96.25	3.75	-	-	0.855	4	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		2.65	2.40		-			97.10	4.40		96.90	2.85		-			0.00	0.00		0.50	0.50		-	
Fisher's		Power	---		Power-50%		---	P-value		0.091	Power	0.091		Power-50%		1.000	P-value		0.576 y	Power	---		Power-50%		---	P-value		0.315
Stouffer's		Power	---		Power-50%		---	P-value		0.065	Power	0.095		Power-50%		1.000	P-value		0.479	Power	---		Power-50%		---	P-value		0.280
50389C/50389	2	1	0.00	--	5	3.50	2.92	-	-	---	1	100.00	--	5	75.00	17.80	-	+	---	1	0.00	--	5	3.00	3.00	-	-	---
51091C/51091	2	1	0.00	--	0	--	--	-		---	1	100.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	2	3	0.83	0.83	2	0.00	0.00	-	+	0.423	3	95.00	5.00	2	100.00	0.00	-	-	0.423	3	4.17	4.17	2	0.00	0.00	-	+	0.423
Habitat Means			0.27	0.80		1.75	1.45		+			98.33	5.00		87.50	8.90		-			1.40	4.20		1.50	1.50		+	
Fisher's		Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- yz
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
50389C/50389	3	3	3.33	3.33	4	4.38	2.58	-	-	0.768	3	85.83	14.17	4	73.75	20.58	-	+	0.591	3	10.83	10.83	4	10.00	7.57	-	-	0.850
51091C/51091	3	5	0.00	0.00	0	--	--	-		---	5	98.50	1.50	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
62802C/50226	3	1	0.00	--	4	10.63	3.87	-	-	---	1	22.50	--	4	66.25	19.11	-	-	---	1	0.00	--	4	21.25	16.63	-	-	---
Habitat Means			1.10	1.65		7.50	3.25		-			68.93	7.85		70.05	19.85		-			3.60	5.40		15.65	12.10		-	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- yz
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.193. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Coarse Textured. June 1991. Cleared August 1990. (Continued.)

		Annuals (A)								Ephemerals (AE)															
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	2	2.50	2.50	5	0.00	0.00	-	.	0.500	2	2.50	2.50	5	0.00	0.00	-	+	0.500									
51091C/51091	1	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---									
62802C/50226	1	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000									
Habitat Means			0.83	1.25		0.00	0.00		+			0.83	1.25		0.00	0.00		+										
Fisher's		Power	---		Power-50%		---	P-value		0.385	Power	---		Power-50%		---	P-value		0.385	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.329	Power	---		Power-50%		---	P-value		0.329	Power	---		Power-50%		---	P-value		
50389C/50389	2	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---									
51091C/51091	2	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---									
62802C/50226	2	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		---	y Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
50389C/50389	3	3	0.00	0.00	4	8.12	8.13	-	-	0.391	3	0.00	0.00	4	6.88	6.88	-	-	0.391									
51091C/51091	3	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---									
62802C/50226	3	1	0.00	--	4	1.88	1.88	-	-	---	1	0.00	--	4	0.00	0.00	-	o	---									
Habitat Means			0.00	0.00		5.00	5.00		-			0.00	0.00		3.45	3.45		-										
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of differenne between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.194. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Coarse Textured. June 1991. Cleared August 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; < = control > oiled; > = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

Site Pair	Mvd	Total Chlorophyta N	C	SE	N	O	SE	CV	D	P	Morphological Group: Bladed Greens N	C	SE	N	O	SE	CV	D	P	Bladed Greens (AE) (a) N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	2	2.50	2.50	5	0.00	0.00	-	<	0.500	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
51091C/51091	1	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	1	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.83	1.25		0.00	0.00		<			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.385	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.329	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---
51091C/51091	2	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	2	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
50389C/50389	3	3	0.00	0.00	4	1.25	1.25	-	<	0.391	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
51091C/51091	3	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
62802C/50226	3	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
Habitat Means			0.00	0.00		0.65	0.65		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Kornmannia, Monostroma, Ulva and Ulvaria.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Morphological Group: Fine Filamentous Greens N	C	SE	N	O	SE	CV	D	P	Acrosiphonia sp. (A) N	C	SE	N	O	SE	CV	D	P	Cladophora sp. (AE) N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	2	2.50	2.50	5	0.00	0.00	-	<	0.500	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	2.50	2.50	5	0.00	0.00	-	<	0.500
51091C/51091	1	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	1	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.83	1.25		0.00	0.00		<			0.00	0.00		0.00	0.00		o			0.83	1.25		0.00	0.00		<	
Fisher's		Power	---		Power-50%		---	P-value		0.385	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.385
Stouffer's		Power	---		Power-50%		---	P-value		0.329	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.329
50389C/50389	2	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---
51091C/51091	2	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	2	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
50389C/50389	3	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
51091C/51091	3	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
62802C/50226	3	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.194. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Coarse Textured. June 1991. Cleared August 1990. (Continued.)

		Morphological Group: Tubular and Saccate Greens								Blidingia/Enteromorpha (AE) (a)															
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000									
51091C/51091	1	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---									
62802C/50226	1	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's	Power		---		Power-50%		---	P-value		0.597	Power		---		Power-50%		---	P-value		0.597	Power		---	Power-50%		---	P-value	
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value		0.500	Power		---	Power-50%		---	P-value	
50389C/50389	2	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---									
51091C/51091	2	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---									
62802C/50226	2	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's	Power		---		Power-50%		---	P-value		---	z Power		---		Power-50%		---	P-value		---	Power		---	Power-50%		---	P-value	
Stouffer's	Power		---		Power-50%		---	P-value		---	Power		---		Power-50%		---	P-value		---	Power		---	Power-50%		---	P-value	
50389C/50389	3	3	0.00	0.00	4	1.25	1.25	-	-	0.391	3	0.00	0.00	4	1.25	1.25	-	-	0.391									
51091C/51091	3	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---									
62802C/50226	3	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---									
Habitat Means			0.00	0.00		0.65	0.65		-			0.00	0.00		0.65	0.65		-										
Fisher's	Power		---		Power-50%		---	P-value		---	z Power		---		Power-50%		---	P-value		---	Power		---	Power-50%		---	P-value	
											Power		---		Power-50%		---	P-value		---	Power		---	Power-50%		---	P-value	

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.195. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Coarse Textured. June 1991. Cleared August 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group: Bladed Browns								Total Fucus gardneri (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	2	0.00	0.00	5	1.00	1.00	-	-	0.374	2	0.00	0.00	5	1.00	1.00	-	-	0.374	2	0.00	0.00	5	1.00	1.00	-	-	0.374
51091C/51091	1	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	1	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.50	0.50		-			0.00	0.00		0.50	0.50		-			0.00	0.00		0.50	0.50		-	
Fisher's		Power	---		Power-50%		---	P-value		0.315	Power	---		Power-50%		---	P-value		0.315	Power	---		Power-50%		---	P-value		0.315
Stouffer's		Power	---		Power-50%		---	P-value		0.280	Power	---		Power-50%		---	P-value		0.280	Power	---		Power-50%		---	P-value		0.280
50389C/50389	2	1	0.00	--	5	3.00	3.00	-	-	---	1	0.00	--	5	3.00	3.00	-	-	---	1	0.00	--	5	3.00	3.00	-	-	---
51091C/51091	2	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	2	3	4.17	4.17	2	0.00	0.00	-	+	0.423	3	4.17	4.17	2	0.00	0.00	-	+	0.423	3	4.17	4.17	2	0.00	0.00	-	+	0.423
Habitat Means			1.40	4.20		1.50	1.50		+			1.40	4.20		1.50	1.50		+			1.40	4.20		1.50	1.50		+	
Fisher's		Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- yz
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
50389C/50389	3	3	10.83	10.83	4	16.88	14.41	-	-	0.704	3	10.83	10.83	4	10.00	7.57	-	+	0.850	3	10.83	10.83	4	10.00	7.57	-	+	0.850
51091C/51091	3	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
62802C/50226	3	1	0.00	--	4	21.25	16.63	-	+	---	1	0.00	--	4	21.25	16.63	-	+	---	1	0.00	--	4	21.25	16.63	-	+	---
Habitat Means			3.60	5.40		19.10	15.50		-			3.60	5.40		15.65	12.10		+			3.60	5.40		15.65	12.10		-	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- yz
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Adult Fucus gardneri (P) (> 2cm)								Juvenile Fucus gardneri (P) (<= 2cm)								Fucus Stipes (P) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	2	0.00	0.00	5	1.00	1.00	-	-	0.374	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
51091C/51091	1	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	1	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.50	0.50		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.315	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.280	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	1	0.00	--	5	3.00	3.00	-	-	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---
51091C/51091	2	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	2	3	4.17	4.17	2	0.00	0.00	-	+	0.423	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			1.40	4.20		1.50	1.50		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
50389C/50389	3	3	10.83	10.83	4	10.00	7.57	-	+	0.850	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
51091C/51091	3	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
62802C/50226	3	1	0.00	--	4	21.25	16.63	-	-	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
Habitat Means			3.60	5.40		15.65	12.10		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Dead Fucus plants or stipes without blades.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.195. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Coarse Textured. June 1991. Cleared August 1990. (Continued.)

Site Pair	Mvd	Morphological Group: Coarse Filamentous Browns									Myelophycus/Scytosiphon (A) (a)									Morphological Group: Fine Filamentous Browns								
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
51091C/51091	1	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	1	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---
51091C/51091	2	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	2	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
50389C/50389	3	3	0.00	0.00	4	1.25	1.25	-	-	0.391	3	0.00	0.00	4	1.25	1.25	-	-	0.391	3	0.00	0.00	4	5.62	5.63	-	-	0.391
51091C/51091	3	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
62802C/50226	3	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
Habitat Means			0.00	0.00		0.65	0.65		-			0.00	0.00		0.65	0.65		-			0.00	0.00		2.80	2.80		-	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Fine Filamentous Browns (AE) (b)																										
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	2	0.00	0.00	5	0.00	0.00	-	o	1.000																		
51091C/51091	1	1	0.00	--	0	--	--	-		---																		
62802C/50226	1	4	0.00	0.00	4	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
50389C/50389	2	1	0.00	--	5	0.00	0.00	-	o	---																		
51091C/51091	2	1	0.00	--	0	--	--	-		---																		
62802C/50226	2	3	0.00	0.00	2	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
50389C/50389	3	3	0.00	0.00	4	5.62	5.63	-	-	0.391																		
51091C/51091	3	5	0.00	0.00	0	--	--	-		---																		
62802C/50226	3	1	0.00	--	4	0.00	0.00	-	o	---																		
Habitat Means			0.00	0.00		2.80	2.80		-																			
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

(b) Elachista, Ectocarpus and Pilayella.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.196. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Coarse Textured. June 1991. Cleared August 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group: Bladed Reds								Gigartinaceae Group (P) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
51091C/51091	1	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	1	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---
51091C/51091	2	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	2	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
50389C/50389	3	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
51091C/51091	3	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
62802C/50226	3	1	0.00	--	4	1.88	1.88	-	-	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
Habitat Means			0.00	0.00		0.95	0.95		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Chondrus, Iridaea, Mastocarpus and Rhodoglossum.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Palmaria spp. (A)								Porphyra sp. (A)								Morphological Group: Coarse Filamentous Reds							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
51091C/51091	1	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	1	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---
51091C/51091	2	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	2	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
50389C/50389	3	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
51091C/51091	3	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
62802C/50226	3	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	1.88	1.88	-	-	---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.95	0.95		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- yz
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.196. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Coarse Textured. June 1991. Cleared August 1990. (Continued.)

Site Pair	Mvd	Endocladia muricata (P) N	C	SE	N	O	SE	CV	D	P	Gloiopeltis furcata (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Saccate Reds N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
51091C/51091	1	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	1	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---
51091C/51091	2	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	2	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
50389C/50389	3	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
51091C/51091	3	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
62802C/50226	3	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	1.88	1.88	-	-	---	1	0.00	--	4	0.00	0.00	-	o	---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.95	0.95		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Halosaccion glandiforme (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
51091C/51091	1	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	1	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---
51091C/51091	2	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	2	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
50389C/50389	3	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
51091C/51091	3	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
62802C/50226	3	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.196. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Coarse Textured. June 1991. Cleared August 1990. (Continued.)

		Morphological Group: Crustose Reds								Hildenbrandia sp. (P)																
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000									
51091C/51091	1	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---									
62802C/50226	1	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
50389C/50389	2	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---									
51091C/51091	2	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---									
62802C/50226	2	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
50389C/50389	3	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000									
51091C/51091	3	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---									
62802C/50226	3	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.197. Algal Percent Cover. Invertebrates. Cook Inlet/Kenai. Coarse Textured. June 1991. Cleared August 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Balanomorpha								Lottiidae								Mytilus							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	2	0.00	0.00	5	1.00	0.61	-	-	0.178	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
51091C/51091	1	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	1	4	0.00	0.00	4	3.75	3.75	-	-	0.391	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		2.40	2.20		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.088	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.063	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	1	0.00	--	5	3.50	2.92	-	-	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---
51091C/51091	2	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	2	3	0.83	0.83	2	0.00	0.00	-	+	0.423	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.27	0.80		1.75	1.45		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
50389C/50389	3	3	0.00	0.00	4	3.13	2.37	-	-	0.216	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	3.33	3.33	4	0.00	0.00	-	+	0.423
51091C/51091	3	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
62802C/50226	3	1	0.00	--	4	8.75	4.39	-	-	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	1.88	1.88	-	-	---
Habitat Means			0.00	0.00		5.95	3.40		-			0.00	0.00		0.00	0.00		o			1.10	1.65		0.95	0.95		+	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Littorinidae																										
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
51091C/51091	1	1	0.00	--	0	--	--	-		---																		
62802C/50226	1	4	0.00	0.00	4	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.25	0.25		-																			
Fisher's		Power	---		Power-50%		---	P-value		0.315	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.280	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
50389C/50389	2	1	0.00	--	5	0.00	0.00	-	o	---																		
51091C/51091	2	1	0.00	--	0	--	--	-		---																		
62802C/50226	2	3	0.00	0.00	2	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
50389C/50389	3	3	0.00	0.00	4	1.25	1.25	-	-	0.391																		
51091C/51091	3	5	0.00	0.00	0	--	--	-		---																		
62802C/50226	3	1	0.00	--	4	0.00	0.00	-	o	---																		
Habitat Means			0.00	0.00		0.65	0.65		-																			
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.198. Algal Percent Cover. Substrates. Cook Inlet/Kenai. Coarse Textured. June 1991. Cleared August 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Rock								Mud								Sand							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	2	97.50	2.50	5	97.50	1.94	-	o	0.898	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
51091C/51091	1	1	100.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	1	4	93.75	6.25	4	96.25	3.75	-	-	0.855	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	6.25	6.25	4	0.00	0.00	-	+	0.391
Habitat Means			97.10	4.40		96.90	2.85		-			0.00	0.00		0.00	0.00		o			2.10	3.15		0.00	0.00		+	
Fisher's		Power	0.083		Power-50%		1.000	P-value		0.576 y	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.325
Stouffer's		Power	0.084		Power-50%		1.000	P-value		0.479	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.259
50389C/50389	2	1	100.00	--	5	75.00	17.80	-	+	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	18.50	18.50	-	+	---
51091C/51091	2	1	100.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	2	3	95.00	5.00	2	100.00	0.00	-	-	0.423	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			98.33	5.00		87.50	8.90		-			0.00	0.00		0.00	0.00		o			0.00	0.00		9.25	9.25		o	
Fisher's		Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- yz
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
50389C/50389	3	3	85.83	14.17	4	73.75	20.58	-	+	0.591	3	0.00	0.00	4	3.75	3.75	+	-	0.391	3	0.00	0.00	4	0.00	0.00	-	o	1.000
51091C/51091	3	5	98.50	1.50	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	1.50	1.50	0	--	--	-		---
62802C/50226	3	1	22.50	--	4	66.25	19.11	-	-	---	1	0.00	--	4	0.00	0.00	-	o	---	1	77.50	--	4	0.00	0.00	-	+	---
Habitat Means			68.93	7.85		70.05	19.85		-			0.00	0.00		1.90	1.90		-			26.33	0.75		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- yz
											Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of ov[illegible]
z Only one site pair.

		Shell Fragments								Zostera/Phyllospadix								Sand and Mud							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
51091C/51091	1	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	1	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	6.25	6.25	1	0.00	0.00	-	+	0.391
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			2.10	3.15		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.325
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.259
50389C/50389	2	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	18.50	18.50	-	-	---
51091C/51091	2	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
62802C/50226	2	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		9.25	9.25		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- yz
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
50389C/50389	3	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	3.75	3.75	-	-	0.391
51091C/51091	3	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	1.50	1.50	0	--	--	-		---
62802C/50226	3	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---	1	77.50	--	4	0.00	0.00	-	+	---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			26.33	0.75		1.90	1.90		-	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- yz
											Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.198. Algal Percent Cover. Substrates. Cook Inlet/Kenai. Coarse Textured. June 1991. Cleared August 1990. (Continued.)

		Total Substrate																								
Site Pair	Wtd	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	2	97.50	2.50	5	97.50	1.94			---																			
51091C/51091	1	1	100.00	--	0	--	--	-		---																			
62802C/50226	1	4	100.00	0.00	4	96.25	3.75	-	+	0.391																			
Habitat Means			99.17	1.25		96.90	2.85		-																				
Fisher's		Power	0.202		Power-50%		1.000	P-value		0.348		Power	---		Power-50%		---	P-value				Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.185		Power-50%		1.000	P-value		0.287		Power	---		Power-50%		---	P-value				Power	---		Power-50%		---	P-value		
50389C/50389	2	1	100.00	--	5	93.50	5.89	-	+	---																			
51091C/51091	2	1	100.00	--	0	--	--	-		---																			
62802C/50226	2	3	95.00	5.00	2	100.00	0.00	-	-	0.423																			
Habitat Means			98.33	5.00		96.75	2.95		-																				
Fisher's		Power	---		Power-50%		---	P-value		---	yz	Power	---		Power-50%		---	P-value				Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value				Power	---		Power-50%		---	P-value		
50389C/50389	3	3	85.83	14.17	4	77.50	16.86	-	+	0.635																			
51091C/51091	3	5	100.00	0.00	0	--	--	-		---																			
62802C/50226	3	1	100.00	--	4	66.25	19.11	-	+	---																			
Habitat Means			95.27	7.10		71.90	18.00		-																				
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value				Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value				Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.199. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Estuarine. May 1991. Cleared June 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Algal Diversity Index (a)									Algal Taxa Richness (b)									Total Algae								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	3	0.16	0.16	5	0.04	0.04	-	+	0.375	3	2.00	1.00	5	0.40	0.40	-	+	0.127	3	18.33	10.24	5	6.50	6.50	-	+	0.192
50981C/50221	1	2	0.17	0.17	5	0.12	0.07	-	+	0.766	2	1.50	1.50	5	1.60	0.40	-	-	0.927	2	35.00	35.00	5	31.68	13.10	-	+	0.853
50981C/50981	1	2	0.17	0.17	4	0.00	0.00	-	+	0.500	2	1.50	1.50	4	0.50	0.29	-	+	0.381	2	35.00	35.00	4	3.13	2.37	-	+	0.312
Habitat Means			0.16	0.16		0.05	0.04		+			1.67	1.33		0.83	0.36		+			29.43	26.73		13.77	7.33		+	
Fisher's		Power	0.153		Power-50%		---	P-value		0.235	Power	0.409		Power-50%		0.526	P-value		0.122	Power	0.274		Power-50%		0.361	P-value		0.120
Stouffer's		Power	0.174		Power-50%		---	P-value		0.142	Power	---		Power-50%		---	P-value		0.091	Power	---		Power-50%		---	P-value		0.074
C15.1C/C15.1	2	2	0.15	0.15	4	0.08	0.08	-	+	0.638	2	1.50	0.50	4	0.75	0.48	-	+	0.391	2	23.75	1.25	4	10.00	7.07	-	-	0.250
50981C/50221	2	1	0.20	--	4	0.26	0.09	-	-	---	1	2.00	--	4	2.75	0.75	-	-	---	1	15.00	--	4	59.70	17.01	-	-	---
50981C/50981	2	1	0.20	--	5	0.19	0.12	-	+	---	1	2.00	--	5	1.80	0.73	-	+	---	1	15.00	--	5	35.50	15.01	-	-	---
Habitat Means			0.18	0.15		0.18	0.10		+			1.83	0.50		1.77	0.65		+			17.93	1.30		35.07	13.03		+	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- yz
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	3	1	0.34	--	4	0.18	0.11	-	+	---	1	3.00	--	4	1.50	0.65	-	+	---	1	60.00	--	4	8.13	4.13	-	+	---
50981C/50221	3	2	0.36	0.05	0	--	--	-		---	2	3.00	0.00	0	--	--	-		---	2	65.65	31.85	0	--	--	-		---
50981C/50981	3	2	0.36	0.05	2	0.00	0.00	-	-	0.080	2	3.00	0.00	2	1.00	0.00	-	-	---	2	65.65	31.85	2	15.00	5.00	-	+	0.261
Habitat Means			0.35	0.05		0.09	0.06		-			3.00	0.00		1.25	0.32					63.80	31.90		11.55	4.55		-	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Modified Shannon Index.
(b) Taxa richness calculations are explained in the methods.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Invertebrates									Rock									Perennials (P)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	3	0.00	0.00	5	7.50	3.71	-	-	0.086	3	81.67	10.24	5	86.00	5.62	-	-	0.688	3	10.83	4.17	5	1.00	1.00	-	-	0.017
50981C/50221	1	2	1.25	1.25	5	0.00	0.00	-	+	0.500	2	63.75	33.75	5	51.32	15.75	-	+	0.625	2	11.25	11.25	5	30.68	13.56	-	-	0.359
50981C/50981	1	2	1.25	1.25	4	0.00	0.00	-	+	0.500	2	63.75	33.75	4	91.88	4.49	-	-	0.316	2	11.25	11.25	4	2.50	2.50	-	-	0.438
Habitat Means			0.87	0.87		2.50	1.23		+			69.77	25.93		76.40	8.63		-			11.13	8.93		11.40	5.70		+	
Fisher's		Power	0.027		Power-50%		---	P-value		0.466xy	Power	0.050		Power-50%		0.605	P-value		0.362	Power	---		Power-50%		---	P-value		0.044 y
Stouffer's		Power	0.003		Power-50%		---	P-value		0.585	Power	0.051		Power-50%		0.648	P-value		0.299	Power	---		Power-50%		---	P-value		0.098
C15.1C/C15.1	2	2	5.00	5.00	4	9.38	7.73	-	-	0.765	2	71.25	6.25	4	80.00	10.56	-	-	0.528	2	18.75	6.25	4	8.75	7.18	-	+	0.317
50981C/50221	2	1	0.00	--	4	0.63	0.63	-	-	---	1	57.50	--	4	30.33	20.19	-	+	---	1	0.00	--	4	41.58	16.51	-	-	---
50981C/50981	2	1	0.00	--	5	1.50	1.00	-	-	---	1	57.50	--	5	*46.00*	*20.84*	-	+	---	1	*0.00*	--	5	24.50	13.19	-	-	---
Habitat Means			1.67	5.00		3.83	3.10		-			62.10	6.30		52.10	17.20		-			6.27	6.30		24.97	12.30		-	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- yz
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	3	1	0.00	--	4	5.63	3.59	-	-	---	1	40.00	--	4	69.38	12.22	-	-	---	1	12.50	--	4	1.25	0.72	-	-	---
50981C/50221	3	2	0.65	0.65	0	--	--	-		---	2	16.90	14.40	0	--	--	-		---	2	10.65	8.15	0	--	--	-		---
50981C/50981	3	2	0.65	0.65	2	0.00	0.00	-	+	0.500	2	16.90	14.40	2	85.00	5.00	-	-	0.073	2	10.65	8.15	2	15.00	5.00	-	-	0.636
Habitat Means			0.47	0.70		2.80	1.80		-			24.60	14.40		77.20	8.60		-			11.30	8.20		8.15	2.85		-	
Fisher's		Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- yz
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.199. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Estuarine. May 1991. Cleared June 1990. (Continued.)

		Annuals (A)								Ephemerals (AE)															
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
[illegible]																												
50981C/50221	1	2	23.75	23.75	5	1.00	1.00	-	+	0.180	2	23.75	23.75	5	1.00	1.00	-	+	0.180									
50981C/50981	1	2	23.75	23.75	4	0.63	0.63	-	+	0.229	2	23.75	23.75	4	0.63	0.63	-	+	0.229									
Habitat Means			18.37	18.37		2.37	2.37		+			18.37	18.37		2.37	2.37		+										
Fisher's		Power	---		Power-50%		---	P-value		0.088	Power	---		Power-50%		---	P-value		0.088	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.052	Power	---		Power-50%		---	P-value		0.052	Power	---		Power-50%		---	P-value		
C15.1C/C15.1	2	2	5.00	5.00	4	1.25	1.25	-	+	0.466	2	5.00	5.00	4	0.00	0.00	-	-	0.500									
50981C/50221	2	1	15.00	--	4	4.38	1.57	-	+	---	1	15.00	--	4	3.13	1.88	-	-	---									
50981C/50981	2	1	15.00	--	5	11.00	8.72	-	+	---	1	15.00	--	5	11.00	8.72	-	-	---									
Habitat Means			11.67	5.00		5.57	3.87		+			11.67	5.00		4.70	3.53		+										
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
C15.1C/C15.1	3	1	47.50	--	4	6.88	4.25	-	+	---	1	47.50	--	4	1.25	1.25	-	+	---									
50981C/50221	3	2	55.00	40.00	0	--	--	-		---	2	53.15	41.85	0	--	--	-		---									
50981C/50981	3	2	55.00	40.00	2	0.00	0.00	-	-	0.317	2	53.15	41.85	2	0.00	0.00	-	-	0.341									
Habitat Means			52.50	40.00		3.45	2.15		-			51.30	41.90		0.65	0.65		-										
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.200. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Estuarine. May 1991. Cleared June 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group: Bladed Greens								Bladed Greens (AE) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	3	7.50	7.50	5	5.50	5.50	-	+	0.785	3	0.83	0.83	5	0.00	0.00	-	+	0.423	3	0.83	0.83	5	0.00	0.00	-	+	0.423
50981C/50221	1	2	1.25	1.25	5	1.00	1.00	-	+	0.708	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50981	1	2	1.25	1.25	4	0.63	0.63	-	+	0.633	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			3.37	3.37		2.37	2.37		+			0.27	0.27		0.00	0.00		+			0.27	0.27		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.396	Power	---		Power-50%		---	P-value		0.437	Power	---		Power-50%		---	P-value		0.437
Stouffer's		Power	---		Power-50%		---	P-value		0.258	Power	---		Power-50%		---	P-value		0.322	Power	---		Power-50%		---	P-value		0.322
C15.1C/C15.1	2	2	5.00	5.00	4	0.00	0.00	-	+	0.500	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
50981C/50221	2	1	2.50	--	4	15.63	14.01	-	-	---	1	0.00	--	4	1.88	1.20	-	-	---	1	0.00	--	4	1.88	1.20	-	-	---
50981C/50981	2	1	2.50	--	5	7.50	6.89	-	-	---	1	0.00	--	5	3.50	3.50	-	-	---	1	0.00	--	5	3.50	3.50	-	-	---
Habitat Means			3.33	5.00		7.70	6.97		+			0.00	0.00		1.80	1.57		o			0.00	0.00		1.80	1.57		o	
Fisher's		Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- yz
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	3	1	47.50	--	4	1.25	1.25	-	+	---	1	42.50	--	4	1.25	1.25	-	+	---	1	42.50	--	4	1.25	1.25	-	+	---
50981C/50221	3	2	15.00	15.00	0	--	--	-		---	2	15.00	15.00	0	--	--	-		---	2	15.00	15.00	0	--	--	-		---
50981C/50981	3	2	15.00	15.00	2	0.00	0.00	-	+	0.500	2	15.00	15.00	2	0.00	0.00	-	+	0.500	2	15.00	15.00	2	0.00	0.00	-	+	0.500
Habitat Means			25.83	15.00		0.65	0.65		+			24.17	15.00		0.65	0.65		+			24.17	15.00		0.65	0.65		+	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Kornmannia, Monostroma, Ulva and Ulvaria.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Fine Filamentous Greens								Cladophora sp. (AE)								Ulothrix sp. (AE)							
Site Pair		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	3	5.83	5.83	5	5.50	5.50	-	+	0.859	3	0.00	0.00	5	0.00	0.00	+	o	1.000	3	0.00	0.00	5	5.50	5.50	-	-	0.374
50981C/50221	1	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50981	1	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			1.93	1.93		1.83	1.83		+			0.00	0.00		0.00	0.00		o			0.00	0.00		1.83	1.83		-	
Fisher's		Power	---		Power-50%		---	P-value		0.614	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.409
Stouffer's		Power	---		Power-50%		---	P-value		0.459	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.304
C15.1C/C15.1	2	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
50981C/50221	2	1	0.00	--	4	13.75	13.75	-	-	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
50981C/50981	2	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---
Habitat Means			0.00	0.00		4.60	4.60		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	3	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
50981C/50221	3	2	0.00	0.00	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---
50981C/50981	3	2	0.00	0.00	2	0.00	0.00	-	o	1.000	2	0.00	0.00	2	0.00	0.00	-	o	1.000	2	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.200. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Estuarine. May 1991. Cleared June 1990. (Continued.)

		Urospora sp. (AE)								Morphological Group: Tubular and Saccate Greens								Blidingia/Enteromorpha (AE) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	3	5.83	5.83	5	0.00	0.00	-	+	0.423	3	0.83	0.83	5	0.00	0.00	-	+	0.423	3	0.83	0.83	5	0.00	0.00	-	+	0.423
50981C/50221	1	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	1.25	1.25	5	1.00	1.00	-	+	0.708	2	1.25	1.25	5	1.00	1.00	-	+	0.708
50981C/50981	1	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	1.25	1.25	4	0.63	0.63	-	+	0.633	2	1.25	1.25	4	0.63	0.63	-	+	0.633
Habitat Means			1.93	1.93		0.00	0.00		+			1.13	1.13		0.53	0.53		+			1.13	1.13		0.53	0.53		+	
Fisher's		Power	---		Power-50%		---	P-value		0.437	Power	---		Power-50%		---	P-value		0.278	Power	---		Power-50%		---	P-value		0.278
Stouffer's		Power	---		Power-50%		---	P-value		0.322	Power	---		Power-50%		---	P-value		0.170	Power	---		Power-50%		---	P-value		0.170
C15.1C/C15.1	2	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	5.00	5.00	4	0.00	0.00	-	+	0.500	2	5.00	5.00	4	0.00	0.00	-	+	0.500
50981C/50221	2	1	0.00	--	4	0.00	0.00	-	o	---	1	2.50	--	4	0.00	0.00	-	+	---	1	2.50	--	4	0.00	0.00	-	+	---
50981C/50981	2	1	0.00	--	5	0.00	0.00	-	o	---	1	2.50	--	5	4.00	3.41	-	-	---	1	2.50	--	5	4.00	3.41	-	-	---
Habitat Means			0.00	0.00		0.00	0.00		o			3.33	5.00		1.33	1.13		-			3.33	5.00		1.33	1.13		-	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	3	1	0.00	--	4	0.00	0.00	-	o	---	1	5.00	--	4	0.00	0.00	-	+	---	1	5.00	--	4	0.00	0.00	-	+	---
50981C/50221	3	2	0.00	0.00	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---
50981C/50981	3	2	0.00	0.00	2	0.00	0.00	-	o	1.000	2	0.00	0.00	2	0.00	0.00	-	o	1.000	2	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			1.67	0.00		0.00	0.00		o			1.67	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- yz
Stouffer's		Power			Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.201. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Estuarine. May 1991. Cleared June 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group: Bladed Browns								Total Fucus gardneri (P)							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
C15.1C/C15.1	1	3	10.83	4.17	5	1.00	1.00	-	+	0.017	3	10.83	4.17	5	1.00	1.00	-	+	0.017	3	10.83	4.17	5	1.00	1.00	-	+	0.017
50981C/50221	1	2	33.75	33.75	5	26.18	12.45	-	+	0.962	2	11.25	11.25	5	26.18	12.45	-	-	0.403	2	11.25	11.25	5	26.18	12.45	-	-	0.403
50981C/50981	1	2	33.75	33.75	4	2.50	2.50	-	+	0.276	2	11.25	11.25	4	2.50	2.50	-	+	0.438	2	11.25	11.25	4	2.50	2.50	-	-	0.438
Habitat Means			26.13	23.93		9.90	5.33		+			11.13	8.93		9.90	5.33		+			11.13	8.93		9.90	5.33		-	
Fisher's		Power	---		Power-50%		---	P-value		0.021	Power	---		Power-50%		---	P-value		0.043	Power	---		Power-50%		---	P-value		0.043
Stouffer's		Power	---		Power-50%		---	P-value		0.021	Power	---		Power-50%		---	P-value		0.090	Power	---		Power-50%		---	P-value		0.090
C15.1C/C15.1	2	2	18.75	6.25	4	8.75	7.18	-	+	0.317	2	18.75	6.25	4	8.75	7.18	-	+	0.317	2	18.75	6.25	4	8.75	7.18	-	+	0.317
50981C/50221	2	1	12.50	--	4	36.57	13.52	-	-	---	1	0.00	--	4	35.33	13.93	-	-	---	1	0.00	--	4	35.33	13.93	-	-	---
50981C/50981	2	1	12.50	--	5	28.00	13.07	-	-	---	1	0.00	--	5	24.50	13.19	-	-	---	1	0.00	--	5	24.50	13.19	-	-	---
Habitat Means			14.60	6.30		24.47	11.27		+			6.27	6.30		22.87	11.43		+			6.27	6.30		22.87	11.43		+	
Fisher's		Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- yz
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	3	1	12.50	--	4	1.25	0.72	-	-	---	1	12.50	--	4	1.25	0.72	-	+	---	1	12.50	--	4	1.25	0.72	-	+	---
50981C/50221	3	2	49.40	15.60	0	--	--	-		---	2	9.40	9.40	0	--	--	-		---	2	9.40	9.40	0	--	--	-		---
50981C/50981	3	2	49.40	15.60	2	15.00	5.00	-	-	0.156	2	9.40	9.40	2	15.00	5.00	-	-	0.548	2	9.40	9.40	2	15.00	5.00	-	-	0.548
Habitat Means			37.10	15.60		8.15	2.85		+			10.43	9.40		8.15	2.85		-			10.43	9.40		8.15	2.85		-	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- yz
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Adult Fucus gardneri (P) (> 2cm)								Juvenile Fucus gardneri (P) (<= 2cm)								Fucus Stipes (P) (a)							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
C15.1C/C15.1	1	3	7.50	4.33	5	1.00	1.00	-	+	0.137	3	3.33	2.20	5	0.00	0.00	-	+	0.212	3	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50221	1	2	11.25	11.25	5	22.34	12.22	-	-	0.497	2	0.00	0.00	5	3.84	2.83	-	-	0.132	2	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50981	1	2	11.25	11.25	4	2.50	2.50	-	+	0.438	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			10.03	8.97		8.60	5.23		+			1.10	0.73		1.27	0.93		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.207		Power-50%		0.402	P-value		0.175	Power	0.008		Power-50%		0.052	P-value		0.317	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.190		Power-50%		0.432	P-value		0.180	Power	0.000		Power-50%		0.026	P-value		0.441	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	2	2	17.50	5.00	4	8.75	7.18	-	+	0.340	2	1.25	1.25	4	0.00	0.00	-	+	0.500	2	0.00	0.00	4	0.63	0.63	-	-	0.391
50981C/50221	2	1	0.00	--	4	35.33	13.93	-	-	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
50981C/50981	2	1	0.00	--	5	23.00	13.75	-	-	---	1	0.00	--	5	1.50	1.50	-	+	---	1	0.00	--	5	0.00	0.00	-	o	---
Habitat Means			5.83	5.00		22.37	11.63		+			0.43	1.30		0.50	0.50		+			0.00	0.00		0.20	0.20		-	
Fisher's		Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	3	1	12.50	--	4	0.63	0.63	-	-	---	1	0.00	--	4	0.63	0.63	-	-	---	1	0.00	--	4	0.63	0.63	-	-	---
50981C/50221	3	2	9.40	9.40	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---
50981C/50981	3	2	9.40	9.40	2	14.40	4.40	-	-	0.561	2	0.00	0.00	2	0.65	0.65	-	-	0.500	2	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			10.43	9.40		7.50	2.50		-			0.00	0.00		0.65	0.65		-			0.00	0.00		0.30	0.30		o	
Fisher's		Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- yz
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Dead Fucus plants or stipes without blades.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.201. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Estuarine. May 1991. Cleared June 1990. (Continued.)

Site Pair	Mvd	Petalonia/Punctaria (AE) (b) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Coarse Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50221	1	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50981	1	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.635
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	2	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
50981C/50221	2	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
50981C/50981	2	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	3	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
50981C/50221	3	2	0.00	0.00	0	--	--	-		---	2	1.90	1.90	0	--	--	-		---	2	1.90	1.90	0	--	--	-		---
50981C/50981	3	2	0.00	0.00	2	0.00	0.00	-	o	1.000	2	1.90	1.90	2	0.00	0.00	-	+	0.500	2	1.90	1.90	2	0.00	0.00	-	+	0.500
Habitat Means			0.00	0.00		0.00	0.00		o			1.27	1.90		0.00	0.00		+			1.27	1.90		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(b) Genera not separated.

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Morphological Group: Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Fine Filamentous Browns (AE) (b) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000									
50981C/50221	1	2	22.50	22.50	5	0.00	0.00	-	+	0.500	2	22.50	22.50	5	0.00	0.00	-	-	0.500									
50981C/50981	1	2	22.50	22.50	4	0.00	0.00	-	+	0.500	2	22.50	22.50	4	0.00	0.00	-	+	0.500									
Habitat Means			15.00	15.00		0.00	0.00		+			15.00	15.00		0.00	0.00		+										
Fisher's		Power	---		Power-50%		---	P-value		0.327	Power	---		Power-50%		---	P-value		0.327	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.218	Power	---		Power-50%		---	P-value		0.218	Power	---		Power-50%		---	P-value		
C15.1C/C15.1	2	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000									
50981C/50221	2	1	12.50	--	4	1.25	1.25	-	-	---	1	12.50	--	4	1.25	1.25	-		---									
50981C/50981	2	1	12.50	--	5	3.50	2.18	-	-	---	1	12.50	--	5	3.50	2.18	-	+	---									
Habitat Means			8.33	0.00		1.60	1.17		o			8.33	0.00		1.60	1.17		o										
Fisher's		Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- y	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
C15.1C/C15.1	3	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---									
50981C/50221	3	2	38.15	26.85	0	--	--	-		---	2	38.15	26.85	0	--	--	-		---									
50981C/50981	3	2	38.15	26.85	2	0.00	0.00	-	+	0.277	2	38.15	26.85	2	0.00	0.00	-		0.277									
Habitat Means			25.47	26.90		0.00	0.00		+			25.47	26.90		0.00	0.00		+										
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		

(b) Elachista, Ectocarpus and Pilayella.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.202. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Estuarine. May 1991. Cleared June 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D direction of difference; + = control > oiled; - = control < oiled; o control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group: Bladed Reds								Palmaria spp. (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50221	1	2	0.00	0.00	5	4.50	4.50	-	-	0.374	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50981	1	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		1.50	1.50		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.409	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.304	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	2	2	0.00	0.00	4	1.25	1.25	-	-	0.391	2	0.00	0.00	4	1.25	1.25	-	-	0.391	2	0.00	0.00	4	0.00	0.00	-	o	1.000
50981C/50221	2	1	0.00	--	4	7.50	6.69	-	-	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
50981C/50981	2	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---
Habitat Means			0.00	0.00		2.93	2.67		-			0.00	0.00		0.43	0.43		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	3	1	0.00	--	4	5.63	3.29	-	-	---	1	0.00	--	4	5.63	3.29	-	-	---	1	0.00	--	4	1.25	1.25	-	-	---
50981C/50221	3	2	1.25	1.25	0	--	--	--	-	---	2	0.00	0.00	0	--	--	-	-	---	2	0.00	0.00	0	--	--	-	-	---
50981C/50981	3	2	1.25	1.25	2	0.00	0.00	-	+	0.500	2	0.00	0.00	2	0.00	0.00	-	o	1.000	2	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.87	1.30		2.80	1.65		+			0.00	0.00		2.80	1.65		o			0.00	0.00		0.65	0.65		o	
Fisher's		Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- yz
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Porphyra sp. (A)								Morphological Group: Coarse Filamentous Reds								Cryptosiphonia woodii (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50221	1	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50981	1	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	2	2	0.00	0.00	4	1.25	1.25	-	-	0.391	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
50981C/50221	2	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	3.13	3.13	-	-	---	1	0.00	--	4	0.00	0.00	-	o	---
50981C/50981	2	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---
Habitat Means			0.00	0.00		0.43	0.43		-			0.00	0.00		1.03	1.03		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	3	1	0.00	--	4	4.37	2.95	-	-	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
50981C/50221	3	2	0.00	0.00	0	--	--	--	-	---	2	1.25	1.25	0	--	--	-	-	---	2	0.00	0.00	0	--	--	-	-	---
50981C/50981	3	2	0.00	0.00	2	0.00	0.00	-	o	1.000	2	1.25	1.25	2	0.00	0.00	-	+	0.500	2	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		2.20	1.50		o			0.87	1.30		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.202. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Estuarine. May 1991. Cleared June 1990. (Continued.)

Site Pair	Mvd	Gloiopeltis furcata (A) N	C	SE	N	O	SE	CV	D	P	Neorhodomela/Rhodomela (P) (a) N	C	SE	N	O	SE	CV	D	P	Odonthalia floccosa (P) N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50221	1	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50981	1	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	2	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
50981C/50221	2	1	0.00	--	4	1.25	1.25	-	-	---	1	0.00	--	4	1.88	1.88	-	-	---	1	0.00	--	4	0.00	0.00	-	o	---
50981C/50981	2	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---
Habitat Means			0.00	0.00		0.43	0.43		o			0.00	0.00		0.63	0.63		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	3	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
50981C/50221	3	2	0.00	0.00	0	--	--	-		---	2	1.25	1.25	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---
50981C/50981	3	2	0.00	0.00	2	0.00	0.00	-	o	1.000	2	1.25	1.25	2	0.00	0.00	-	-	0.500	2	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.87	1.30		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

[a] Genera not separated.

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Morphological Group: Saccate Reds N	C	SE	N	O	SE	CV	D	P	Halosaccion spp. (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50221	1	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50981	1	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	2	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
50981C/50221	2	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
50981C/50981	2	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	3	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
50981C/50221	3	2	0.00	0.00	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---
50981C/50981	3	2	0.00	0.00	2	0.00	0.00	-	o	1.000	2	0.00	0.00	2	0.00	0.00	-	o	1.000	2	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.202. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Estuarine. May 1991. Cleared June 1990. (Continued.)

		Polysiphonia/Pterosiphonia (A) (a)								Morphological Group: Crustose Reds								Hildenbrandia sp. (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50221	1	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	4.50	4.50	-	-	0.374	2	0.00	0.00	5	4.50	4.50	-	-	0.374
50981C/50981	1	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		1.50	1.50		-			0.00	0.00		1.50	1.50		-	
Fisher's		Power	---		Power-50%		---		P-value	0.655	Power	---		Power-50%		---		P-value	0.409	Power	---		Power-50%		---		P-value	0.409
Stouffer's		Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.304	Power	---		Power-50%		---		P-value	0.304
C15.1C/C15.1	2	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
50981C/50221	2	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	4.38	3.59	-	-	---	1	0.00	--	4	4.38	3.59	-	-	---
50981C/50981	2	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		1.47	1.20		o			0.00	0.00		1.47	1.20		o	
Fisher's		Power	---		Power-50%		---		P-value	--- z	Power	---		Power-50%		---		P-value	--- yz	Power	---		Power-50%		---		P-value	--- yz
Stouffer's		Power	---		Power-50%		---		P-value	---	Power	---		Power-50%		---		P-value	---	Power	---		Power-50%		---		P-value	---
C15.1C/C15.1	3	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
50981C/50221	3	2	0.00	0.00	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---
50981C/50981	3	2	0.00	0.00	2	0.00	0.00	-	o	1.000	2	0.00	0.00	2	0.00	0.00	-	o	1.000	2	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---		P-value	--- z	Power	---		Power-50%		---		P-value	--- z	Power	---		Power-50%		---		P-value	--- z
Stouffer's		Power	---		Power-50%		---		P-value	---	Power	---		Power-50%		---		P-value	---	Power	---		Power-50%		---		P-value	---

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of ovarall tests.
z Only one site pair.

Table C-5.203. Algal Percent Cover. Invertebrates. Cook Inlet/Kenai. Estuarine. May 1991. Cleared June 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Balanomorpha								Lottiidae								Mytilus							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	3	0.00	0.00	5	7.00	3.82	-	-	0.102	3	0.00	0.00	5	0.50	0.50	-	-	0.374	3	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50221	1	2	1.25	1.25	5	0.00	0.00	-	+	0.500	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50981	1	2	1.25	1.25	4	0.00	0.00	-	+	0.500	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.87	0.87		2.33	1.27		+			0.00	0.00		0.17	0.17		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.018		Power-50%		---	P-value		0.464 y	Power	---		Power-50%		---	P-value		0.409	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.002		Power-50%		---	P-value		0.566	Power	---		Power-50%		---	P-value		0.304	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	2	2	5.00	5.00	4	8.13	6.49	-	-	0.794	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	1.25	1.25	-	-	0.391
50981C/50221	2	1	0.00	--	4	0.63	0.63	-	-	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
50981C/50981	2	1	0.00	--	5	1.50	1.00	-	-	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---
Habitat Means			1.67	5.00		3.40	2.70		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.43	0.43		-	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	3	1	0.00	--	4	3.13	3.13	-	-	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	1.88	1.88	-	-	---
50981C/50221	3	2	0.65	0.65	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---
50981C/50981	3	2	0.65	0.65	2	0.00	0.00	-	+	0.500	2	0.00	0.00	2	0.00	0.00	-	o	1.000	2	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.47	0.70		1.55	1.55		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.95	0.95		o	
Fisher's		Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- yz
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Littorinidae																									
Site Pair	Mvd	N	C	SE	N	O	SE				N									N	C	SE	N	O	SE	CV	D	P
50981C/50221	1	2	0.00	0.00	5	0.00	0.00	-	o	1.000																		
50981C/50981	1	2	0.00	0.00	4	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
C15.1C/C15.1	2	2	0.00	0.00	4	0.00	0.00	-	o	1.000																		
50981C/50221	2	1	0.00	--	4	0.00	0.00	-	o	---																		
50981C/50981	2	1	0.00	--	5	0.00	0.00	-	o	---																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
C15.1C/C15.1	3	1	0.00	--	4	0.63	0.63	-	-	---																		
50981C/50221	3	2	0.00	0.00	0	--	--	-		---																		
50981C/50981	3	2	0.00	0.00	2	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.30	0.30		o																			
Fisher's		Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.204. Algal Percent Cover. Substrates. Cook Inlet/Kenai. Estuarine. May 1991. Cleared June 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Rock								Mud								Sand							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
C15.1C/C15.1	1	3	81.67	10.24	5	86.00	5.62	-	-	0.688	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50221	1	2	63.75	33.75	5	51.32	15.75	-	+	0.625	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	17.00	17.00	-	-	0.374
50981C/50981	1	2	63.75	33.75	4	91.88	4.49	-	-	0.316	2	0.00	0.00	4	1.25	1.25	-	-	0.391	2	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			69.77	25.93		76.40	8.63		-			0.00	0.00		0.43	0.43		-			0.00	0.00		5.67	5.67		-	
Fisher's		Power	0.045		Power-50%		0.591	P-value		0.362	Power	---		Power-50%		---	P-value		0.419	Power	---		Power-50%		---	P-value		0.409
Stouffer's		Power	0.054		Power-50%		0.619	P-value		0.299	Power	---		Power-50%		---	P-value		0.310	Power	---		Power-50%		---	P-value		0.304
C15.1C/C15.1	2	2	71.25	6.25	4	80.00	10.56	-	-	0.528	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
50981C/50221	2	1	57.50	--	4	30.33	20.19	-	+	---	1	27.50	--	4	0.00	0.00	-	+	---	1	0.00	--	4	9.38	7.10	-	-	---
50981C/50981	2	1	57.50	--	5	46.00	20.84	-	+	---	1	27.50	--	5	4.50	4.50	-	-	---	1	0.00	--	5	11.50	8.72	-	-	---
Habitat Means			62.10	6.30		52.10	17.20		-			18.33	0.00		1.50	1.50		o			0.00	0.00		6.97	5.27		o	
Fisher's		Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- yz
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	3	1	40.00	--	4	69.38	12.22	-	-	---	1	0.00	--	4	5.00	5.00	-	-	---	1	0.00	--	4	11.25	11.25	-	-	---
50981C/50221	3	2	16.90	14.40	0	--	--	-		---	2	16.90	16.90	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---
50981C/50981	3	2	16.90	14.40	2	85.00	5.00	-	-	0.073	2	16.90	16.90	2	0.00	0.00	-	+	0.500	2	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			24.60	14.40		77.20	8.60		-			11.27	16.90		2.50	2.50		+			0.00	0.00		5.65	5.65		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- yz
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Shell Fragments								Filamentous Diatoms								Zostera/Phyllospadix							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
C15.1C/C15.1	1	3	0.00	0.00	5	0.00	0.00	~	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50221	1	2	0.00	0.00	5	0.00	0.00	~	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50981	1	2	0.00	0.00	4	0.00	0.00	~	o	1.000	2	0.00	0.00	4	3.75	3.75	-	-	0.391	2	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		1.27	1.27		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.419	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.310	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	2	2	0.00	0.00	4	0.00	0.00	~	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
50981C/50221	2	1	0.00	--	4	0.00	0.00	~	o	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
50981C/50981	2	1	0.00	--	5	1.00	1.00	~	-	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---
Habitat Means			0.00	0.00		0.33	0.33		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	3	1	0.00	--	4	0.00	0.00	~	o	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---
50981C/50221	3	2	0.00	0.00	0	--	--	~		---	2	0.00	0.00	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---
50981C/50981	3	2	0.00	0.00	2	0.00	0.00	~	o	1.000	2	0.00	0.00	2	0.00	0.00	-	o	1.000	2	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.204. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Estuarine. May 1991. Cleared June 1990. (Continued.)

Site Pair	Mvd	Sand and Mud N	C	SE	N	O	SE	CV	D	P	Total Substrate N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	81.67	10.24	5	86.00	5.62	-	-	0.688									
50981C/50221	1	2	0.00	0.00	5	17.00	17.00	-	-	0.374	2	63.75	33.75	5	68.32	13.10	-	-	0.980									
50981C/50981	1	2	0.00	0.00	4	1.25	1.25	-	-	0.391	2	63.75	33.75	4	93.13	3.44	-	-	0.284									
Habitat Means			0.00	0.00		6.10	6.10		-			69.77	25.93		82.47	7.37		-										
Fisher's		Power	---		Power-50%		---	P-value		0.238	Power	0.127		Power-50%		0.631	P-value		0.280	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.157	Power	0.170		Power-50%		0.651	P-value		0.194	Power	---		Power-50%		---	P-value		
C15.1C/C15.1	2	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	71.25	6.25	4	80.00	10.56	-	-	0.528									
50981C/50221	2	1	27.50	--	4	9.38	7.10	+	+	---	1	85.00	--	4	39.70	17.23	-	+	---									
50981C/50981	2	1	27.50	--	5	17.00	8.34	-	+	---	1	85.00	--	5	63.00	15.28	-	+	---									
Habitat Means			18.33	0.00		8.80	5.13		o			80.43	6.30		60.90	14.37		-										
Fisher's		Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- y	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
C15.1C/C15.1	3	1	0.00	--	4	16.25	10.68	-	-	---	1	40.00	--	4	85.63	5.72	-	-	---									
50981C/50221	3	2	16.90	16.90	0	--	--	-		---	2	33.75	31.25	0	--	--	-		---									
50981C/50981	3	2	16.90	16.90	2	0.00	0.00	-	+	0.500	2	33.75	31.25	2	85.00	5.00	-	-	0.253									
Habitat Means			11.27	16.90		8.15	5.35		-			35.87	31.30		85.30	5.35		-										
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.205. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Estuarine. June 1991. Cleared July 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Algal Diversity Index (a)								Algal Taxa Richness (b)								Total Algae							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	4	0.11	0.11	3	0.07	0.07	-	+	0.781	4	1.00	0.71	3	0.67	0.67	-	+	0.754	4	10.00	9.19	3	22.50	11.46	-	-	0.449
50981C/50221	1	2	0.11	0.11	5	0.11	0.07	-	+	0.988	2	1.00	1.00	5	1.40	0.24	-	-	0.576	2	6.25	6.25	5	41.16	10.64	-	-	0.060
50981C/50981	1	2	0.11	0.11	4	0.06	0.06	-	+	0.676	2	1.00	1.00	4	0.75	0.48	-	+	0.804	2	6.25	6.25	4	9.38	7.80	-	-	0.915
Habitat Means			0.11	0.11		0.08	0.06		+			1.00	0.90		0.94	0.46		+			7.53	7.27		24.37	9.97		-	
Fisher's		Power	0.086		Power-50%		---	P-value		0.486	Power	0.082		Power-50%		0.230	P-value		0.616	Power	---		Power-50%		---	P-value		0.072
Stouffer's		Power	0.078		Power-50%		---	P-value		0.341	Power	0.072		Power-50%		0.287	P-value		0.500	Power	---		Power-50%		---	P-value		0.057
C15.1C/C15.1	2	5	0.16	0.06	4	0.03	0.03	-	+	0.097	5	2.00	0.32	4	0.75	0.48	-	+	0.058	5	93.50	4.08	4	18.48	16.85	-	+	0.002
50981C/50221	2	0	--	--	3	0.02	0.02	-		---	0	--	--	3	1.33	0.33	-		---	0	--	--	3	95.00	5.00	-		---
50981C/50981	2	0	--	--	6	0.11	0.07	-		---	0	--	--	6	1.17	0.48	-		---	0	--	--	6	20.00	10.27	-		---
Habitat Means			0.16	0.06		0.05	0.04		+			2.00	0.32		1.08	0.43		+			93.50	4.10		44.50	10.73		-	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	3	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	1.00	0.00	3	0.67	0.33	-	-	0.423	2	97.50	2.50	3	9.60	6.24	-	-	0.009
50981C/50221	3	1	0.09	--	0	--	--	-		---	1	2.00	--	0	--	--	-		---	1	100.00	--	0	--	--	-		---
50981C/50981	3	1	0.09	--	5	0.11	0.05	-	-	---	1	2.00	--	5	1.60	0.24	-	+	---	1	100.00	--	5	62.50	18.29	-	+	---
Habitat Means			0.06	0.00		0.06	0.03		o			1.67	0.00		1.13	0.29					99.17	2.50		36.05	12.25			
Fisher's		Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Invertebrates								Rock								Perennials (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	4	0.00	0.00	3	0.83	0.83	-	-	0.423	4	86.88	8.56	3	76.67	12.02	-	-	0.627	4		5.00	3	10.00	10.00	-	-	0.730
50981C/50221	1	2	2.50	2.50	5	1.00	0.61	-	+	0.601	2	91.25	3.75	5	43.16	13.38	-	+	0.074	2		1.25	5	39.66	11.36	-	-	0.036
50981C/50981	1	2	2.50	2.50	4	0.00	0.00	-	+	0.500	2	91.25	3.75	4	90.63	7.80	-	+	0.716	2		1.25	4	7.50	5.95	-	-	0.605
Habitat Means			1.67	1.67		0.60	0.47		+			89.83	5.40		70.17	11.07		+				2.53		19.07	9.13		-	
Fisher's		Power	0.229		Power-50%		---	P-value		0.463	Power	---		Power-50%		---	P-value		0.089	Power			Power-50%		---	P-value		0.053
Stouffer's		Power	0.110		Power-50%		---	P-value		0.410	Power	---		Power-50%		---	P-value		0.064	Power			Power-50%		---	P-value		0.044
C15.1C/C15.1	2	5	0.00	0.00	4	17.50	8.54	-	-	0.083	5	5.50	3.74	4	64.03	12.23	-	-	0.001	5	16.07	4	17.23	15.60	-	+	0.066
50981C/50221	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.83	0.83	-		---	0	--	3	94.17	5.83	-		---
50981C/50981	2	0	--	--	6	0.00	0.00	-		---	0	--	--	6	69.58	16.94	-		---	0	--	6	8.33	5.97	-		---
Habitat Means			0.00	0.00		5.83	2.83		-			5.50	3.70		44.80	9.97		-			16.10		39.90	9.13		+	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power			Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power			Power-50%		---	P-value		---
C15.1C/C15.1	3	2	2.50	2.50	3	7.50	5.20	-	-	0.599	2	0.00	0.00	3	82.10	4.68	-	-	0.003	2	2.50	3	9.60	6.24	-	-	0.009
50981C/50221	3	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	--	0	--	--	-		---
50981C/50981	3	1	0.00	--	5	3.50	1.70	-	-	---	1	0.00	--	5	24.50	16.70	-	-	---	1	--	5	37.50	19.19	-	-	---
Habitat Means			0.83	2.50		5.50	3.45		-			0.00	0.00		53.30	10.70		-			2.50		23.55	12.70		+	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power			Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power			Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.205. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Estuarine. June 1991. Cleared July 1990. (Continued.)

		Annuals (A)									Ephemerals (AE)														
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	--	-	--	--	-	--	-
C15.1C/C15.1	1	4	5.00	4.21	3	0.00	0.00	-	+	0.243	4	5.00	4.21	3	0.00	0.00	-	+	0.243							
50981C/50221	1	2	5.00	5.00	5	1.50	1.50	-	+	0.441	2	5.00	5.00	5	1.50	1.50	-	+	0.441							
50981C/50981	1	2	5.00	5.00	4	1.88	1.88	-	+	0.558	2	5.00	5.00	4	1.88	1.88	-	+	0.558							
Habitat Means			5.00	4.73		1.13	1.13		+			5.00	4.73		1.13	1.13		+							
Fisher's		Power	0.163		Power-50%		0.136	P-value		0.134	Power	0.156		Power-50%		0.141	P-value		0.134	Power	---	Power-50%	---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.073	Power	---		Power-50%		---	P-value		0.073	Power	---	Power-50%	---	P-value		
C15.1C/C15.1	2	5	34.00	17.08	4	1.22	1.22	-	+	0.101	5	34.00	17.08	4	0.00	0.00	-	+	0.071							
50981C/50221	2	0	--	--	3	0.83	0.83	-		---	0	--	--	3	0.83	0.83	-		---							
50981C/50981	2	0	--	--	6	10.42	4.85	-		---	0	--	--	6	10.42	4.85	-		---							
Habitat Means			34.00	17.10		4.13	2.30		-			34.00	17.10		3.73	1.90		-							
Fisher's		Power	---		Power-50%		---	P-value		---	x Power	---		Power-50%		---	P-value		---	Power	---	Power-50%	---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---	Power-50%	---	P-value		
C15.1C/C15.1	3	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000							
50981C/50221	3	1	100.00	--	0	--	--	-		---	1	100.00	--	0	--	--	-		---							
50981C/50981	3	1	100.00	--	5	25.00	16.22	-	+	---	1	100.00	--	5	25.00	16.22	-	+	---							
Habitat Means			66.67	0.00		12.50	8.10		o			66.67	0.00		12.50	8.10		o							
Fisher's		Power	---		Power-50%		---	P-value		---	yz Power	---		Power-50%		---	P-value		---	Power	---	Power-50%	---	P-value		
Stouffer's		Power			Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---	Power-50%	---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.206. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Estuarine. June 1991. Cleared July 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group: Bladed Greens								Bladed Greens (AE) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	4	5.00	4.21	3	11.67	11.67	-	-	0.779	4	0.00	0.00	3	0.00	0.00	-	o	1.000	4	0.00	0.00	3	0.00	0.00	-	o	1.000
50981C/50221	1	2	0.00	0.00	5	1.50	1.50	-	-	0.374	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50981	1	2	0.00	0.00	4	1.88	1.88	-	-	0.391	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			1.67	1.40		5.03	5.03		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		0.040		Power-50%		0.000	P-value		0.203	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's	Power		0.130		Power-50%		0.000	P-value		0.121	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	2	5	3.00	2.42	4	0.00	0.00	-	+	0.218	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
50981C/50221	2	0	--	--	3	0.83	0.83	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	2	0	--	--	6	6.25	3.01	-		---	0	--	--	6	0.00	0.00	-		---	0	--	--	6	0.00	0.00	-		---
Habitat Means			3.00	2.40		2.37	1.27		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	3	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000
50981C/50221	3	1	95.00	--	0	--	--	-		---	1	95.00	--	0	--	--	-		---	1	95.00	--	0	--	--	-		---
50981C/50981	3	1	95.00	--	5	0.50	0.50	-	-	---	1	95.00	--	5	0.50	0.50	-	-	---	1	95.00	--	5	0.50	0.50	-	-	---
Habitat Means			63.33	0.00		0.25	0.25		o			63.33	0.00		0.25	0.25		o			63.33	0.00		0.25	0.25		o	
Fisher's	Power		---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- yz
Stouffer's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Kornmannia, Monostroma, Ulva and Ulvaria.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Fine Filamentous Greens								Cladophora sp. (AE)								Ulothrix sp. (AE)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	4	3.13	3.13	3	11.67	11.67	-	-	0.584	4	0.00	0.00	3	0.00	0.00	-	o	1.000	4	0.00	0.00	3	0.00	0.00	-	o	1.000
50981C/50221	1	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50981	1	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			1.03	1.03		3.90	3.90		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.514	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's	Power		---		Power-50%		---	P-value		0.376	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
50981C/50221	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	2	0	--	--	6	1.25	1.25	-		---	0	--	--	6	0.00	0.00	-		---	0	--	--	6	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.43	0.43		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	3	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000
50981C/50221	3	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
50981C/50981	3	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.206. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Estuarine. June 1991. Cleared July 1990. (Continued.)

		Urospora sp. (AE)								Morphological Group: Tubular and Saccate Greens								Blidingia/Enteromorpha (AE) (a)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	4	3.13	3.13	3	0.00	0.00	-	+	0.391	4	1.88	1.20	3	0.00	0.00	-	+	0.191	4	1.88	1.20	3	0.00	0.00	-	+	0.191
50981C/50221	1	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	1.50	1.50	-	-	0.374	2	0.00	0.00	5	1.50	1.50	-	-	0.374
50981C/50981	1	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	1.88	1.88	-	-	0.391	2	0.00	0.00	4	1.88	1.88	-	-	0.391
Habitat Means			1.03	1.03		0.00	0.00		+			0.63	0.40		1.13	1.13		-			0.63	0.40		1.13	1.13		-	
Fisher's	Power		---		Power-50%		---	P-value		0.419	Power	0.006		Power-50%		0.016	P-value		0.338	Power	0.005		Power-50%		0.015	P-value		0.338
Stouffer's	Power		---		Power-50%		---	P-value		0.310	Power	0.003		Power-50%		0.008	P-value		0.400	Power	0.003		Power-50%		0.007	P-value		0.400
C15.1C/C15.1	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	3.00	2.42	4	0.00	0.00	-	+	0.218	5	3.00	2.42	4	0.00	0.00	-	+	0.218
50981C/50221	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.83	0.83	-		---	0	--	--	3	0.83	0.83	-		---
50981C/50981	2	0	--	--	6	0.00	0.00	-		---	0	--	--	6	5.00	3.16	-		---	0	--	--	6	5.00	3.16	-		---
Habitat Means			0.00	0.00		0.00	0.00		o			3.00	2.40		1.93	1.33		+			3.00	2.40		1.93	1.33		·	
Fisher's	Power		---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	3	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000
50981C/50221	3	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
50981C/50981	3	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

[a] Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.207. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Estuarine. June 1991. Cleared July 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group: Bladed Browns								Total Fucus gardneri (P)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	4	5.00	5.00	3	8.33	8.33	-	-	0.782	4	5.00	5.00	3	8.33	8.33	-	-	0.782	4	5.00	5.00	3	8.33	8.33	-	-	0.782
50981C/50221	1	2	6.25	6.25	5	37.66	11.73	-	-	0.097	2	1.25	1.25	5	37.66	11.73	-	-	0.045	2	1.25	1.25	5	37.66	11.73	-	-	0.045
50981C/50981	1	2	6.25	6.25	4	7.50	5.95	-	-	0.977	2	1.25	1.25	4	7.50	5.95	-	-	0.605	2	1.25	1.25	4	7.50	5.95	-	-	0.605
Habitat Means			5.87	5.87		17.83	8.67		-			2.53	2.53		17.83	8.67		-			2.53	2.53		17.83	8.67		-	
Fisher's		Power	0.174			Power-50%		---	P-value	0.154	Power				Power-50%		---	P-value	0.065	Power				Power-50%		---	P-value	0.065
Stouffer's		Power	0.195			Power-50%		---	P-value	0.128	Power				Power-50%		---	P-value	0.053	Power				Power-50%		---	P-value	0.053
C15.1C/C15.1	2	5	90.50	6.49	4	17.23	15.60	-	+	0.003	5	59.50	16.07	4	17.23	15.60	-	+	0.066	5	59.50	16.07	4	17.23	15.60	-	-	0.066
50981C/50221	2	0	--	--	3	94.17	5.83	-		---	0	--	--	3	94.17	5.83	-		---	0	--	--	3	94.17	5.83	-		---
50981C/50981	2	0	--	--	6	13.75	8.26	-		---	0	--	--	6	8.33	5.97	-		---	0	--	--	6	8.33	5.97	-		---
Habitat Means			90.50	6.50		41.73	9.90		+			59.50	16.10		39.90	9.13		-			59.50	16.10		39.90	9.13		+	
Fisher's		Power	---			Power-50%		---	P-value	--- z	Power				Power-50%		---	P-value	--- z	Power				Power-50%		---	P-value	--- z
Stouffer's		Power	---			Power-50%		---	P-value	---	Power				Power-50%		---	P-value	---	Power				Power-50%		---	P-value	---
C15.1C/C15.1	3	2	97.50	2.50	3	9.60	6.24	-	+	0.009	2	97.50	2.50	3	9.60	6.24	-	+	0.009	2	97.50	2.50	3	9.60	6.24	-	+	0.009
50981C/50221	3	1	5.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
50981C/50981	3	1	5.00	--	5	62.00	18.70	-	-	---	1	0.00	--	5	37.50	19.19	-	-	---	1	0.00	--	5	37.50	19.19	-	-	---
Habitat Means			35.83	2.50		35.80	12.45		+			32.50	2.50		23.55	12.70		+			32.50	2.50		23.55	12.70		+	
Fisher's		Power	---			Power-50%		---	P-value	--- z	Power				Power-50%		---	P-value	--- z	Power				Power-50%		---	P-value	--- z
Stouffer's		Power	---			Power-50%		---	P-value	---	Power				Power-50%		---	P-value	---	Power				Power-50%		---	P-value	---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Adult Fucus gardneri (P) (> 2cm)								Juvenile Fucus gardneri (P) (<= 2cm)								Fucus Stipes (P) (a)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	4	5.00	5.00	3	8.33	8.33	-	-	0.782	4	0.00	0.00	3	0.00	0.00	-	o	1.000	4	0.00	0.00	3	0.00	0.00	-	o	1.000
50981C/50221	1	2	1.25	1.25	5	37.66	11.73	-	-	0.045	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50981	1	2	1.25	1.25	4	7.50	5.95	-	-	0.605	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			2.53	2.53		17.83	8.67		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%		---	P-value	0.065	Power				Power-50%		---	P-value	0.655	Power				Power-50%		---	P-value	0.655
Stouffer's		Power	---			Power-50%		---	P-value	0.053	Power				Power-50%		---	P-value	0.500	Power				Power-50%		---	P-value	0.500
C15.1C/C15.1	2	5	58.50	16.10	4	17.23	15.60	-	+	0.070	5	1.00	1.00	4	0.00	0.00	-	+	0.374	5	0.00	0.00	4	0.00	0.00	-	o	1.000
50981C/50221	2	0	--	--	3	94.17	5.83	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	2	0	--	--	6	8.33	5.97	-		---	0	--	--	6	0.00	0.00	-		---	0	--	--	6	0.00	0.00	-		---
Habitat Means			58.50	16.10		39.90	9.13		+			1.00	1.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%		---	P-value	--- z	Power				Power-50%		---	P-value	--- z	Power				Power-50%		---	P-value	--- z
Stouffer's		Power	---			Power-50%		---	P-value	---	Power				Power-50%		---	P-value	---	Power				Power-50%		---	P-value	---
C15.1C/C15.1	3	2	97.50	2.50	3	9.60	6.24	-	+	0.009	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.83	0.83	-	-	0.423
50981C/50221	3	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
50981C/50981	3	1	0.00	--	5	37.00	18.95	-	-	---	1	0.00	--	5	0.50	0.50	-	-	---	1	0.00	--	5	0.50	0.50	-	-	---
Habitat Means			32.50	2.50		23.30	12.60		-			0.00	0.00		0.25	0.25		o			0.00	0.00		0.65	0.65		-	
Fisher's		Power	---			Power-50%		---	P-value	--- z	Power				Power-50%		---	P-value	--- yz	Power				Power-50%		---	P-value	--- z
Stouffer's		Power	---			Power-50%		---	P-value	---	Power				Power-50%		---	P-value	---	Power				Power-50%		---	P-value	---

(a) Dead Fucus plants or stipes without blades.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.207. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Estuarine. June 1991. Cleared July 1990. (Continued.)

Site Pair	Mvd	Petalonia/Punctaria (AE) (b) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Coarse Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	4	0.00	0.00	3	0.00	0.00	-	o	1.000	4	0.00	0.00	3	0.00	0.00	-	o	1.000	4	0.00	0.00	3	0.00	0.00	-	o	1.000
50981C/50221	1	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50981	1	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
50981C/50221	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	2	0	--	--	6	0.00	0.00	-		---	0	--	--	6	0.00	0.00	-		---	0	--	--	6	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	3	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000
50981C/50221	3	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
50981C/50981	3	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(b) Genera not separated.

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Morphological Group: Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Fine Filamentous Browns (AE) (b) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	4	0.00	0.00	3	0.00	0.00	-	o	1.000	4	0.00	0.00	3	0.00	0.00	-	o	1.000									
50981C/50221	1	2	5.00	5.00	5	0.00	0.00	-	+	0.500	2	5.00	5.00	5	0.00	0.00	-	+	0.500									
50981C/50981	1	2	5.00	5.00	4	0.00	0.00	-	+	0.500	2	5.00	5.00	4	0.00	0.00	-	+	0.500									
Habitat Means			3.33	3.33		0.00	0.00		+			3.33	3.33		0.00	0.00		+										
Fisher's		Power	---		Power-50%		---	P-value		0.327	Power	---		Power-50%		---	P-value		0.327	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.218	Power	---		Power-50%		---	P-value		0.218	Power	---		Power-50%		---	P-value		
C15.1C/C15.1	2	5	31.00	18.06	4	0.00	0.00	-	+	0.128	5	31.00	18.06	4	0.00	0.00	-	+	0.128									
50981C/50221	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
50981C/50981	2	0	--	--	6	5.42	3.79	-		---	0	--	--	6	5.42	3.79	-		---									
Habitat Means			31.00	18.10		1.80	1.27		+			31.00	18.10		1.80	1.27		+										
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
C15.1C/C15.1	3	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000									
50981C/50221	3	1	5.00	--	0	--	--	-		---	1	5.00	--	0	--	--	-		---									
50981C/50981	3	1	5.00	--	5	24.50	16.40	-	+	---	1	5.00	--	5	24.50	16.40	+	-	---									
Habitat Means			3.33	0.00		12.25	8.20		o			3.33	0.00		12.25	8.20		o										
Fisher's		Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- y	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		

(b) Elachista, Ectocarpus and Pilayella.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.208. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Estuarine. June 1991. Cleared July 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group: Bladed Reds								Palmaria spp. (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	4	0.00	0.00	3	2.50	1.44	-	+	0.196	4	0.00	0.00	3	0.00	0.00	-	o	1.000	4	0.00	0.00	3	0.00	0.00	-	o	1.000
50981C/50221	1	2	0.00	0.00	5	2.00	2.00	-	+	0.374	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50981	1	2	0.00	0.00	4	0.00	0.00	+	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		1.50	1.13		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		0.122		Power-50%		---		P-value	0.153	Power	---		Power-50%		---		P-value	0.655	Power	---		Power-50%		---		P-value	0.655
Stouffer's	Power		0.149		Power-50%		---		P-value	0.104	Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500
C15.1C/C15.1	2	5	0.00	0.00	4	1.22	1.22	-	-	0.391	5	0.00	0.00	4	1.22	1.22	-	-	0.391	5	0.00	0.00	4	0.00	0.00	-	o	1.000
50981C/50221	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	2	0	--	--	6	0.00	0.00	-		---	0	--	--	6	0.00	0.00	-		---	0	--	--	6	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.40	0.40		-			0.00	0.00		0.40	0.40		-			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---		P-value	--- z	Power	---		Power-50%		---		P-value	--- z	Power	---		Power-50%		---		P-value	--- z
Stouffer's	Power		---		Power-50%		---		P-value	---	Power	---		Power-50%		---		P-value	---	Power	---		Power-50%		---		P-value	---
C15.1C/C15.1	3	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000
50981C/50221	3	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
50981C/50981	3	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---		P-value	--- z	Power	---		Power-50%		---		P-value	--- z	Power	---		Power-50%		---		P-value	--- z
Stouffer's	Power		---		Power-50%		---		P-value	---	Power	---		Power-50%		---		P-value	---	Power	---		Power-50%		---		P-value	---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Porphyra sp. (A)								Morphological Group: Coarse Filamentous Reds								Cryptosiphonia woodii (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	4	0.00	0.00	3	0.00	0.00	-	o	1.000	4	0.00	0.00	3	0.00	0.00	-	o	1.000	4	0.00	0.00	3	0.00	0.00	-	o	1.000
50981C/50221	1	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50981	1	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---		P-value	0.655	Power	---		Power-50%		---		P-value	0.655	Power	---		Power-50%		---		P-value	0.655
Stouffer's	Power		---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500
C15.1C/C15.1	2	5	0.00	0.00	4	1.22	1.22	-	-	0.391	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
50981C/50221	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	2	0	--	--	6	0.00	0.00	-		---	0	--	--	6	0.00	0.00	-		---	0	--	--	6	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.40	0.40		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---		P-value	--- z	Power	---		Power-50%		---		P-value	--- z	Power	---		Power-50%		---		P-value	--- z
Stouffer's	Power		---		Power-50%		---		P-value	---	Power	---		Power-50%		---		P-value	---	Power	---		Power-50%		---		P-value	---
C15.1C/C15.1	3	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000
50981C/50221	3	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
50981C/50981	3	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---		P-value	--- z	Power	---		Power-50%		---		P-value	--- z	Power	---		Power-50%		---		P-value	--- z
Stouffer's	Power		---		Power-50%		---		P-value	---	Power	---		Power-50%		---		P-value	---	Power	---		Power-50%		---		P-value	---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.208. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Estuarine. June 1991. Cleared July 1990. (Continued.)

Site Pair	Mvd	Gloiopeltis furcata (A) N	C	SE	N	O	SE	CV	D	P	Neorhodomela/Rhodomela (P) (a) N	C	SE	N	O	SE	CV	D	P	Odonthalia floccosa (P) N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	4	0.00	0.00	3	0.00	0.00	-	o	1.000	4	0.00	0.00	3	0.00	0.00	-	o	1.000	4	0.00	0.00	3	0.00	0.00	-	o	1.000
50981C/50221	1	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50981	1	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power	---		Power-50%		---	P-value	0.655			Power	---		Power-50%		---	P-value	0.655		Power	---		Power-50%		---	P-value	0.655	
Stouffer's	Power	---		Power-50%		---	P-value	0.500			Power	---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---	P-value	0.500	
C15.1C/C15.1	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
50981C/50221	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	2	0	--	--	6	0.00	0.00	-		---	0	--	--	6	0.00	0.00	-		---	0	--	--	6	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power	---		Power-50%		---	P-value	---	z		Power	---		Power-50%		---	P-value	---	z	Power	---		Power-50%		---	P-value	---	z
Stouffer's	Power	---		Power-50%		---	P-value	---			Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
C15.1C/C15.1	3	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000
50981C/50221	3	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
50981C/50981	3	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power	---		Power-50%		---	P-value	---	z		Power	---		Power-50%		---	P-value	---	z	Power	---		Power-50%		---	P-value	---	z
Stouffer's	Power	---		Power-50%		---	P-value	---			Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Morphological Group: Saccate Reds N	C	SE	N	O	SE	CV	D	P	Halosaccion spp. (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	4	0.00	0.00	3	0.00	0.00	-	o	1.000	4	0.00	0.00	3	0.00	0.00	-	o	1.000	4	0.00	0.00	3	0.83	0.83	-	-	0.423
50981C/50221	1	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50981	1	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.27	0.27		-	
Fisher's	Power	---		Power-50%		---	P-value	0.655			Power	---		Power-50%		---	P-value	0.655		Power	---		Power-50%		---	P-value	0.437	
Stouffer's	Power	---		Power-50%		---	P-value	0.500			Power	---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---	P-value	0.322	
C15.1C/C15.1	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
50981C/50221	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	2	0	--	--	6	0.00	0.00	-		---	0	--	--	6	0.00	0.00	-		---	0	--	--	6	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power	---		Power-50%		---	P-value	---	z		Power	---		Power-50%		---	P-value	---	z	Power	---		Power-50%		---	P-value	---	z
Stouffer's	Power	---		Power-50%		---	P-value	---			Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
C15.1C/C15.1	3	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000
50981C/50221	3	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
50981C/50981	3	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power	---		Power-50%		---	P-value	---	z		Power	---		Power-50%		---	P-value	---	z	Power	---		Power-50%		---	P-value	---	z
Stouffer's	Power	---		Power-50%		---	P-value	---			Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.208. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Estuarine. June 1991. Cleared July 1990. (Continued.)

Site Pair	Mvd	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Crustose Reds N	C	SE	N	O	SE	CV	D	P	Hildenbrandia sp. (P) N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	4	0.00	0.00	3	0.00	0.00	-	o	1.000	4	0.00	0.00	3	1.67	1.67	-	-	0.423	4	0.00	0.00	3	1.67	1.67	-	-	0.423
50981C/50221	1	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	2.00	2.00	-	-	0.374	2	0.00	0.00	5	2.00	2.00	-	-	0.374
50981C/50981	1	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		1.23	1.23		-			0.00	0.00		1.23	1.23		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.249	Power	---		Power-50%		---	P-value		0.249
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.165	Power	---		Power-50%		---	P-value		0.165
C15.1C/C15.1	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
50981C/50221	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	2	0	--	--	6	0.00	0.00	-		---	0	--	--	6	0.00	0.00	-		---	0	--	--	6	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	3	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000
50981C/50221	3	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
50981C/50981	3	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.209. Algal Percent Cover. Invertebrates. Cook Inlet/Kenai. Estuarine. June 1991. Cleared July 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Balanomorpha								Lottiidae								Mytilus							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	4	0.00	0.00	3	0.00	0.00	-	o	1.000	4	0.00	0.00	3	0.00	0.00	-	o	1.000	4	0.00	0.00	3	0.00	0.00	-	o	1.000
50981C/50221	1	2	2.50	2.50	5	1.00	0.61	-	+	0.601	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50981	1	2	2.50	2.50	4	0.00	0.00	-	+	0.500	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			1.67	1.67		0.33	0.20		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.234		Power-50%		---	P-value		0.363	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.217		Power-50%		---	P-value		0.245	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	2	5	0.00	0.00	4	8.75	3.61	-	-	0.068	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	6.25	5.45	-	-	0.256
50981C/50221	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	2	0	--	--	6	0.00	0.00	-		---	0	--	--	6	0.00	0.00	-		---	0	--	--	6	0.00	0.00	-		---
Habitat Means			0.00	0.00		2.93	1.20		-			0.00	0.00		0.00	0.00		o			0.00	0.00		2.10	1.83		-	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	3	2	2.50	2.50	3	1.67	1.67	-	+	0.789	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000
50981C/50221	3	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
50981C/50981	3	1	0.00	--	5	3.50	1.70	-	-	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---
Habitat Means			0.83	2.50		2.60	1.70		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Littorinidae																									
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	4	0.00	0.00	3	0.83	0.83	-	-	0.423																	
50981C/50221	1	2	0.00	0.00	5	0.00	0.00	-	o	1.000																	
50981C/50981	1	2	0.00	0.00	4	0.00	0.00	-	o	1.000																	
Habitat Means			0.00	0.00		0.27	0.27		-																		
Fisher's		Power	---		Power-50%		---	P-value		0.437	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.322	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
C15.1C/C15.1	2	5	0.00	0.00	4	2.50	2.50	-	-	0.391																	
50981C/50221	2	0	--	--	3	0.00	0.00	-		---																	
50981C/50981	2	0	--	--	6	0.00	0.00	-		---																	
Habitat Means			0.00	0.00		0.83	0.83		-																		
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
C15.1C/C15.1	3	2	0.00	0.00	3	5.83	5.83	-	-	0.423																	
50981C/50221	3	1	0.00	--	0	--	--	-		---																	
50981C/50981	3	1	0.00	--	5	0.00	0.00	-	o	---																	
Habitat Means			0.00	0.00		2.90	2.90		-																		
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power			Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.210. Algal Percent Cover. Substrates. Cook Inlet/Kenai. Estuarine. June 1991. Cleared July 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Rock								Mud								Sand							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	4	86.88	8.56	3	76.67	12.02	-	+	0.627	4	0.00	0.00	3	0.00	0.00	-	o	1.000	4	0.00	0.00	3	0.00	0.00	-	o	1.000
50981C/50221	1	2	91.25	3.75	5	43.16	13.38	-	+	0.074	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	14.66	11.14	-	-	0.212
50981C/50981	1	2	91.25	3.75	4	90.63	7.80	-	+	0.716	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			89.83	5.40		70.17	11.07		+			0.00	0.00		0.00	0.00		o			0.00	0.00		4.90	3.70		-	
Fisher's		Power	---		Power-50%		---	P-value		0.089	Power	---		Power-50%		---	P-value		0.655	Power	0.003		Power-50%		---	P-value		0.297
Stouffer's		Power	---		Power-50%		---	P-value		0.064	Power	---		Power-50%		---	P-value		0.500	Power	0.001		Power-50%		---	P-value		0.236
C15.1C/C15.1	2	5	5.50	3.74	4	64.03	12.23	-	-	0.001	5	0.50	0.50	4	0.00	0.00	-	+	0.374	5	0.00	0.00	4	0.00	0.00	-	o	1.000
50981C/50221	2	0	--	--	3	0.83	0.83	-		---	0	--	--	3	4.17	4.17	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	2	0	--	--	6	69.58	16.94	-		---	0	--	--	6	0.00	0.00	-		---	0	--	--	6	10.42	10.42	-		---
Habitat Means			5.50	3.70		44.80	9.97		-			0.50	0.50		1.40	1.40		+			0.00	0.00		3.47	3.47		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- yz
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	3	2	0.00	0.00	3	82.10	4.68	-	-	0.003	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000
50981C/50221	3	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
50981C/50981	3	1	0.00	--	5	24.50	16.70	-	-	---	1	0.00	--	5	9.00	7.81	-	-	---	1	0.00	--	5	0.00	0.00	-	o	---
Habitat Means			0.00	0.00		53.30	10.70		-			0.00	0.00		4.50	3.90		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Shell Fragments								Filamentous Diatoms								Zostera/Phyllospadix							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	4	0.00	0.00	3	0.00	0.00	-	o	1.000	4	0.00	0.00	3	0.00	0.00	-	o	1.000	4	0.00	0.00	3	0.00	0.00	-	o	1.000
50981C/50221	1	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50981	1	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.50	0.50	4	0.00	0.00	-	-	0.374	5	0.00	0.00	4	0.00	0.00	-	o	1.000
50981C/50221	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	2	0	--	--	6	0.00	0.00	-		---	0	--	--	6	0.00	0.00	-		---	0	--	--	6	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00		o			0.50	0.50		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	3	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o	1.000
50981C/50221	3	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---
50981C/50981	3	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.210. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Estuarine. June 1991. Cleared July 1990. (Continued.)

		Sand and Mud								Total Substrate															
Site Pair	Mvd	N	C	SE	N	Q	SE	CV	D	P	N	C	SE	N	Q	SE	CV	D	P	N	C	SE	N	Q	SE	CV	D	P
C15.1C/C15.1	1	4	0.00	0.00	3	0.00	0.00	-	o	1.000	4	86.88	8.56	3	76.67	12.02	-	-	0.627									
50981C/50221	1	2	0.00	0.00	5	14.66	11.14	-	-	0.212	2	91.25	3.75	5	57.84	10.38	-	-	0.080									
50981C/50981	1	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	91.25	3.75	4	90.63	7.80	-	+	0.716									
Habitat Means			0.00	0.00		4.90	3.70		-			89.83	5.40		75.03	10.07		+										
Fisher's	Power		0.003		Power-50%		---	P-value		0.297	Power		---		Power-50%		---	P-value		0.094	Power	---		Power-50%		---	P-value		
Stouffer's	Power		0.001		Power-50%		---	P-value		0.236	Power		---		Power-50%		---	P-value		0.067	Power	---		Power-50%		---	P-value		
C15.1C/C15.1	2	5	0.50	0.50	4	0.00	0.00	-	+	0.374	5	6.00	3.39	4	64.03	12.23	-	-	0.001									
50981C/50221	2	0	--	--	3	4.17	4.17	-		---	0	--	--	3	5.00	5.00	-		---									
50981C/50981	2	0	--	--	6	10.42	10.42	-		---	0	--	--	6	80.00	10.27	-		---									
Habitat Means			0.50	0.50		4.87	4.87		+			6.00	3.60		49.67	9.17		-										
Fisher's	Power		---		Power-50%		---	P-value		--- yz	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's	Power		---		Power-50%		---	P-value		---	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
C15.1C/C15.1	3	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	82.10	4.68	-	-	0.003									
50981C/50221	3	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---									
50981C/50981	3	1	0.00	--	5	9.00	7.81	-	-	---	1	0.00	--	5	33.50	17.60	-	-	---									
Habitat Means			0.00	0.00		4.50	3.90		o			0.00	0.00		57.80	11.15		-										
Fisher's	Power		---		Power-50%		---	P-value		--- yz	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's	Power		---		Power-50%		---	P-value		---	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.211. Algal Percent Cover. Totals and Seasonal Groups. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared June 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Algal Diversity Index (a)								Algal Taxa Richness (b)								Total Algae							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196 1	1	6	0.01	0.01	6	0.18	0.11	-	-	0.212	6	1.00	0.26	6	2.00	0.68	-	-	0.201	6	21.25	11.27	6	37.08	12.44	-	-	0.267
31252C/31248 1	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.67	0.21	5	0.40	0.24	-	+	0.428	6	10.42	8.45	5	7.50	5.36	-	+	0.772
31252C/31252 1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.67	0.21	6	0.00	0.00	-	+	0.025	6	10.42	8.45	6	0.00	0.00	-	+	0.126
99826C/33141 1	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.04	0.03		-			0.58	0.17		0.60	0.23		+			10.53	7.08		11.15	4.45		+	
Fisher's		Power	0.019		Power-50%		---	P-value		0.373	Power	---		Power-50%		---	P-value		0.097 y	Power	0.029		Power-50%		0.100	P-value		0.333 y
Stouffer's		Power	0.095		Power-50%		---	P-value		0.157	Power	0.013		Power-50%		0.934	P-value		0.445	Power	0.018		Power-50%		0.265	P-value		0.584
30196C/30196 2	2	6	0.11	0.07	5	0.34	0.11	-	-	0.094	6	1.50	0.67	5	3.00	0.71	-	-	0.160	6	42.50	15.00	5	43.00	9.66	-	-	0.738
31252C/31248 2	2	6	0.05	0.05	6	0.00	0.00	-	+	0.363	6	0.67	0.33	6	0.17	0.17	-	+	0.209	6	10.83	6.48	6	2.50	2.50	-	+	0.275
31252C/31252 2	2	6	0.05	0.05	6	0.00	0.00	-	+	0.363	6	0.67	0.33	6	0.17	0.17	-	+	0.209	6	10.83	6.48	6	1.25	1.25	-	+	0.195
99826C/33141 2	2	6	0.01	0.01	4	0.00	0.00	-	+	0.363	6	0.67	0.33	4	0.25	0.25	-	+	0.393	6	15.00	9.11	4	0.63	0.63	-	+	0.228
Habitat Means			0.05	0.05		0.08	0.03		+			0.88	0.42		0.90	0.32		+			19.78	9.28		11.85	3.53		+	
Fisher's		Power	0.023		Power-50%		0.278	P-value		0.243xy	Power	0.293		Power-50%		0.714	P-value		0.132 y	Power	---		Power-50%		---	P-value		0.085
Stouffer's		Power	0.003		Power-50%		0.465	P-value		0.703	Power	0.012		Power-50%		0.709	P-value		0.515	Power	0.177		Power-50%		0.432	P-value		0.214
30196C/30196 3	3	4	0.42	0.07	5	0.44	0.13	-	-	0.880	4	3.50	0.65	5	4.40	1.40	-	-	0.610	4	71.25	15.50	5	66.50	10.30	-	+	0.836
31252C/31248 3	3	6	0.00	0.00	5	0.10	0.10	-	-	0.374	6	0.50	0.22	5	1.00	0.55	-	-	0.389	6	2.50	1.29	5	3.50	1.70	-	-	0.695
31252C/31252 3	3	6	0.00	0.00	6	0.01	0.01	-	-	0.363	6	0.50	0.22	6	0.33	0.33	-	+	0.687	6	2.50	1.29	6	8.75	8.75	-	-	0.867
99826C/33141 3	3	1	0.00	--	3	0.18	0.18	-	-	---	1	0.00	--	3	1.67	1.67	-	-	---	1	0.00	--	3	30.83	30.83	-	-	---
Habitat Means			0.10	0.02		0.18	0.11		-			1.13	0.36		1.85	0.99		-			19.07	6.03		27.40	12.90		-	
Fisher's		Power	0.087		Power-50%		0.342	P-value		0.210	Power	0.069		Power-50%		0.991	P-value		0.377	Power	0.071		Power-50%		0.690	P-value		0.561
Stouffer's		Power	0.135		Power-50%		0.576	P-value		0.194	Power	0.067		Power-50%		0.994	P-value		0.251	Power	0.072		Power-50%		0.752	P-value		0.470

(b) Taxa richness calculations are explained in the methods.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Invertebrates								Rock								Perennials (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196 1	1	6	2.92	1.64	6	0.42	0.42	-	+	0.176	6	75.83	11.04	6	62.50	12.57	-	+	0.389	6	21.25	11.27	6	33.75	12.86	-	-	0.349
31252C/31248 1	1	6	14.58	5.86	5	1.00	0.61	-	+	0.036	6	75.00	8.97	5	91.50	5.04	-	-	0.192	6	10.42	8.45	5	7.50	5.36	-	+	0.772
31252C/31252 1	1	6	14.58	5.86	6	20.42	5.97	-	-	0.407	6	75.00	8.97	6	79.58	5.97	-	-	0.885	6	10.42	8.45	6	0.00	0.00	-	+	0.126
99826C/33141 1	1	6	4.58	1.87	5	3.00	2.00	-	+	0.512	6	95.42	1.87	5	93.00	3.74	-	+	0.776	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			9.17	3.83		6.20	2.25		+			80.30	7.73		81.65	6.82		-			10.53	7.08		10.33	4.57		+	
Fisher's		Power	---		Power-50%		---	P-value		0.041	Power	0.096		Power-50%		1.000	P-value		0.460	Power	0.036		Power-50%		0.120	P-value		0.325
Stouffer's		Power	---		Power-50%		---	P-value		0.034	Power	0.012		Power-50%		1.000	P-value		0.521	Power	0.005		Power-50%		0.173	P-value		0.529
30196C/30196 2	2	6	0.83	0.83	5	1.00	1.00	-	-	0.900	6	56.67	14.54	5	56.00	9.10	-	-	0.796	6	21.25	13.90	5	36.50	7.05	-	-	0.183
31252C/31248 2	2	6	9.58	3.06	6	9.58	2.84	-	+	0.855	6	79.17	7.38	6	87.50	4.56	-	-	0.526	6	10.83	6.48	6	2.50	2.50	-	-	0.275
31252C/31252 2	2	6	9.58	3.06	6	25.00	9.33	-	-	0.132	6	79.17	7.38	6	73.75	8.94	-	+	0.558	6	10.83	6.48	6	1.25	1.25	-	+	0.195
99826C/33141 2	2	6	19.58	4.35	4	2.50	1.77	-	+	0.005	6	61.25	12.89	4	96.88	2.37	-	-	0.035	6	14.58	8.74	4	0.00	0.00	-	+	0.109
Habitat Means			9.90	2.85		9.53	3.73		+			69.10	10.55		78.55	6.25		-			14.37	8.90		10.07	2.73		-	
Fisher's		Power	---		Power-50%		---	P-value		0.060	Power	0.288		Power-50%		0.998	P-value		0.133	Power	---		Power-50%		---	P-value		0.067
Stouffer's		Power	0.009		Power-50%		0.529	P-value		0.636	Power	0.154		Power-50%		0.994	P-value		0.487	Power	0.025		Power-50%		0.435	P-value		0.493
30196C/30196 3	3	4	2.50	2.50	5	0.00	0.00	-	+	0.391	4	26.25	13.01	5	30.00	9.45	-	-	0.849	4	33.13	3.44	5	39.50	6.73	-	-	0.491
31252C/31248 3	3	6	6.25	3.01	5	9.00	2.32	-	-	0.319	6	90.83	2.79	5	87.50	1.37	-	+	0.277	6	2.08	1.36	5	1.50	1.00	-	-	0.926
31252C/31252 3	3	6	6.25	3.01	6	16.67	8.56	-	-	0.390	6	90.83	2.79	6	74.58	9.56	-	+	0.217	6	2.08	1.36	6	8.75	8.75	-	-	0.731
99826C/33141 3	3	1	0.00	--	3	26.67	26.67	-	-	---	1	92.50	--	3	42.50	28.98	-	+	---	1	0.00	--	3	6.67	6.67	-	-	---
Habitat Means			3.78	2.83		13.10	9.40		-			75.10	6.20		58.65	12.38		+			9.33	2.07		14.13	5.80		-	
Fisher's		Power	0.144		Power-50%		0.432	P-value		0.287	Power	0.073		Power-50%		0.962	P-value		0.148	Power	0.067		Power-50%		0.989	P-value		0.416
Stouffer's		Power	0.015		Power-50%		0.402	P-value		0.468	Power	0.061		Power-50%		0.956	P-value		0.213	Power	0.103		Power-50%		0.990	P-value		0.262

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.211. Algal Percent Cover. Totals and Seasonal Groups. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared June 1990. (Continued.)

		Annuals (A)								Ephemerals (AE)																
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	3.33	3.33	-	-	0.363	6	0.00	0.00	6	1.67	1.67	-	-	0.363									
31252C/31248	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000									
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
99826C/33141	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.83	0.83		-			0.00	0.00		0.42	0.42		-										
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.232	Power	---		Power-50%		---	P-value		0.232	Power	---		Power-50%		---	P-value		
30196C/30196	2	6	21.25	14.29	5	6.50	4.15	-	.	0.492	6	6.67	6.67	5	0.00	0.00	-	+	0.363									
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
31252C/31252	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
99826C/33141	2	6	0.42	0.42	4	0.63	0.63	-	-	0.779	6	0.42	0.42	4	0.63	0.63	-	-	0.779									
Habitat Means			5.42	3.67		1.78	1.20		+			1.78	1.78		0.15	0.15		+										
Fisher's		Power	0.002		Power-50%		0.000	P-value		0.584	Power	---		Power-50%		---	P-value		0.518	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.030		Power-50%		0.065	P-value		0.297	Power	---		Power-50%		---	P-value		0.238	Power	---		Power-50%		---	P-value		
30196C/30196	3	4	38.13	13.20	5	27.00	14.30	-	+	0.612	4	6.88	2.37	5	11.00	4.65	-	-	0.814									
31252C/31248	3	6	0.42	0.42	5	2.00	1.46	-	-	0.329	6	0.00	0.00	5	0.50	0.50	-	-	0.374									
31252C/31252	3	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
99826C/33141	3	1	0.00	--	3	24.17	24.17	-	-	---	1	0.00	--	3	5.00	5.00	-	-	---									
Habitat Means			9.72	4.67		13.30	10.00		+			1.72	0.80		4.12	2.55		-										
Fisher's		Power	0.067		Power-50%		0.435	P-value		0.408 y	Power	0.103		Power-50%		0.325	P-value		0.366	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.135		Power-50%		0.492	P-value		0.391	Power	0.167		Power-50%		0.426	P-value		0.272	Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.212. Algal Percent Cover, Chlorophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared June 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group: Bladed Greens								Bladed Greens (AE) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	1.67	1.67	-	-	0.363	6	0.00	0.00	6	1.25	1.25	-	-	0.363	6	0.00	0.00	6	1.25	1.25	-	-	0.363
31252C/31248	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.42	0.42		-			0.00	0.00		0.33	0.33		-			0.00	0.00		0.33	0.33		-	
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.477
Stouffer's		Power	---		Power-50%		---	P-value		0.232	Power	---		Power-50%		---	P-value		0.232	Power	---		Power-50%		---	P-value		0.232
30196C/30196	2	6	6.67	6.67	5	0.00	0.00	-	+	0.363	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.42	0.42	4	0.63	0.63	-	-	0.779	6	0.42	0.42	4	0.63	0.63	-	-	0.779	6	0.42	0.42	4	0.63	0.63	-	-	0.779
Habitat Means			1.78	1.78		0.15	0.15		-			0.10	0.10		0.15	0.15		-			0.10	0.10		0.15	0.15		-	
Fisher's		Power	---		Power-50%		---	P-value		0.518	Power	---		Power-50%		---	P-value		0.642	Power	---		Power-50%		---	P-value		0.642
Stouffer's		Power	---		Power-50%		---	P-value		0.238	Power	---		Power-50%		---	P-value		0.492	Power	---		Power-50%		---	P-value		0.492
30196C/30196	3	4	6.88	2.37	5	12.50	5.70	-	-	0.743	4	3.13	1.88	5	11.00	4.65	-	-	0.352	4	3.13	1.88	5	11.00	4.65	-	-	0.352
31252C/31248	3	6	0.00	0.00	5	0.50	0.50	-	-	0.374	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	1	0.00	--	3	5.00	5.00	-	-	---	1	0.00	--	3	5.00	5.00	-	-	---	1	0.00	--	3	5.00	5.00	-	-	---
Habitat Means			1.72	0.80		4.50	2.80		-			0.78	0.63		4.00	2.43		-			0.78	0.63		4.00	2.43		-	
Fisher's		Power	0.095		Power-50%		0.294	P-value		0.347	Power	0.076		Power-50%		0.058	P-value		0.396	Power	0.080		Power-50%		0.045	P-value		0.396
Stouffer's		Power	0.176		Power-50%		0.408	P-value		0.248	Power	0.312		Power-50%		0.226	P-value		0.226	Power	0.303		Power-50%		0.227	P-value		0.226

(a) Enteromorpha, Monostroma, Ulva and Ulvaria.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Fine Filamentous Greens								Acrosiphonia sp. (A)								Chaetomorpha/Rhizoclonium (A) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.10	0.10		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.232	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	4	1.25	1.25	5	1.50	1.50	-	-	0.991	4	0.00	0.00	5	1.50	1.50	-	-	0.374	4	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	3	6	0.00	0.00	5	0.50	0.50	-	-	0.374	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	1	0.00	--	3	0.00	0.00	-	o	---	1	0.00	--	3	0.00	0.00	-	o	---	1	0.00	--	3	0.00	0.00	-	o	---
Habitat Means			0.33	0.43		0.50	0.50		-			0.00	0.00		0.38	0.38		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.407	Power	---		Power-50%		---	P-value		0.409	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.335	Power	---		Power-50%		---	P-value		0.236	Power	---		Power-50%		---	P-value		0.500

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.212. Algal Percent Cover. Chlorophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared June 1990. (Continued.)

		Cladophora sp. (AE)								Ulothrix sp. (AE)								Urospora sp. (AE)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.10	0.10		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.232	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	1.25	1.25	5	0.00	0.00	-	-	0.391	4	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	3	6	0.00	0.00	5	0.50	0.50	-	-	0.374	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	1	0.00	--	3	0.00	0.00	-	o	---	1	0.00	--	3	0.00	0.00	-	o	---	1	0.00	--	3	0.00	0.00	-	o	---
Habitat Means			0.00	0.00		0.13	0.13		-			0.33	0.43		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.409	Power	---		Power-50%		---	P-value		0.419	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.339	Power	---		Power-50%		---	P-value		0.244	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests
z Only one site pair.

		Morphological Group: Tubular and Saccate Greens								Blidingia/Enteromorpha (AE) (a)																
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV			N	C	SE	N	O	SE	CV	D	P
31252C/31248	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000									
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
99826C/33141	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
30196C/30196	2	6	6.67	6.67	5	0.00	0.00	-	-	0.363	6	6.67	6.67	5	0.00	0.00	-	+	0.363									
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
31252C/31252	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
99826C/33141	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000									
Habitat Means			1.68	1.68		0.00	0.00		-			1.68	1.68		0.00	0.00		+										
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.232	Power	---		Power-50%		---	P-value		0.232	Power	---		Power-50%		---	P-value		
30196C/30196	3	4	2.50	2.50	5	0.00	0.00	-	+	0.391	4	2.50	2.50	5	0.00	0.00	-	+	0.391									
31252C/31248	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000									
31252C/31252	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
99826C/33141	3	1	0.00	--	3	0.00	0.00	-	o	---	1	0.00	--	3	0.00	0.00	-	o	---									
Habitat Means			0.63	0.83		0.00	0.00		+			0.63	0.83		0.00	0.00		+										
Fisher's		Power	---		Power-50%		---	P-value		0.419	Power	---		Power-50%		---	P-value		0.419	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.244	Power	---		Power-50%		---	P-value		0.244	Power	---		Power-50%		---	P-value		

(a) Genera not separated.

Table C-5.213. Algal Percent Cover. Phaeophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared June 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group: Bladed Browns								Alaria sp. (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	20.42	11.21	6	27.92	12.34	-	-	0.432	6	20.42	11.21	6	26.67	12.46	-	-	0.474	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	10.42	8.45	5	7.50	5.36	-	+	0.772	6	10.42	8.45	5	7.50	5.36	-	+	0.772	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	1	6	10.42	8.45	6	0.00	0.00	-	+	0.126	6	10.42	8.45	6	0.00	0.00	-	+	0.126	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			10.30	7.05		8.85	4.43		+			10.30	7.05		8.55	4.48		-			0.00	0.00		0.00	0.00		o	
Fisher's	Power		0.044		Power-50%		0.125	P-value		0.317	Power	0.044		Power-50%		0.129	P-value		0.313	Power	---		Power-50%		---	P-value		0.698
Stouffer's	Power		0.012		Power-50%		0.182	P-value		0.481	Power	0.018		Power-50%		0.203	P-value		0.458	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	9.58	6.72	5	29.00	8.39	-	-	0.046	6	9.58	6.72	5	27.00	9.13	-	-	0.069	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	2	6	7.92	5.02	6	2.50	2.50	-	+	0.331	6	7.92	5.02	6	2.50	2.50	-	+	0.331	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	6	7.92	5.02	6	0.00	0.00	-	+	0.119	6	7.92	5.02	6	0.00	0.00	-	+	0.119	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	14.58	8.74	4	0.00	0.00	-	+	0.109	6	14.58	8.74	4	0.00	0.00	-	+	0.109	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			10.00	6.35		7.88	2.72		+			10.00	6.35		7.38	2.90		+			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.057x	Power	---		Power-50%		---	P-value		0.057x	Power	---		Power-50%		---	P-value		0.698
Stouffer's	Power		0.007		Power-50%		0.440	P-value		0.684	Power	0.012		Power-50%		0.456	P-value		0.633	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	4	31.25	4.62	5	35.00	3.45	-	-	0.525	4	31.25	4.62	5	35.00	3.45	-	-	0.525	4	0.00	0.00	5	8.50	6.78	-	-	0.219
31252C/31248	3	6	0.83	0.83	5	0.50	0.50	-	+	0.911	6	0.83	0.83	5	0.50	0.50	-	+	0.911	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.83	0.83	6	8.33	8.33	-	-	0.509	6	0.83	0.83	6	8.33	8.33	-	-	0.509	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	1	0.00	--	3	22.50	22.50	-	-	---	1	0.00	--	3	6.67	6.67	-	-	---	1	0.00	--	3	0.00	0.00	-	o	---
Habitat Means			8.22	2.07		16.58	8.70		-			8.22	2.07		12.63	4.75		-			0.00	0.00		2.13	1.70		-	
Fisher's	Power		0.095		Power-50%		0.780	P-value		0.357	Power	0.091		Power-50%		0.758	P-value		0.357	Power	0.001		Power-50%		---	P-value		0.303
Stouffer's	Power		0.145		Power-50%		0.921	P-value		0.243	Power	0.141		Power-50%		0.917	P-value		0.243	Power	0.056		Power-50%		---	P-value		0.160

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Fucus gardneri (P)								Adult Fucus gardneri (P) (> 2cm)								Juvenile Fucus gardneri (P) (<= 2cm)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	20.42	11.21	6	26.67	12.46	-	-	0.474	6	18.75	11.63	6	23.75	13.24	-	-	0.517	6	1.67	1.24	6	2.92	1.50	-	-	0.547
31252C/31248	1	6	10.42	8.45	5	7.50	5.36	-	+	0.772	6	5.42	4.44	5	7.50	5.36	-	-	0.837	6	5.00	4.08	5	0.00	0.00	-	+	0.215
31252C/31252	1	6	10.42	8.45	6	0.00	0.00	-	+	0.126	6	5.42	4.44	6	0.00	0.00	-	+	0.158	6	5.00	4.08	6	0.00	0.00	-	+	0.215
99826C/33141	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			10.30	7.05		8.55	4.48		+			7.40	5.10		7.83	4.65		-			2.93	2.35		0.72	0.38		+	
Fisher's	Power		0.046		Power-50%		0.137	P-value		0.313	Power	0.013		Power-50%		0.106	P-value		0.647	Power	0.043		Power-50%		0.242	P-value		0.204
Stouffer's	Power		0.015		Power-50%		0.201	P-value		0.458	Power	0.072		Power-50%		0.191	P-value		0.455	Power	0.031		Power-50%		0.348	P-value		0.296
30196C/30196	2	6	9.58	6.72	5	27.00	9.13	-	-	0.069	6	9.58	6.72	5	26.50	9.31	-	-	0.076	6	0.00	0.00	5	0.50	0.50	-	-	0.374
31252C/31248	2	6	7.92	5.02	6	2.50	2.50	-	+	0.331	6	7.50	4.65	6	2.50	2.50	-	+	0.338	6	0.42	0.42	6	0.00	0.00	-	+	0.363
31252C/31252	2	6	7.92	5.02	6	0.00	0.00	-	+	0.119	6	7.50	4.65	6	0.00	0.00	-	+	0.116	6	0.42	0.42	6	0.00	0.00	-	+	0.363
99826C/33141	2	6	14.58	8.74	4	0.00	0.00	-	+	0.109	6	14.58	8.74	4	0.00	0.00	-	+	0.109	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			10.00	6.35		7.38	2.90		+			9.80	6.20		7.25	2.95		+			0.20	0.20		0.13	0.13		+	
Fisher's	Power		---		Power-50%		---	P-value		0.057x	Power	---		Power-50%		---	P-value		0.056x	Power	---		Power-50%		---	P-value		0.375
Stouffer's	Power		0.011		Power-50%		0.475	P-value		0.633	Power	0.014		Power-50%		0.485	P-value		0.619	Power	---		Power-50%		---	P-value		0.487
30196C/30196	3	4	31.25	4.62	5	26.50	7.61	-	+	0.526	4	30.63	4.25	5	26.50	7.61	-	+	0.550	4	0.63	0.63	5	0.00	0.00	-	-	0.391
31252C/31248	3	6	0.83	0.83	5	0.50	0.50	-	+	0.911	6	0.83	0.83	5	0.50	0.50	-	+	0.911	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.83	0.83	6	8.33	8.33	-	-	0.509	6	0.83	0.83	6	8.33	8.33	-	-	0.509	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	1	0.00	--	3	6.67	6.67	-	-	---	1	0.00	--	3	5.83	5.83	-	-	---	1	0.00	--	3	0.83	0.83	-	-	---
Habitat Means			8.22	2.07		10.50	5.77		+			8.05	1.97		10.28	5.55		+			0.15	0.20		0.20	0.20		-	
Fisher's	Power		0.033		Power-50%		0.805	P-value		0.566 y	Power	0.031		Power-50%		0.845	P-value		0.577 y	Power	---		Power-50%		---	P-value		0.419 y
Stouffer's	Power		0.068		Power-50%		0.949	P-value		0.372	Power	0.058		Power-50%		0.962	P-value		0.382	Power	---		Power-50%		---	P-value		0.244

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.213. Algal Percent Cover. Phaeophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared June 1990. (Continued.)

		Fucus Stipes (P) (a)								Morphological Group: Coarse Filamentous Browns								Myelophycus/Scytosiphon (A) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	1.25	1.25	-	-	0.363	6	0.00	0.00	6	1.25	1.25	-	-	0.363
31252C/31248	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.33	0.33		-			0.00	0.00		0.33	0.33		-	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.477
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.232	Power	---		Power-50%		---	P-value		0.232
30196C/30196	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	1	0.00	--	3	0.00	0.00	-	o	---	1	0.00	--	3	15.83	15.83	-	-	---	1	0.00	--	3	15.83	15.83	-	-	---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		3.95	3.95		o			0.00	0.00		3.95	3.95		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655 y	Power	---		Power-50%		---	P-value		0.655 y
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

(a) Dead Fucus plants or stipes without blades.

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Fine Filamentous Browns								Fine Filamentous Browns (AE) (b)								Morphological Group: Crustose Browns							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	2.00	2.00	-	-	0.374
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.50	0.50		-	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.483
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.237
30196C/30196	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	1	0.00	--	3	0.00	0.00	-	o	---	1	0.00	--	3	0.00	0.00	-	o	---	1	0.00	--	3	0.00	0.00	-	o	---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

(b) Elachista, Ectocarpus and Pilayella.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.213. Algal Percent Cover. Phaeophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared June 1990. (Continued.)

		Ralfsia/Petroderma (P) (a)																					
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P				CV
31252C/31248	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000													
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000													
99826C/33141	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000													
Habitat Means			0.00	0.00		0.00	0.00		o														
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value			Power	---	Power-50%	--- P-value
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---	Power-50%	--- P-value
30196C/30196	2	6	0.00	0.00	5	2.00	2.00	-	-	0.374													
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000													
31252C/31252	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000													
99826C/33141	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000													
Habitat Means			0.00	0.00		0.50	0.50		-														
Fisher's		Power	---		Power-50%		---	P-value		0.483	Power	---		Power-50%		---	P-value			Power	---	Power-50%	--- P-value
Stouffer's		Power	---		Power-50%		---	P-value		0.237	Power	---		Power-50%		---	P-value			Power	---	Power-50%	--- P-value
30196C/30196	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000													
31252C/31248	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000													
31252C/31252	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000													
99826C/33141	3	1	0.00	--	3	0.00	0.00	-	o	---													
Habitat Means			0.00	0.00		0.00	0.00		o														
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			Power	---	Power-50%	--- P-value
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---	Power-50%	--- P-value

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.214. Algal Percent Cover. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared June 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group: Bladed Reds								Gigartinaceae Group (P) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.83	0.53	6	7.50	7.01	-	-	0.464	6	0.00	0.00	6	3.75	3.75	-	-	0.363	6	0.00	0.00	6	3.75	3.75	-	-	0.363
31252C/31248	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.20	0.13		1.88	1.75		-			0.00	0.00		0.95	0.95		-			0.00	0.00		0.95	0.95		-	
Fisher's		Power	0.000		Power-50%		0.015	P-value		0.528	Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.477
Stouffer's		Power	0.024		Power-50%		0.057	P-value		0.278	Power	---		Power-50%		---	P-value		0.232	Power	---		Power-50%		---	P-value		0.232
30196C/30196	2	6	26.25	15.11	5	14.00	7.69	-	+	0.747	6	24.58	15.20	5	5.50	2.55	-	+	0.482	6	10.42	9.45	5	5.50	2.55	-	-	0.905
31252C/31248	2	6	2.92	2.92	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	6	2.92	2.92	6	1.25	1.25	-	+	0.770	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			8.02	5.23		3.83	2.25		+			6.15	3.80		1.38	0.65		+			2.60	2.38		1.38	0.65		-	
Fisher's		Power	0.015		Power-50%		0.043	P-value		0.370	Power	0.000		Power-50%		0.000	P-value		0.536	Power	0.000		Power-50%		0.000	P-value		0.676
Stouffer's		Power	0.067		Power-50%		0.131	P-value		0.215	Power	0.031		Power-50%		0.000	P-value		0.286	Power	0.004		Power-50%		0.000	P-value		0.462
30196C/30196	3	4	33.13	10.07	5	19.00	5.62	-	+	0.300	4	31.25	10.87	5	16.50	4.91	-	+	0.456	4	0.00	0.00	5	11.00	5.16	-	-	0.079
31252C/31248	3	6	1.67	1.24	5	2.50	1.37	-	-	0.536	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	3	6	1.67	1.24	6	0.42	0.42	-	+	0.422	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	1	0.00	--	3	3.33	3.33	-	-	---	1	0.00	--	3	0.83	0.83	-	-	---	1	0.00	--	3	0.00	0.00	-	o	---
Habitat Means			9.12	4.17		6.30	2.67		+			7.83	3.63		4.33	1.42		+			0.00	0.00		2.75	1.30		-	
Fisher's		Power	0.091		Power-50%		0.558	P-value		0.274	Power	0.219		Power-50%		0.290	P-value		0.454	Power	0.076		Power-50%		---	P-value		0.161
Stouffer's		Power	0.133		Power-50%		0.707	P-value		0.202	Power	0.347		Power-50%		0.219	P-value		0.274	Power	---		Power-50%		---	P-value		0.078

(a) Chondrus, Tridaea, Mastocarpus and Rhodoglossum.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Palmaria spp. (A)								Phycodrys riggii (A)								Porphyra sp. (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	14.17	14.17	5	0.00	0.00	-	+	0.363	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			3.55	3.55		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.232	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	4	26.88	10.58	5	3.00	2.42	-	+	0.064	4	4.37	4.37	5	0.50	0.50	-	+	0.477	4	0.00	0.00	5	0.50	0.50	-	-	0.374
31252C/31248	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	1	0.00	--	3	0.83	0.83	-	-	---	1	0.00	--	3	0.00	0.00	-	o	---	1	0.00	--	3	0.00	0.00	-	o	---
Habitat Means			6.72	3.53		0.95	0.80		+			1.10	1.47		0.13	0.13		+			0.00	0.00		0.13	0.13		-	
Fisher's		Power	0.125		Power-50%		0.146	P-value		0.139	Power	---		Power-50%		---	P-value		0.465	Power	---		Power-50%		---	P-value		0.409
Stouffer's		Power	---		Power-50%		---	P-value		0.067	Power	---		Power-50%		---	P-value		0.283	Power	---		Power-50%		---	P-value		0.236

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.214. Algal Percent Cover. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared June 1990. (Continued.)

		Tokidadendron kurilensis (A)								Morphological Group: Coarse Filamentous Reds								Cryptosiphonia woodii (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	1.25	0.85	5	5.50	4.90	-	-	0.498	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	2.92	2.92	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	2.92	2.92	6	1.25	1.25	-	+	0.770	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			1.78	1.68		1.70	1.55		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	0.002		Power-50%		0.095	P-value		0.507	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.014		Power-50%		0.217	P-value		0.507	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	4	0.00	0.00	5	1.50	1.50	-	-	0.374	4	1.25	1.25	5	0.50	0.50	-	+	0.700	4	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	1.67	1.24	5	2.50	1.37	-	-	0.536	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.67	1.24	6	0.42	0.42	-	+	0.422	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	1	0.00	--	3	0.00	0.00	-	o	---	1	0.00	--	3	0.00	0.00	-	o	---	1	0.00	--	3	0.00	0.00	-	o	---
Habitat Means			0.00	0.00		0.38	0.38		-			1.18	1.23		0.85	0.57		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.409	Power	0.035		Power-50%		0.357	P-value		0.442	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.236	Power	0.035		Power-50%		0.559	P-value		0.379	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Endocladia muricata (P)								Gloiopeltis furcata (A)								Neorhodomela/Rhodomela (P) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	1.25	0.85	5	1.50	1.00	-	-	0.844	6	0.00	0.00	5	4.00	4.00	-	-	0.374	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	2.92	2.92	6	0.00	0.00	-	+	0.363
31252C/31252	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	2.92	2.92	6	1.25	1.25	-	+	0.770
99826C/33141	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.33	0.23		0.38	0.25		-			0.00	0.00		1.00	1.00		-			1.45	1.45		0.33	0.33		+	
Fisher's		Power	0.001		Power-50%		0.002	P-value		0.660	Power	---		Power-50%		---	P-value		0.483	Power	---		Power-50%		---	P-value		0.424
Stouffer's		Power	0.045		Power-50%		0.000	P-value		0.437	Power	---		Power-50%		---	P-value		0.237	Power	---		Power-50%		---	P-value		0.299
30196C/30196	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.42	0.42	5	1.50	1.50	-	-	0.629	6	1.25	1.25	5	1.00	0.61	-	+	0.787
31252C/31252	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	1.25	1.25	6	0.42	0.42	-	+	0.718
99826C/33141	3	1	0.00	--	3	0.00	0.00	-	o	---	1	0.00	--	3	0.00	0.00	-	o	---	1	0.00	--	3	0.00	0.00	-	o	---
Habitat Means			0.00	0.00		0.00	0.00		o			0.20	0.27		0.38	0.38		+			0.65	0.87		0.35	0.25		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.475 y	Power	0.006		Power-50%		---	P-value		0.506
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.461	Power	0.000		Power-50%		---	P-value		0.399

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.214. Algal Percent Cover. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared June 1990. (Continued.)

Site Pair	Mvd	Odonthalia floccosa (P) N	C	SE	N	O	SE	CV	D	P	Ptilota/Neoptilota (P) (b) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Saccate Reds N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.42	0.42	5	0.00	0.00	-	+	0.363
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.10	0.10		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.477
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.232
30196C/30196	3	4	1.25	1.25	5	0.00	0.00	-	+	0.391	4	0.00	0.00	5	0.50	0.50	-	-	0.374	4	0.00	0.00	5	0.50	0.50	-	-	0.374
31252C/31248	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	1	0.00	--	3	0.00	0.00	-	o	---	1	0.00	--	3	0.00	0.00	-	o	---	1	0.00	--	3	2.50	2.50	-	-	---
Habitat Means			0.33	0.43		0.00	0.00		+			0.00	0.00		0.13	0.13		-			0.00	0.00		0.75	0.75		-	
Fisher's		Power	---		Power-50%		---	P-value		0.419	Power	---		Power-50%		---	P-value		0.409	Power	---		Power-50%		---	P-value		0.409
Stouffer's		Power	---		Power-50%		---	P-value		0.244	Power	---		Power-50%		---	P-value		0.236	Power	---		Power-50%		---	P-value		0.236

(b) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Halosaccion glandiforme (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P	Callithamnion pikeanum (A) N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.10	0.10		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.232	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	0.42	0.42	5	0.00	0.00	-	+	0.363	6	0.00	0.00	5	2.50	2.50	-	-	0.374	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.10	0.10		0.00	0.00		+			0.00	0.00		0.63	0.63		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.483	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.232	Power	---		Power-50%		---	P-value		0.237	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	4	0.00	0.00	5	0.50	0.50	-	-	0.374	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	1	0.00	--	3	2.50	2.50	-	-	---	1	0.00	--	3	0.00	0.00	-	o	---	1	0.00	--	3	0.00	0.00	-	o	---
Habitat Means			0.00	0.00		0.75	0.75		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.409	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.236	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.214. Algal Percent Cover. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared June 1990. (Continued.)

		Polysiphonia/Pterosiphonia (A) (a)								Morphological Group: Crustose Reds								Crustose Coralline Algae (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.83	0.53	6	3.33	3.33	-	-	0.778	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.20	0.13		0.83	0.83		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		*0.698*	*Power*	*0.000*		Power-50%		*0.016*	P-value		*0.642*	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.004		Power-50%		0.000	P-value		0.410	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	0.00	0.00	5	2.50	2.50	-	-	0.374	6	0.00	0.00	5	0.50	0.50	-	-	0.374	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.63	0.63		-			0.00	0.00		0.13	0.13		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.483	Power	---		Power-50%		---	P-value		0.483	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.237	Power	---		Power-50%		---	P-value		0.237	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.63	0.63	5	1.50	1.00	-	-	0.585	4	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	1	0.00	--	3	0.00	0.00	-	o	---	1	0.00	--	3	0.00	0.00	-	o	---	1	0.00	--	3	0.00	0.00	-	o	---
Habitat Means			0.00	0.00		0.00	0.00		o			0.15	0.20		0.38	0.25		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.005		Power-50%		---	P-value		0.514	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.002		Power-50%		---	P-value		0.329	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Petrocelis (P)																									
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
31252C/31248	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000																	
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000																	
99826C/33141	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000																	
Habitat Means			0.20	0.13		0.83	0.83		-																		
Fisher's		Power	0.001		Power-50%		0.019	P-value		0.642	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.001		Power-50%		0.000	P-value		0.410	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
30196C/30196	2	6	0.00	0.00	5	0.50	0.50	-	-	0.374																	
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000																	
31252C/31252	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000																	
99826C/33141	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000																	
Habitat Means			0.00	0.00		0.13	0.13		-																		
Fisher's		Power	---		Power-50%		---	P-value		0.483	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.237	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
30196C/30196	3	4	0.63	0.63	5	1.50	1.00	-	-	0.585																	
31252C/31248	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000																	
31252C/31252	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000																	
99826C/33141	3	1	0.00	--	3	0.00	0.00	-	o	---																	
Habitat Means			0.15	0.20		0.38	0.25		-																		
Fisher's		Power	0.004		Power-50%		---	P-value		0.514	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.001		Power-50%		---	P-value		0.329	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

O = oiled mean; CV coefficient of variation;
insufficient data.

30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	2.50	1.71	6	0.00	0.00	-	+	0.183	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	14.17	5.97	5	0.50	0.50	-	+	0.025	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	14.17	5.97	6	20.42	5.97	-	-	0.376	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	3.33	1.24	5	2.50	1.58	-	+	0.560	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			8.55	3.72		5.85	2.03		+			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.036	Power	---		Power-50%		---	P-value		0.698
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.032	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	1.00	1.00	-	-	0.374	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	8.33	2.71	6	8.33	3.14	-	+	0.821	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	8.33	2.71	6	23.75	9.19	-	-	0.112	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	10.00	3.65	4	2.50	1.77	-	+	0.139	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			6.65	2.28		8.90	3.78		-			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.698	Power	0.153		Power-50%		0.558	P-value		0.243	Power	---		Power-50%		---	P-value		0.698
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	0.057		Power-50%		0.641	P-value		0.142	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	2.50	2.50	5	0.00	0.00	-	+	0.391	4	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	6.25	3.01	5	8.50	2.03	-	-	0.347	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	6.25	3.01	6	15.83	8.23	-	-	0.419	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	1	0.00	--	3	0.00	0.00	-	o	---	1	0.00	--	3	26.67	26.67	-	-	---	1	0.00	--	3	0.00	0.00	-	o	---
Habitat Means			0.00	0.00		0.00	0.00		o			3.78	2.83		12.75	9.22		-			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power	0.133		Power-50%		0.422	P-value		0.315	Power	---		Power-50%		---	P-value		0.655
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	0.086		Power-50%		0.519	P-value		0.486	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

			Mytilus							Littorinidae								Porifera							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.42	0.42	6	0.42	0.42	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.42	0.42	5	0.50	0.50	-	-	0.900	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	1.25	0.85	5	0.50	0.50	-	+	0.565	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.63	0.53		0.35	0.35		+			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.698	Power	0.051		Power-50%		0.233	P-value		0.384	Power	---		Power-50%		---	P-value		0.698
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	0.100		Power-50%		0.416	P-value		0.379	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.83	0.83	5	0.00	0.00	-	+	0.363	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.25	0.85	6	1.25	0.56	-	o	0.784	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.25	0.85	6	1.25	0.85	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	9.17	5.87	4	0.00	0.00	-	+	0.123	6	0.42	0.42	4	0.00	0.00	-	+	0.363	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			2.30	1.48		0.00	0.00		-			0.95	0.75		0.65	0.38		+			0.00	0.00		0.00	0.00		o	
Fisher's	Power		0.001		Power-50%		0.001	P-value		0.284	Power	0.057		Power-50%		0.441	P-value		0.325	Power	---		Power-50%		---	P-value		0.698
Stouffer's	Power		0.000		Power-50%		0.000	P-value		0.455	Power	0.101		Power-50%		0.618	P-value		0.251	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.50	0.50	-	-	0.374	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.83	0.53	-	-	0.175	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	1	0.00	--	3	0.00	0.00	-	o	---	1	0.00	--	3	0.00	0.00	-	o	---	1	0.00	--	3	0.00	0.00	-	o	---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.33	0.25		-			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power	0.144		Power-50%		---	P-value		0.142	Power	---		Power-50%		---	P-value		0.655
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	0.144		Power-50%		---	P-value		0.184	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.215. Algal Percent Cover. Invertebrates. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared June 1990. (Continued.)

		Cnideria								Mollusca																			
Site Pair	Nvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000										
31252C/31248	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000										
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000										
99826C/33141	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000										
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o											
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			
30196C/30196	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000										
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000										
31252C/31252	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000										
99826C/33141	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000										
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o											
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			
30196C/30196	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000										
31252C/31248	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000										
31252C/31252	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000										
99826C/33141	3	1	0.00	--	3	0.00	0.00	-	o	---	1	0.00	--	3	0.00	0.00	-	o	---										
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o											
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.216. Algal Percent Cover. Substrates. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared June 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Rock								Mud								Sand							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	75.83	11.04	6	62.50	12.57	-	+	0.389	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	75.00	8.97	5	91.50	5.04	-	-	0.192	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	1	6	75.00	8.97	6	79.58	5.97	-	-	0.885	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	95.42	1.87	5	93.00	3.74	-	+	0.776	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	4.00	4.00	-	-	0.374
Habitat Means			80.30	7.73		81.65	6.82		-			0.00	0.00					o			0.00	0.00		1.00	1.00		-	
Fisher's		Power	0.095		Power-50%		1.000	P-value		0.460	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.483
Stouffer's		Power	0.042		Power-50%		1.000	P-value		0.521	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.474
30196C/30196	2	6	56.67	14.54	5	56.00	9.10	-	+	0.796	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	2	6	79.17	7.38	6	87.50	4.56	-	-	0.526	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	6	79.17	7.38	6	73.75	8.94	-	+	0.558	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	61.25	12.89	4	96.88	2.37	-	-	0.035	6	3.75	1.80	4	0.00	0.00	-	+	0.080	6	0.42	0.42	4	0.00	0.00	-	+	0.363
Habitat Means			69.10	10.55		78.55	6.25		-			0.95	0.45		0.00	0.00		+			0.10	0.10		0.00	0.00		+	
Fisher's		Power	0.296		Power-50%		0.998	P-value		0.133	Power	0.035		Power-50%		0.025	P-value		0.226	Power	---		Power-50%		---	P-value		0.477
Stouffer's		Power	0.261		Power-50%		0.998	P-value		0.487	Power	0.011		Power-50%		0.006	P-value		0.449	Power	---		Power-50%		---	P-value		0.474
30196C/30196	3	4	26.25	13.01	5	30.00	9.45	-	-	0.849	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	3	6	90.83	2.79	5	87.50	1.37	-	+	0.277	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	3	6	90.83	2.79	6	74.58	9.56	-	+	0.217	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	1	92.50	--	3	42.50	28.98	-	+	---	1	7.50	--	3	0.00	0.00	-	+	---	1	0.00	--	3	0.00	0.00	-	o	---
Habitat Means			75.10	6.20		58.65	12.38		+			1.88	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.071		Power-50%		0.974	P-value		0.148	Power	---		Power-50%		---	P-value		0.655 y	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.078		Power-50%		0.986	P-value		0.213	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Shell Fragments								Filamentous Diatoms								Zostera/Phyllospadix							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	2	6	0.42	0.42	6	0.42	0.42	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.20	0.20		0.10	0.10		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.373	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	3.50	3.50	-	-	0.374	4	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	3	6	0.42	0.42	5	0.00	0.00	-	+	0.363	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	1	0.00	--	3	0.00	0.00	-	o	---	1	0.00	--	3	0.00	0.00	-	o	---	1	0.00	--	3	0.00	0.00	-	o	---
Habitat Means			0.20	0.27		0.00	0.00		+			0.00	0.00		0.88	0.88		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.223	Power	---		Power-50%		---	P-value		0.409	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.226	Power	---		Power-50%		---	P-value		0.236	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.216. Algal Percent Cover. Totals and Seasonal Groups. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared June 1990. (Continued.)

		Sand and Mud								Total Substrate																			
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	75.83	11.04	6	62.50	12.57	-	-	0.389										
31252C/31248	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	75.00	8.97	5	91.50	5.04	-	-	0.192										
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	75.00	8.97	6	79.58	5.97	-	-	0.885										
99826C/33141	1	6	0.00	0.00	5	4.00	4.00	-	-	0.374	6	95.42	1.87	5	97.00	2.00	-	-	0.512										
Habitat Means			0.00	0.00		1.00	1.00		-			80.30	7.73		82.65	6.40		-											
Fisher's	Power		---		Power-50%		---	P-value		0.483	Power	0.115		Power-50%		1.000	P-value		0.304	Power	---		Power-50%		---	P-value			
Stouffer's	Power		---		Power-50%		---	P-value		0.474	Power	0.053		Power-50%		1.000	P-value		0.494	Power	---		Power-50%		---	P-value			
30196C/30196	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	56.67	14.54	5	56.00	9.10	-	+	0.796										
31252C/31248	2	6	0.42	0.42	6	0.42	0.42	-	o	1.000	6	79.58	7.08	6	87.92	4.44	-	-	0.511										
31252C/31252	2	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	79.58	7.08	6	73.75	8.94	-	+	0.536										
99826C/33141	2	6	4.17	1.90	4	0.00	0.00	-	+	0.077	6	65.42	11.73	4	96.88	2.37	-	-	0.023										
Habitat Means			1.25	0.68		0.10	0.10		-			70.33	10.10		78.65	6.20		-											
Fisher's	Power		0.248		Power-50%		0.190	P-value		0.122	Power	0.358		Power-50%		0.951	P-value		0.101	Power	---		Power-50%		---	P-value			
Stouffer's	Power		0.269		Power-50%		0.267	P-value		0.325	Power	0.291		Power-50%		0.970	P-value		0.482	Power	---		Power-50%		---	P-value			
30196C/30196	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	26.25	13.01	5	30.00	9.45	-	-	0.849										
31252C/31248	3	6	0.42	0.42	5	0.00	0.00	-	+	0.363	6	91.25	2.80	5	87.50	1.37	-	-	0.236										
31252C/31252	3	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	91.25	2.80	6	74.58	9.56	-	+	0.201										
99826C/33141	3	1	7.50	--	3	0.00	0.00	-	+	---	1	100.00	--	3	42.50	28.98	-	-	---										
Habitat Means			2.08	0.27		0.00	0.00		+			77.22	6.20		58.65	12.38		+											
Fisher's	Power		---		Power-50%		---	P-value		0.223	Power	0.069		Power-50%		0.968	P-value		0.126	Power	---		Power 50%		---	P-value			
Stouffer's	Power		---		Power-50%		---	P-value		0.226	Power	0.081		Power-50%		0.978	P-value		0.195	Power	---		Power-50%		---	P-value			

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.217. Algal Percent Cover. Totals and Seasonal Groups. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared August 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Algal Diversity Index (a)							Algal Taxa Richness (b)								Total Algae							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.14	0.09	6	0.00	0.00	-	+	0.192	6	1.00	0.68	6	1.00	0.00	-	o	1.000	6	16.25	15.27	6	12.08	5.22	-	+	0.746
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.33	0.21	6	0.33	0.21	-	o	1.000	6	5.83	3.91	6	1.67	1.24	-	+	0.516
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.33	0.21	6	0.00	0.00	-	+	0.175	6	5.83	3.91	6	0.00	0.00	-	+	0.181
99826C/33141	1	6	0.05	0.05	4	0.06	0.06	-	-	0.878	6	0.33	0.33	4	0.75	0.48	-	-	0.480	6	6.25	6.25	4	6.88	4.72	-	-	0.658
Habitat Means			0.05	0.03		0.02	0.02		-			0.50	0.36		0.52	0.17		+			8.55	7.35		5.17	2.78		+	
Fisher's		Power	0.014		Power-50%		0.019	P-value		0.376	Power	0.048		Power-50%		0.685	P-value		0.414 y	Power	0.034		Power-50%		0.422	P-value		0.246
Stouffer's		Power	0.014		Power-50%		0.028	P-value		0.149	Power	0.043		Power-50%		0.817	P-value		0.333	Power	0.075		Power-50%		0.692	P-value		0.157
30196C/30196	2	4	0.07	0.07	5	0.22	0.10	-	-	0.292	4	0.75	0.48	5	2.60	0.81	-	-	0.110	4	4.38	3.59	5	57.00	16.25	-	-	0.029
31252C/31248	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.40	0.24	6	0.33	0.21	-	+	0.840	5	8.50	6.78	6	7.08	5.72	-	+	0.856
31252C/31252	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.40	0.24	6	0.00	0.00	-	+	0.178	5	8.50	6.78	6	0.00	0.00	-	-	0.219
99826C/33141	2	6	0.03	0.03	3	0.00	0.00	-	+	0.363	6	0.83	0.31	3	0.67	0.33	-	+	0.749	6	13.33	5.90	3	20.83	18.39	-	-	0.773
Habitat Means			0.03	0.03		0.06	0.03		-			0.60	0.32		0.90	0.34		+			8.68	5.77		21.23	10.10		-	
Fisher's		Power	0.013		Power-50%		---	P-value		0.534	Power	0.071		Power-50%		0.711	P-value		0.372 y	Power	0.096		Power-50%		0.339	P-value		0.164
Stouffer's		Power	0.001		Power-50%		---	P-value		0.217	Power	0.013		Power-50%		0.793	P-value		0.754	Power	0.042		Power-50%		0.507	P-value		0.104
30196C/30196	3	4	0.38	0.14	4	0.34	0.20	-	+	0.881	4	3.00	1.08	4	3.75	1.60	-	-	0.711	4	40.00	14.97	4	56.88	21.64	-	-	0.485
31252C/31248	3	5	0.00	0.00	6	0.04	0.04	-	-	0.363	5	0.00	0.00	6	0.33	0.33	-	-	0.363	5	0.00	0.00	6	9.17	9.17	-	-	0.363
31252C/31252	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.33	0.21	-	-	0.175	5	0.00	0.00	6	4.58	3.68	-	-	0.210
99826C/33141	3	4	0.15	0.10	2	0.16	0.16	-	-	0.959	4	1.75	0.48	2	3.00	2.00	-	-	0.428	4	68.75	16.28	2	60.00	27.50	-	+	0.799
Habitat Means			0.13	0.06		0.14	0.10		-			1.19	0.39		1.85	1.04		-			27.20	7.83		32.68	15.50		-	
Fisher's		Power	0.027		Power-50%		0.145	P-value		0.491	Power	---		Power-50%		---	P-value		0.098	Power	0.109		Power-50%		0.154	P-value		0.162
Stouffer's		Power	0.039		Power-50%		0.135	P-value		0.379	Power	0.273		Power-50%		0.295	P-value		0.103	Power	---		Power-50%		---	P-value		0.078

(a) Modified Shannon Index.
(b) Taxa richness calculations are explained in the methods.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Invertebrates							Rock								Perennials (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	1.25	0.85	6	1.67	0.83	-	-	0.662	6	82.50	15.03	6	86.25	5.94	-	-	0.882	6	16.25	15.27	6	12.08	5.22	-	+	0.746
31252C/31248	1	6	3.75	2.39	6	7.50	3.98	-	-	0.466	6	90.42	5.90	6	90.83	3.80	-	-	0.819	6	5.83	3.91	6	1.67	1.24	-	+	0.516
31252C/31252	1	6	3.75	2.39	6	16.25	5.35	-	-	0.016	6	90.42	5.90	6	83.75	5.35	-	+	0.204	6	5.83	3.91	6	0.00	0.00	-	+	0.181
99826C/33141	1	6	5.83	2.47	4	3.75	2.39	-	-	0.617	6	87.92	8.25	4	88.75	7.25	-	-	0.932	6	2.50	2.50	4	6.88	4.72	-	-	0.359
Habitat Means			3.68	2.05		7.33	3.15		-			87.80	8.78		87.42	5.60		-			7.60	6.40		5.17	2.78		-	
Fisher's		Power	---		Power-50%		---	P-value		0.050	Power	0.134		Power-50%		0.979	P-value		0.740 y	Power	0.025		Power-50%		0.404	P-value		0.274
Stouffer's		Power	---		Power-50%		---	P-value		0.065	Power	0.113		Power-50%		0.992	P-value		0.588	Power	0.044		Power-50%		0.682	P-value		0.165
30196C/30196	2	4	2.50	2.50	5	1.50	1.50	-	+	0.800	4	93.13	4.00	5	41.00	16.99	-	+	0.039	4	4.38	3.59	5	45.50	18.07	-	-	0.070
31252C/31248	2	5	90.00	6.47	6	36.67	16.95	-	+	0.021	5	1.50	1.50	6	56.25	15.37	-	-	0.006	5	8.50	6.78	6	7.08	5.72	-	-	0.856
31252C/31252	2	5	90.00	6.47	6	100.00	0.00	-	-	0.112	5	1.50	1.50	6	0.00	0.00	-	+	0.374	5	8.50	6.78	6	0.00	0.00	-	-	0.219
99826C/33141	2	6	12.08	3.62	3	2.50	2.50	-	+	0.132	6	72.50	5.12	3	76.67	20.88	-	-	0.468	6	12.50	5.48	3	20.83	18.39	-	-	0.739
Habitat Means			48.65	4.78		35.17	5.25		+			42.15	3.03		43.50	13.33		-			8.48	5.68		18.35	10.55		-	
Fisher's		Power	---		Power-50%		---	P-value		0.036	Power	---		Power-50%		---	P-value		0.056x	Power	0.075		Power-50%		0.313	P-value		0.261
Stouffer's		Power	0.548		Power-50%		0.951	P-value		0.206	Power	0.022		Power-50%		0.999	P-value		0.737	Power	0.030		Power-50%		0.492	P-value		0.168
30196C/30196	3	4	0.00	0.00	4	2.50	2.50	-	-	0.391	4	60.00	14.97	4	40.63	23.01	-	+	0.411	4	23.13	16.75	4	25.63	14.16	-	-	0.917
31252C/31248	3	5	99.50	0.50	6	82.50	11.40	-	+	0.113	5	0.50	0.50	6	8.33	3.52	-	-	0.064	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	3	5	99.50	0.50	6	80.00	12.26	-	+	0.153	5	0.50	0.50	6	15.42	8.86	-	-	0.143	5	0.00	0.00	6	4.58	3.68	-	-	0.210
99826C/33141	3	4	6.25	3.31	2	2.50	2.50	-	+	0.545	4	4.38	3.59	2	33.75	26.25	-	-	0.131	4	35.00	15.84	2	52.50	20.00	-	-	0.513
Habitat Means			51.32	1.08		41.87	7.18		+			16.35	4.90		24.53	15.43		-			14.53	8.15		20.67	9.48		-	
Fisher's		Power	---		Power-50%		---	P-value		0.084	Power	---		Power-50%		---	P-value		0.021	Power	0.127		Power-50%		0.032	P-value		0.253
Stouffer's		Power	0.196		Power-50%		0.813	P-value		0.273	Power	0.498		Power-50%		0.427	P-value		0.202	Power	0.176		Power-50%		0.036	P-value		0.281

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.217. Algal Percent Cover. Totals and Seasonal Groups. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared August 1990. (Continued.)

		Annuals (A)								Ephemerals (AE)																			
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
99826C/33141	1	6	3.75	3.75	4	0.00	0.00	-	+	0.363	6	0.00	0.00	4	0.00	0.00	-	o	1.000									
Habitat Means			0.95	0.95		0.00	0.00		+			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.474	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
30196C/30196	2	4	0.00	0.00	5	11.50	8.57	-	-	0.150	4	0.00	0.00	5	0.00	0.00	-	o	1.000									
31252C/31248	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
31252C/31252	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
99826C/33141	2	6	0.83	0.83	3	0.00	0.00	-	-	0.363	6	0.00	0.00	3	0.00	0.00	-	o	1.000									
Habitat Means			0.20	0.20		2.88	2.15		-			0.00	0.00		0.00	0.00		o										
Fisher's		Power	0.001		Power-50%		---	P-value		0.400	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.000		Power-50%		---	P-value		0.137	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
30196C/30196	3	4	16.88	9.86	4	31.25	22.40	-	-	0.656	4	13.13	7.59	4	6.25	6.25	-	-	0.522									
31252C/31248	3	5	0.00	0.00	6	9.17	9.17	-	-	0.363	5	0.00	0.00	6	9.17	9.17	-	-	0.363									
31252C/31252	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
99826C/33141	3	4	33.75	19.32	2	7.50	7.50	-	+	0.430	4	25.00	21.04	2	1.25	1.25	-	+	0.507									
Habitat Means			12.68	7.30		12.00	9.78		-			9.53	7.15		4.20	4.20												
Fisher's		Power	0.008		Power-50%		0.039	P-value		0.482 y	Power	0.010		Power-50%		0.020	P-value		0.514	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.009		Power-50%		0.041	P-value		0.234	Power	0.005		Power-50%		0.023	P-value		0.445	Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.218. Algal Percent Cover. Chlorophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared August 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta							Morphological Group: Bladed Greens								Bladed Greens (AE) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	4	13.13	7.59	4	6.88	6.88	-	+	0.552	4	1.88	1.20	4	6.25	6.25	-	-	0.815	4	1.88	1.20	4	6.25	6.25	-	-	0.815
31252C/31248	3	5	0.00	0.00	6	6.67	6.67	-	-	0.363	5	0.00	0.00	6	6.67	6.67	-	-	0.363	5	0.00	0.00	6	6.67	6.67	-	-	0.363
31252C/31252	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	4	25.00	21.04	2	1.25	1.25	-	+	0.507	4	25.00	21.04	2	1.25	1.25	-	+	0.507	4	25.00	21.04	2	1.25	1.25	-	+	0.507
Habitat Means			9.53	7.15		3.72	3.72		+			6.73	5.55		3.58	3.58		-			6.73	5.55		3.58	3.58		-	
Fisher's		Power	0.007		Power-50%		0.017	P-value		0.525	Power	0.002		Power-50%		0.023	P-value		0.518 y	Power	0.003		Power-50%		0.018	P-value		0.518 y
Stouffer's		Power	0.003		Power-50%		0.023	P-value		0.459	Power	0.005		Power-50%		0.025	P-value		0.286	Power	0.006		Power-50%		0.022	P-value		0.286

(a) Kornmannia, Monostroma, Ulva and Ulvaria.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Fine Filamentous Greens									Acrosiphonia sp. (A)									Chaetomorpha/Rhizoclonium (A) (a)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	4	3.75	3.75	4	0.63	0.63	-	+	0.597	4	0.00	0.00	4	0.63	0.63	-	-	0.391	4	0.00	0.00	4	0.00	0.00	-	o	1.000
31252C/31248	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.95	0.95		0.15	0.15		+			0.00	0.00		0.15	0.15		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.583	Power	---		Power-50%		---	P-value		0.492	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.335	Power	---		Power-50%		---	P-value		0.245	Power	---		Power-50%		---	P-value		0.500

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.218. Algal Percent Cover. Chlorophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared August 1990. (Continued.)

		Cladophora sp. (AE)								Ulothrix sp. (AE)								Urospora sp. (AE)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	3.75	3.75	4	0.00	0.00	-	-	0.392
31252C/31248	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.95	0.95		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.492
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.245

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Tubular and Saccate Greens								Blidingia/Enteromorpha (AE) (a)															
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
99826C/33141	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
30196C/30196	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000									
31252C/31248	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
31252C/31252	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
99826C/33141	2	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
30196C/30196	3	4	7.50	5.30	4	0.00	0.00	-	+	0.206	4	7.50	5.30	4	0.00	0.00	-	+	0.206									
31252C/31248	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
31252C/31252	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
99826C/33141	3	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	0.00	0.00	2	0.00	0.00	-	o	1.000									
Habitat Means			1.88	1.32		0.00	0.00		+			1.88	1.32		0.00	0.00		+										
Fisher's		Power	0.004		Power-50%		0.008	P-value		0.368	Power	0.005		Power-50%		0.007	P-value		0.368	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.001		Power-50%		0.004	P-value		0.154	Power	0.001		Power-50%		0.000	P-value		0.154	Power	---		Power-50%		---	P-value		

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.219. Algal Percent Cover. Phaeophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared August 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group: Bladed Browns								Alaria sp. (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	6.67	6.67	6	11.25	5.51	-	-	0.254	6	6.67	6.67	6	11.25	5.51	-	-	0.254	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	5.83	3.91	6	1.67	1.24	-	+	0.516	6	5.83	3.91	6	1.67	1.24	-	+	0.516	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	5.83	3.91	6	0.00	0.00	-	+	0.181	6	5.83	3.91	6	0.00	0.00	-	-	0.181	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	2.50	2.50	4	3.13	1.88	-	-	0.573	6	2.50	2.50	4	3.13	1.88	-	-	0.573	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			5.20	4.25		4.03	2.15		+			5.20	4.25		4.03	2.15		+			0.00	0.00		0.00	0.00		o	
Fisher's	Power		0.063		Power-50%		0.458	P-value		0.390	Power		0.066		Power-50%		0.446	P-value	0.390	Power	---		Power-50%		---	P-value		0.698
Stouffer's	Power		0.092		Power-50%		0.610	P-value		0.572	Power		0.085		Power-50%		0.620	P-value	0.572	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	4	3.13	2.37	5	11.50	10.30	-	-	0.661	4	3.13	2.37	5	11.50	10.30	-	-	0.661	4	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	2	5	8.50	6.78	6	7.08	5.72	-	+	0.856	5	8.50	6.78	6	7.08	5.72	-	+	0.856	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	5	8.50	6.78	6	0.00	0.00	-	+	0.219	5	8.50	6.78	6	0.00	0.00	-	+	0.219	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	9.58	5.72	3	1.67	1.67	-	+	0.452	6	9.58	5.72	3	1.67	1.67	-	+	0.452	6	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			7.43	5.43		5.08	4.43		+			7.43	5.43		5.08	4.43		+			0.00	0.00		0.00	0.00		o	
Fisher's	Power		0.095		Power-50%		0.378	P-value		0.272	Power		0.084		Power-50%		0.390	P-value	0.272	Power	---		Power-50%		---	P-value		0.698
Stouffer's	Power		0.143		Power-50%		0.531	P-value		0.411	Power		0.137		Power-50%		0.557	P-value	0.411	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	4	16.25	10.08	4	12.50	8.84	-	+	0.717	4	16.25	10.08	4	12.50	8.84	-	+	0.717	4	0.00	0.00	4	3.13	3.13	-	-	0.391
31252C/31248	3	5	0.00	0.00	6	2.50	2.50	-	-	0.363	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	3	5	0.00	0.00	6	4.58	3.68	-	-	0.210	5	0.00	0.00	6	4.58	3.68	-	-	0.210	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	4	23.13	17.12	2	56.25	23.75	-	-	0.285	4	23.13	17.12	2	51.25	18.75	-	-	0.325	4	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			9.85	6.80		18.98	9.70		-			9.85	6.80		17.10	7.83		-			0.00	0.00		0.78	0.78		-	
Fisher's	Power		0.280		Power-50%		0.028	P-value		0.122	Power		0.152		Power-50%		0.036	P-value	0.237	Power	---		Power-50%		---	P-value		0.492
Stouffer's	Power		0.349		Power-50%		0.027	P-value		0.255	Power		0.180		Power-50%		0.036	P-value	0.410	Power	---		Power-50%		---	P-value		0.245

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Fucus gardneri (P)								Adult Fucus gardneri (P) (> 2cm)								Juvenile Fucus gardneri (P) (<= 2cm)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	6.67	6.67	6	11.25	5.51	-	-	0.254	6	6.67	6.67	6	7.92	6.04	-	-	0.670	6	0.00	0.00	6	3.33	1.79	-	-	0.091
31252C/31248	1	6	5.83	3.91	6	1.67	1.24	-	+	0.516	6	5.83	3.91	6	1.67	1.24	-	+	0.516	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	5.83	3.91	6	0.00	0.00	-	+	0.181	6	5.83	3.91	6	0.00	0.00	-	+	0.181	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	2.50	2.50	4	3.13	1.88	-	-	0.573	6	2.50	2.50	4	0.00	0.00	-	+	0.363	6	0.00	0.00	4	3.13	1.88	-	-	0.185
Habitat Means			5.20	4.25		4.03	2.15		+			5.20	4.25		2.40	1.80		+			0.00	0.00		1.60	0.93		-	
Fisher's	Power		0.070		Power-50%		0.441	P-value		0.390	Power		0.167		Power-50%		0.448	P-value	0.163	Power	---		Power-50%		---	P-value		0.090
Stouffer's	Power		0.098		Power-50%		0.620	P-value		0.572	Power		0.287		Power-50%		0.619	P-value	0.307	Power	---		Power-50%		---	P-value		0.072
30196C/30196	2	4	3.13	2.37	5	11.50	10.30	-	-	0.661	4	3.13	2.37	5	11.50	10.30	-	-	0.661	4	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	2	5	8.50	6.78	6	7.08	5.72	-	+	0.856	5	8.50	6.78	6	7.08	5.72	-	+	0.856	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	5	8.50	6.78	6	0.00	0.00	-	+	0.219	5	8.50	6.78	6	0.00	0.00	-	+	0.219	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	9.58	5.72	3	1.67	1.67	-	+	0.452	6	9.58	5.72	3	1.67	1.67	-	+	0.452	6	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			7.43	5.43		5.08	4.43		+			7.43	5.43		5.08	4.43		+			0.00	0.00		0.00	0.00		o	
Fisher's	Power		0.084		Power-50%		0.355	P-value		0.272	Power		0.088		Power-50%		0.418	P-value	0.272	Power	---		Power-50%		---	P-value		0.698
Stouffer's	Power		0.139		Power-50%		0.508	P-value		0.411	Power		0.140		Power-50%		0.582	P-value	0.411	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	4	16.25	10.08	4	9.38	9.38	-	+	0.469	4	16.25	10.08	4	9.38	9.38	-	+	0.469	4	0.00	0.00	4	0.00	0.00	-	o	1.000
31252C/31248	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	3	5	0.00	0.00	6	4.58	3.68	-	-	0.210	5	0.00	0.00	6	4.58	3.68	-	-	0.210	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	4	23.13	17.12	2	51.25	18.75	-	-	0.325	4	23.13	17.12	2	51.25	18.75	-	-	0.325	4	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			9.85	6.80		16.33	7.98		-			9.85	6.80		16.33	7.98		-			0.00	0.00		0.00	0.00		o	
Fisher's	Power		0.124		Power-50%		0.023	P-value		0.261	Power		0.119		Power-50%		0.031	P-value	0.261	Power	---		Power-50%		---	P-value		0.698
Stouffer's	Power		0.130		Power-50%		0.030	P-value		0.526	Power		0.124		Power-50%		0.039	P-value	0.526	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.219. Algal Percent Cover. Phaeophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared August 1990. (Continued.)

Site	Mvt	N	Fucus Stipes (P) (a) C	SE	N	O	SE	CV	D	P	Morphological Group: Coarse Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.42	0.42	3	0.00	0.00	-	+	0.363	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.10	0.10		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.474	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000
31252C/31248	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	4	0.00	0.00	2	2.50	2.50	-	-	0.500	4	0.00	0.00	2	5.00	5.00	-	-	0.500	4	0.00	0.00	2	5.00	5.00	-	-	0.500
Habitat Means			0.00	0.00		0.63	0.63		-			0.00	0.00		1.25	1.25		-			0.00	0.00		1.25	1.25		-	
Fisher's		Power	---		Power-50%		---	P-value		0.544	Power	---		Power-50%		---	P-value		0.544	Power	---		Power-50%		---	P-value		0.544
Stouffer's		Power	---		Power-50%		---	P-value		0.480	Power	---		Power-50%		---	P-value		0.480	Power	---		Power-50%		---	P-value		0.480

(a) Dead Fucus plantsor stipes without blades.

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair

Site Pair	Mvt	N	Morphological Group: Fine Filamentous Browns C	SE	N	O	SE	CV	D	P	Fine Filamentous Browns (AE) (b) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Crustose Browns N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000
31252C/31248	3	5	0.00	0.00	6	2.50	2.50	-	-	0.363	5	0.00	0.00	6	2.50	2.50	-	-	0.363	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.63	0.63		-			0.00	0.00		0.63	0.63		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.336	Power	---		Power-50%		---	P-value		0.336	Power	---		Power-50%		---	P-value		0.500

(b) Blachista, Ectocarpus and Pilayella.

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.219. Algal Percent Cover. Phaeophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared August 1990. (Continued.)

Site Pair	Mvd	Ralfsia/Petroderma (P) (a) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
99826C/33141	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
30196C/30196	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000																		
31252C/31248	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000																		
31252C/31252	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000																		
99826C/33141	2	6	0.00	0.00	3	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
30196C/30196	3	4	0.00	0.00	4	0.00	0.00	-	o	1.000																		
31252C/31248	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000																		
31252C/31252	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000																		
99826C/33141	3	4	0.00	0.00	2	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.220. Algal Percent Cover. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared August 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group: Bladed Reds								Gigartinaceae Group (P) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	9.58	8.62	6	0.83	0.83	-	+	0.351	6	2.08	1.64	6	0.00	0.00	-	+	0.204	6	2.08	1.64	6	0.00	0.00	-	+	0.204
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	3.75	3.75	4	3.75	3.75	-	-	0.899	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			3.35	3.10		1.15	1.15		+			0.52	0.40		0.00	0.00		+			0.52	0.40		0.00	0.00		+	
Fisher's		Power	0.001		Power-50%		0.000	P-value		0.489	Power	0.000		Power-50%		0.000	P-value		0.366	Power	0.000		Power-50%		0.000	P-value		0.366
Stouffer's		Power	0.001		Power-50%		0.001	P-value		0.229	Power	0.000		Power-50%		0.000	P-value		0.153	Power	0.000		Power-50%		0.000	P-value		0.153
30196C/30196	2	4	1.25	1.25	5	45.50	19.58	-	-	0.087	4	0.00	0.00	5	18.00	10.59	-	-	0.127	4	0.00	0.00	5	17.50	10.25	-	-	0.126
31252C/31248	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	3.75	2.87	3	19.17	19.17	-	-	0.441	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			1.28	1.05		16.17	9.70		-			0.00	0.00		4.50	2.65		-			0.00	0.00		4.37	2.57		-	
Fisher's		Power	0.076		Power-50%		0.006	P-value		0.149	Power	0.001		Power-50%		---	P-value		0.289	Power	0.001		Power-50%		---	P-value		0.288
Stouffer's		Power	---		Power-50%		---	P-value		0.076	Power	0.000		Power-50%		---	P-value		0.110	Power	0.000		Power-50%		---	P-value		0.109
30196C/30196	3	4	10.63	5.98	4	37.50	21.46	-	-	0.362	4	8.75	4.27	4	16.88	11.34	-	-	0.654	4	5.00	5.00	4	4.37	2.95	-	-	0.840
31252C/31248	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	4	20.62	20.62	2	2.50	2.50	-	+	0.711	4	0.00	0.00	2	1.25	1.25	-	-	0.500	4	0.00	0.00	2	1.25	1.25	-	-	0.500
Habitat Means			7.80	6.65		10.00	6.00		-			2.20	1.08		4.55	3.15		-			1.25	1.25		1.43	1.08		-	
Fisher's		Power	0.012		Power-50%		0.031	P-value		0.529	Power	0.018		Power-50%		0.016	P-value		0.455	Power	0.017		Power-50%		---	P-value		0.577
Stouffer's		Power	0.006		Power-50%		0.037	P-value		0.240	Power	0.015		Power-50%		0.005	P-value		0.341	Power	0.016		Power-50%		---	P-value		0.545

(a) Chondrus, Iridaea, Mastocarpus and Rhodoglossum.
x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Palmaria spp. (A)								Phycodrys riggii (A)								Porphyra sp. (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	4	2.50	2.50	4	11.87	11.87	-	-	0.614	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	1.25	1.25	4	0.63	0.63	-	+	0.817
31252C/31248	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.63	0.63		2.98	2.98		-			0.00	0.00		0.00	0.00		o			0.33	0.33		0.15	0.15		+	
Fisher's		Power	---		Power-50%		---	P-value		0.589	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.653
Stouffer's		Power	---		Power-50%		---	P-value		0.343	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.426

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.220. Algal Percent Cover. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared August 1990. (Continued.)

		Tokidadendron kurilensis (A)								Morphological Group: Coarse Filamentous Reds								Cryptosiphonia woodii (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.25	1.25	6	0.00	0.00	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	3.75	3.75	4	3.75	3.75	-	-	0.899	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			1.28	1.28		0.95	0.95		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.497	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.235	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	1.25	1.25	5	6.50	4.23	-	-	0.303	4	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	3.75	2.87	3	19.17	19.17	-	-	0.441	6	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			1.28	1.05		6.43	5.85		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	0.058		Power-50%		0.009	P-value		0.296	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.067		Power-50%		0.012	P-value		0.188	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	1.88	1.88	4	5.00	5.00	-	-	0.742	4	0.00	0.00	4	3.13	3.13	-	-	0.391
31252C/31248	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	15.00	15.00	2	0.00	0.00	-	-	0.391	4	3.13	3.13	2	0.00	0.00	-	+	0.391
Habitat Means			0.00	0.00		0.00	0.00		o			4.23	4.23		1.25	1.25		+			0.78	0.78		0.78	0.78		-	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.541	Power	---		Power-50%		---	P-value		0.595 y
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.580	Power	---		Power-50%		---	P-value		0.265

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Endocladia muricata (P)								Gloiopeltis furcata (A)								Neorhodomela/Rhodomela (P) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	1.25	1.25	6	0.00	0.00	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	3.75	3.75	4	0.00	0.00	-	-	0.363	6	0.00	0.00	4	3.75	3.75	-	-	0.391
Habitat Means			0.33	0.33		0.00	0.00		+			0.95	0.95		0.00	0.00		+			0.00	0.00		0.95	0.95		-	
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.492
Stouffer's		Power	---		Power-50%		---	P-value		0.232	Power	---		Power-50%		---	P-value		0.474	Power	---		Power-50%		---	P-value		0.475
30196C/30196	2	4	1.25	1.25	5	0.00	0.00	-	+	0.391	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	6.50	4.23	-	-	0.116
31252C/31248	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.83	0.83	3	0.00	0.00	-	+	0.363	6	2.92	2.92	3	19.17	19.17	-	-	0.351
Habitat Means			0.33	0.33		0.00	0.00		+			0.20	0.20		0.00	0.00		+			0.72	0.72		6.43	5.85		-	
Fisher's		Power	---		Power-50%		---	P-value		0.492	Power	---		Power-50%		---	P-value		0.477	Power	0.054		Power-50%		---	P-value		0.154
Stouffer's		Power	---		Power-50%		---	P-value		0.245	Power	---		Power-50%		---	P-value		0.474	Power	---		Power-50%		---	P-value		0.091
30196C/30196	3	4	1.88	1.88	4	0.00	0.00	-	+	0.391	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000
31252C/31248	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	11.87	11.87	2	0.00	0.00	-	+	0.391
Habitat Means			0.48	0.48		0.00	0.00		+			0.00	0.00		0.00	0.00		o			2.98	2.98		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.492	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.492
Stouffer's		Power	---		Power-50%		---	P-value		0.245	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.475

(a) Genera not seperated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.220. Algal Percent Cover. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared August 1990. (Continued.)

		Odonthalia floccosa (P)								Ptilota/Neoptilota (P) (b)								Morphological Group: Saccate Reds							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	2.00	2.00	-	-	0.374
31252C/31248	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.50	0.50		-	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.483
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.237
30196C/30196	3	4	0.00	0.00	4	1.88	1.88	-	-	0.391	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	1.25	1.25	-	-	0.391
31252C/31248	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	0.00	0.00	2	1.25	1.25	-	-	0.500
Habitat Means			0.00	0.00		0.48	0.48		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.65	0.65		-	
Fisher's		Power	---		Power-50%		---	P-value		0.492	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.359
Stouffer's		Power	---		Power-50%		---	P-value		0.245	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.230

(b) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Halosaccion glandiforme (A)								Morphological Group: Fine Filamentous Reds								Callithamnion pikeanum (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	4	0.00	0.00	5	2.00	2.00	-	-	0.374	4	0.00	0.00	5	9.50	8.89	-	-	0.278	4	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.50	0.50		-			0.00	0.00		2.38	2.23		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.483	Power	0.000		Power-50%		---	P-value		0.423	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.237	Power	0.000		Power-50%		---	P-value		0.191	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	4	0.00	0.00	4	1.25	1.25	-	-	0.391	4	0.00	0.00	4	4.37	4.37	-	-	0.391	4	0.00	0.00	4	1.25	1.25	-	-	0.391
31252C/31248	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	4	0.00	0.00	2	1.25	1.25	-	-	0.500	4	5.62	5.63	2	0.00	0.00	-	+	0.391	4	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.65	0.65		-			1.40	1.40		1.10	1.10		-			0.00	0.00		0.33	0.33		-	
Fisher's		Power	---		Power-50%		---	P-value		0.359	Power	---		Power-50%		---	P-value		0.595 y	Power	---		Power-50%		---	P-value		0.492
Stouffer's		Power	---		Power-50%		---	P-value		0.230	Power	---		Power-50%		---	P-value		0.265	Power	---		Power-50%		---	P-value		0.245

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.220. Algal Percent Cover. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared August 1990. (Continued.)

		Polysiphonia/Pterosiphonia (A) (a)								Morphological Group: Crustose Reds								Crustose Coralline Algae (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	6.25	5.76	6	0.83	0.83	-	+	0.412	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			1.57	1.45		0.20	0.20		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	0.000		Power-50%		0.000	P-value		0.502	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.000	P-value		0.254	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	4	0.00	0.00	5	9.50	8.89	-	-	0.278	4	0.00	0.00	5	9.50	9.50	-	-	0.374	4	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		2.38	2.23		-			0.00	0.00		2.38	2.38		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		---	P-value		0.423	Power	---		Power-50%		---	P-value		0.483	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.000		Power-50%		---	P-value		0.191	Power	---		Power-50%		---	P-value		0.237	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	4	0.00	0.00	4	3.13	3.13	-	-	0.391	4	0.00	0.00	4	10.00	10.00	-	-	0.391	4	0.00	0.00	4	4.37	4.37	-	-	0.391
31252C/31248	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	4	5.62	5.63	2	0.00	0.00	-	+	0.391	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			1.40	1.40		0.78	0.78		-			0.00	0.00		2.50	2.50		-			0.00	0.00		1.10	1.10		-	
Fisher's		Power	---		Power-50%		---	P-value		0.595 y	Power	---		Power-50%		---	P-value		0.492	Power	---		Power-50%		---	P-value		0.492
Stouffer's		Power	---		Power-50%		---	P-value		0.265	Power	---		Power-50%		---	P-value		0.245	Power	---		Power-50%		---	P-value		0.245

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Petrocelis (P)																									
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000																	
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000																	
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000																	
99826C/33141	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000																	
Habitat Means			1.57	1.45		0.20	0.20		+																		
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.502	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.254	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
30196C/30196	2	4	0.00	0.00	5	9.50	9.50	-	-	0.374																	
31252C/31248	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000																	
31252C/31252	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000																	
99826C/33141	2	6	0.00	0.00	3	0.00	0.00	-	o	1.000																	
Habitat Means			0.00	0.00		2.38	2.38		-																		
Fisher's		Power	---		Power-50%		---	P-value		0.483	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.237	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
30196C/30196	3	4	0.00	0.00	4	5.62	5.63	-	-	0.391																	
31252C/31248	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000																	
31252C/31252	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000																	
99826C/33141	3	4	0.00	0.00	2	0.00	0.00	-	o	1.000																	
Habitat Means			0.00	0.00		1.40	1.40		-																		
Fisher's		Power	---		Power-50%		---	P-value		0.492	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.245	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.221. Algal Percent Cover. Invertebrates. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared August 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Actiniidae								Balanomorpha								Lottiidae							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.83	0.83	6	1.25	0.85	-	-	0.646	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	3.75	2.39	6	7.50	3.98	-	-	0.466	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	3.75	2.39	6	16.25	5.35	-	-	0.016	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	5.42	2.18	4	1.25	0.72	-	+	0.264	6	0.00	0.00	4	0.63	0.63	-	-	0.391
Habitat Means			0.00	0.00		0.00	0.00		o			3.45	1.95		6.60	2.75		-			0.00	0.00		0.15	0.15		-	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.057	Power	---		Power-50%		---	P-value		0.492
Stouffer's		*Power*	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.068	Power	---		Power-50%		---	P-value		0.475
30196C/30196	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	2.50	2.50	5	1.50	1.50	-	+	0.800	4	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	89.00	6.92	6	34.17	16.65	-	+	0.017	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	89.00	6.92	6	97.50	0.91	-	-	0.329	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	11.25	3.46	3	0.00	0.00	-	+	0.010	6	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			47.95	4.95		33.30	4.78		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.004	Power	---		Power-50%		---	P-value		*0.698*
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.752		Power-50%		0.974	P-value		0.123	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	1.25	1.25	-	-	0.391	4	0.00	0.00	4	0.63	0.63	-	-	0.391
31252C/31248	3	5	0.00	0.00	6	0.42	0.42	-	-	0.363	5	97.50	1.12	6	78.75	11.56	-	+	0.114	5	0.00	0.00	6	0.00	0.00		o	1.000
31252C/31252	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	97.50	1.12	6	78.75	11.88	-	+	0.161	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	0.63	0.63	2	1.25	1.25	-	-	0.633	4	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.10	0.10		-			48.90	0.70		40.05	6.52		+			0.00	0.00		0.15	0.15		-	
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	0.232		Power-50%		1.000	P-value		0.153	Power	---		Power-50%		---	P-value		0.492
Stouffer's		Power	---		Power-50%		---	P-value		0.336	Power	0.125		Power-50%		1.000	P-value		0.304	Power	---		Power-50%		---	P-value		0.245

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Mytilus								Littorinidae								Porifera							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
30196C/30196	1	6	*0.00*	*0.00*	6	*0.00*	*0.00*	-	o	*1.000*	6	0.42	0.42	6	0.42	0.42	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.42	0.42	4	1.88	1.88	-	-	0.522	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.20	0.20		0.57	0.57		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.553	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		*0.500*	Power	---		Power-50%		---	P-value		0.481	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	1.00	0.61	6	2.50	1.29	-	-	0.503	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	1.00	0.61	6	2.50	0.91	-	-	0.298	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.83	0.83	3	0.00	0.00	-	+	0.363	6	0.00	0.00	3	2.50	2.50	-	-	0.423	6	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.20	0.20		0.00	0.00		-			0.50	0.30		1.88	1.18		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	0.295		Power-50%		0.164	P-value		0.198	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.474	Power	0.379		Power-50%		0.160	P-value		0.229	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.63	0.63	-	-	0.391	4	0.00	0.00	4	0.00	0.00	-	o	1.000
31252C/31248	3	5	0.00	0.00	6	1.67	1.24	-	-	0.194	5	2.00	1.22	6	1.67	1.24	-	+	0.816	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	2.00	1.22	6	1.25	0.85	-	+	0.708	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	4	5.00	3.54	2	1.25	1.25	-	+	0.643	4	0.63	0.63	2	0.00	0.00	-	+	0.391	4	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			1.25	0.88		0.75	0.63		-			1.15	0.75		0.90	0.68		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.005		Power-50%		0.007	P-value		0.413 y	Power	0.047		Power-50%		0.335	P-value		0.477	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.005		Power-50%		0.002	P-value		0.283	Power	0.048		Power-50%		0.444	P-value		0.650	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.221. Algal Percent Cover. Invertebrates. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared August 1990. (Continued.)

		Cnideria								Mollusca															
Site Pair	Wgt	N	C	SE	N	Q	SE	CV	D	P	N	C	SE	N	Q	SE	CV	D	P	N	C	SE	N	Q	SE	CV	D	P
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
99826C/33141	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
30196C/30196	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000									
31252C/31248	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
31252C/31252	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
99826C/33141	2	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
30196C/30196	3	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000									
31252C/31248	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
31252C/31252	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
99826C/33141	3	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	0.00	0.00	2	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.222. Algal Percent Cover. Substrates. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared August 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Rock								Mud								Sand							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	82.50	15.03	6	86.25	5.94	-	-	0.882	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	90.42	5.90	6	90.83	3.80	-	-	0.819	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	90.42	5.90	6	83.75	5.35	-	+	0.204	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	87.92	8.25	4	88.75	7.25	-	-	0.932	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			87.80	8.78		87.42	5.60		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.137		Power-50%		0.971	P-value		0.740 y	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.121		Power-50%		0.982	P-value		0.588	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	4	93.13	4.00	5	41.00	16.99	-	-	0.039	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	2	5	1.50	1.50	6	56.25	15.37	-	-	0.006	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	5	1.50	1.50	6	0.00	0.00	-	+	0.374	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	72.50	5.12	3	76.67	20.88	-	-	0.468	6	0.83	0.83	3	0.00	0.00	-	+	0.363	6	0.42	0.42	3	0.00	0.00	-	+	0.363
Habitat Means			42.15	3.03		43.50	13.33		-			0.20	0.20		0.00	0.00		+			0.10	0.10		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.056x	Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.477
Stouffer's		Power	0.024		Power-50%		0.999	P-value		0.737	Power	---		Power-50%		---	P-value		0.474	Power	---		Power-50%		---	P-value		0.474
30196C/30196	3	4	60.00	14.97	4	40.63	23.01	-	+	0.411	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000
31252C/31248	3	5	0.50	0.50	6	8.33	3.52	-	-	0.064	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	3	5	0.50	0.50	6	15.42	8.86	-	-	0.143	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	4	4.38	3.59	2	33.75	26.25	-	-	0.131	4	20.62	14.94	2	0.00	0.00	-	-	0.147	4	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			16.35	4.90		24.53	15.43		-			5.15	3.72		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.021	Power	0.008		Power-50%		0.003	P-value		0.312	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.487		Power-50%		0.392	P-value		0.202	Power	0.001		Power-50%		0.000	P-value		0.458	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Shell Fragments								Filamentous Diatoms								Zostera/Phyllospadix							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	4	0.63	0.63	-	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.15	0.15		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.492	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.475	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	4	0.00	0.00	5	0.50	0.50	-	-	0.374	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.42	0.42	3	0.00	0.00	-	+	0.363	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.10	0.10		0.13	0.13		·			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.581 y	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.742	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000
31252C/31248	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	4	0.00	0.00	2	1.25	1.25	-	-	0.500	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.33	0.33		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.544	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.480	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.222. Algal Percent Cover. Totals and Seasonal Groups. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared August 1990. (Continued.)

		Sand and Mud								Total Substrate														
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV D P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	82.50	15.03	6	86.25	5.94	-	-	0.882							
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	90.42	5.90	6	90.83	3.80	-	-	0.819							
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	90.42	5.90	6	83.75	5.35	-	+	0.204							
99826C/33141	1	6	0.00	0.00	4	0.63	0.63	-	-	0.391	6	87.92	8.25	4	89.38	6.64	-	-	0.960							
Habitat Means			0.00	0.00		0.15	0.15		-			87.80	8.78		87.58	5.43		-							
Fisher's		Power	---		Power-50%		---	P-value		0.492	Power	0.139		Power-50%		0.971	P-value		0.746 y	Power	---		Power-50%		---	P-value
Stouffer's		Power	---		Power-50%		---	P-value		0.475	Power	0.118		Power-50%		0.978	P-value		0.589	Power	---		Power-50%		---	P-value
30196C/30196	2	4	0.00	0.00	5	0.50	0.50	-	-	0.374	4	93.13	4.00	5	41.50	16.78	-	+	0.039							
31252C/31248	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	1.50	1.50	6	56.25	15.37	-	-	0.006							
31252C/31252	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	1.50	1.50	6	0.00	0.00	-	-	0.374							
99826C/33141	2	6	1.67	0.83	3	0.00	0.00	-	+	0.082	6	74.17	5.03	3	76.67	20.88	-	-	0.519							
Habitat Means			0.42	0.20		0.13	0.13		+			42.58	3.00		43.63	13.27		-							
Fisher's		Power	0.020		Power-50%		0.009	P-value		0.296	Power	---		Power-50%		---	P-value		0.060x	Power	---		Power-50%		---	P-value
Stouffer's		Power	0.003		Power-50%		0.001	P-value		0.722	Power	0.025		Power-50%		1.000	P-value		0.739	Power	---		Power-50%		---	P-value
30196C/30196	3	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	60.00	14.97	4	40.63	23.01	-	+	0.411							
31252C/31248	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.50	0.50	6	8.33	3.52	-	-	0.064							
31252C/31252	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.50	0.50	6	15.42	8.86	-	-	0.143							
99826C/33141	3	4	20.62	14.94	2	1.25	1.25	-	+	0.368	4	25.00	13.42	2	35.00	27.50	-	-	0.751							
Habitat Means			5.15	3.72		0.33	0.33		+			21.50	7.35		24.83	15.72		-							
Fisher's		Power	0.004		Power-50%		0.002	P-value		0.479	Power	---		Power-50%		---	P-value		0.068	Power	---		Power-50%		---	P-value
Stouffer's		Power	0.001		Power-50%		0.000	P-value		0.474	Power	0.194		Power-50%		0.529	P-value		0.227	Power	---		Power-50%		---	P-value

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.223. Algal Percent Cover. Totals and Seasonal Groups. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Cleared July 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; Power = power to detect given difference; Power-50% = power to detect a 50% difference; dashes = insufficient data.

		Algal Diversity Index (a)									Algal Taxa Richness (b)									Total Algae								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	1	0.00	--	2	0.00	0.00	-	o	---	1	0.00	--	2	0.00	0.00	-	o	---	1	0.00	--	2	0.00	0.00	-	o	---
94935C/31288	1	5	0.00	0.00	0	--	--	-		---	5	0.20	0.20	0	--	--	-		---	5	5.00	5.00	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	0.00					0.10	0.20		0.00	0.00					2.50	5.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
13.1C/13.1	2	0	--	--	5	0.00	0.00	-		---	0	--	--	5	0.00	0.00	-		---	0	--	--	5	0.00	0.00	-		---
94935C/31288	2	5	0.00	0.00	0	--	--	-		---	5	0.20	0.20	0	--	--	-		---	5	5.50	5.50	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	0.00					0.20	0.20		0.00	0.00					5.50	5.50		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
13.1C/13.1	3	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---
94935C/31288	3	4	0.09	0.09	0	--	--	-		---	4	0.75	0.75	0	--	--	-		---	4	11.87	11.87	0	--	--	-		---
Habitat Means			0.05	0.09		0.00	0.00					0.38	0.75		0.00	0.00					5.95	11.90		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Invertebrates									Rock									Perennials (P)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	1	0.00	--	2	0.00	0.00	-	o	---	1	100.00	--	2	100.00	0.00	-	o	---	1	0.00	--	2	0.00	0.00	-	o	---
94935C/31288	1	5	1.00	0.61	0	--	--	-		---	5	93.00	4.70	0	--	--	-		---	5	5.00	5.00	0	--	--	-		---
Habitat Means			0.50	0.60		0.00	0.00					96.50	4.70		100.00	0.00					2.50	5.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
13.1C/13.1	2	0	--	--	5	0.00	0.00	-		---	0	--	--	5	99.50	0.50	-		---	0	--	--	5	0.00	0.00	-		---
94935C/31288	2	5	2.00	0.50	0	--	--	-		---	5	72.00	18.73	0	--	--	-		---	5	5.50	5.50	0	--	--	-		---
Habitat Means			2.00	0.50		0.00	0.00					72.00	18.70		99.50	0.50					5.50	5.50		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
13.1C/13.1	3	1	0.00	--	6	7.50	3.87	-	-	---	1	100.00	--	6	92.50	3.87	-	+	---	1	0.00	--	6	0.00	0.00	-	o	---
94935C/31288	3	4	0.00	0.00	0	--	--	-		---	4	87.50	11.68	0	--	--	-		---	4	5.62	5.63	0	--	--	-		---
Habitat Means			0.00	0.00		7.50	3.90					93.75	11.70		92.50	3.90					2.80	5.60		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.223. Algal Percent Cover. Totals and Seasonal Groups. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Cleared July 1990. (Continued.)

		Annuals (A)									Ephemerals (AE)																			
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	
13.1C/13.1	1	1	0.00	--	2	0.00	0.00	-	o	---	1	0.00	--	2	0.00	0.00	-	o	---										
94935C/31288	1	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---										
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00													
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			
13.1C/13.1	2	0	--	--	5	0.00	0.00	-		---	0	--	--	5	0.00	0.00	-		---										
94935C/31288	2	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---										
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00													
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			
13.1C/13.1	3	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---										
94935C/31288	3	4	6.25	6.25	0	--	--	-		---	4	0.00	0.00	0	--	--	-		---										
Habitat Means			3.15	6.30		0.00	0.00					0.00	0.00		0.00	0.00													
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.224. Algal Percent Cover. Chlorophyta. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Cleared July 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; Power = power to detect given difference; Power-50% = power to detect a 50% difference; dashes = insufficient data.

		Total Chlorophyta									Morphological Group: Bladed Greens									Bladed Greens (AE) (a)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	1	0.00	--	2	0.00	0.00	-	o	---	1	0.00	--	2	0.00	0.00	-	o	---	1	0.00	--	2	0.00	0.00	-	o	---
94935C/31288	1	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
13.1C/13.1	2	0	--	--	5	0.00	0.00	-		---	0	--	--	5	0.00	0.00	-		---	0	--	--	5	0.00	0.00	-		---
94935C/31288	2	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
13.1C/13.1	3	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---
94935C/31288	3	4	0.00	0.00	0	--	--	-		---	4	0.00	0.00	0	--	--	-		---	4	0.00	0.00	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Kornmannia, Monostroma, Ulva and Ulvaria.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Fine Filamentous Greens									Chaetomorpha/Rhizoclonium (A) (a)																		
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P									
13.1C/13.1	1	1	0.00	--	2	0.00	0.00	-	o	---	1	0.00	--	2	0.00	0.00	-	o	---									
94935C/31288	1	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---									
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00												
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
13.1C/13.1	2	0	--	--	5	0.00	0.00	-		---	0	--	--	5	0.00	0.00	-		---									
94935C/31288	2	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---									
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00												
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
13.1C/13.1	3	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---									
94935C/31288	3	4	0.00	0.00	0	--	--	-		---	4	0.00	0.00	0	--	--	-		---									
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00												
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.225. Algal Percent Cover. Phaeophyta. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Cleared July 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; Power = power to detect given difference; Power-50% = power to detect a 50% difference; dashes = insufficient data.

		Total Phaeophyta									Morphological Group: Bladed Browns									Alaria sp. (A)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	1	0.00	--	2	0.00	0.00	-	o	---	1	0.00	--	2	0.00	0.00	-	o	---	1	0.00	--	2	0.00	0.00	-	o	---
94935C/31288	1	5	5.00	5.00	0	--	--	-		---	5	5.00	5.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
Habitat Means			2.50	5.00		0.00	0.00					2.50	5.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
13.1C/13.1	2	0	--	--	5	0.00	0.00	-		---	0	--	--	5	0.00	0.00	-		---	0	--	--	5	0.00	0.00	-		---
94935C/31288	2	5	5.50	5.50	0	--	--	-		---	5	5.50	5.50	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
Habitat Means			5.50	5.50		0.00	0.00					5.50	5.50		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
13.1C/13.1	3	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---
94935C/31288	3	4	6.25	6.25	0	--	--	-		---	4	5.62	5.63	0	--	--	-		---	4	0.00	0.00	0	--	--	-		---
Habitat Means			3.15	6.30		0.00	0.00					2.80	5.60		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests
z Only one site pair.

		Total Fucus gardneri (P)									Adult Fucus gardneri (P) (> 2cm)									Juvenile Fucus gardneri (P) (<= 2cm)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	1	0.00	--	2	0.00	0.00	-	o	---	1	0.00	--	2	0.00	0.00	-	o	---	1	0.00	--	2	0.00	0.00	-	o	---
94935C/31288	1	5	5.00	5.00	0	--	--	-		---	5	4.50	4.50	0	--	--	-		---	5	0.50	0.50	0	--	--	-		---
Habitat Means			2.50	5.00		0.00	0.00					2.25	4.50		0.00	0.00					0.25	0.50		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
13.1C/13.1	2	0	--	--	5	0.00	0.00	-		---	0	--	--	5	0.00	0.00	-		---	0	--	--	5	0.00	0.00	-		---
94935C/31288	2	5	5.50	5.50	0	--	--	-		---	5	5.50	5.50	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
Habitat Means			5.50	5.50		0.00	0.00					5.50	5.50		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
13.1C/13.1	3	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---
94935C/31288	3	4	5.62	5.63	0	--	--	-		---	4	5.00	5.00	0	--	--	-		---	4	0.63	0.63	0	--	--	-		---
Habitat Means			2.80	5.60		0.00	0.00					2.50	5.00		0.00	0.00					0.30	0.60		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.225. Algal Percent Cover. Phaeophyta. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Cleared July 1990. (Continued.)

		Fucus Stipes (F) (a)									Morphological Group: Coarse Filamentous Browns									Myelophycus/Scytosiphon (A) (a)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	1	0.00	--	2	0.00	0.00	-	o	---	1	0.00	--	2	0.00	0.00	-	o	---	1	0.00	--	2	0.00	0.00	-	o	---
94935C/31288	1	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
13.1C/13.1	2	0	--	--	5	0.00	0.00	-		---	0	--	--	5	0.00	0.00	-		---	0	--	--	5	0.00	0.00	-		---
94935C/31288	2	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
13.1C/13.1	3	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---
94935C/31288	3	4	0.00	0.00	0	--	--	-		---	4	0.63	0.63	0	--	--	-		---	4	0.63	0.63	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	0.00					0.30	0.60		0.00	0.00					0.30	0.60		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Dead Fucus plants or stipes without blades.

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Fine Filamentous Browns									Fine Filamentous Browns (AE) (b)																	
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	1	0.00	--	2	0.00	0.00	-	o	---	1	0.00	--	2	0.00	0.00	-	o	---									
94935C/31288	1	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---									
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00												
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
13.1C/13.1	2	0	--	--	5	0.00	0.00	-		---	0	--	--	5	0.00	0.00	-		---									
94935C/31288	2	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---									
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00												
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
13.1C/13.1	3	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---									
94935C/31288	3	4	0.00	0.00	0	--	--	-		---	4	0.00	0.00	0	--	--	-		---									
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00												
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(b) Blachista, Ectocarpus and Pilayella.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.226. Algal Percent Cover. Rhodophyta. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Cleared July 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; Power = power to detect given difference; Power-50% = **power to detect a 50% difference; dashes = insufficient data.**

		Total Rhodophyta									Morphological Group: Bladed Reds									Gigartinaceae Group (P) (a)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	1	0.00	--	2	0.00	0.00	-	o	---	1	0.00	--	2	0.00	0.00	-	o	---	1	0.00	--	2	0.00	0.00	-	o	---
94935C/31288	1	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
13.1C/13.1	2	0	--	--	5	0.00	0.00	-		---	0	--	--	5	0.00	0.00	-		---	0	--	--	5	0.00	0.00	-		---
94935C/31288	2	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
13.1C/13.1	3	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---
94935C/31288	3	4	5.62	5.63	0	--	--	-		---	4	5.62	5.63	0	--	--	-		---	4	0.00	0.00	0	--	--	-		---
Habitat Means			2.80	5.60		0.00	0.00					2.80	5.60		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Chondrus, Iridaea, Mastocarpus and Rhodoglossum.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Porphyra sp. (A)									Morphological Group: Coarse Filamentous Reds									Gloiopeltis furcata (A)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	1	0.00	--	2	0.00	0.00	-	o	---	1	0.00	--	2	0.00	0.00	-	o	---	1	0.00	--	2	0.00	0.00	-	o	---
94935C/31288	1	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
13.1C/13.1	2	0	--	--	5	0.00	0.00	-		---	0	--	--	5	0.00	0.00	-		---	0	--	--	5	0.00	0.00	-		---
94935C/31288	2	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
13.1C/13.1	3	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---
94935C/31288	3	4	5.62	5.63	0	--	--	-		---	4	0.00	0.00	0	--	--	-		---	4	0.00	0.00	0	--	--	-		---
Habitat Means			2.80	5.60		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.226. Algal Percent Cover. Rhodophyta. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Cleared July 1990. (Continued.)

Site Pair	Mvd	Neorhodomela/Rhodomela (P) (a) N	C	SE	N	O	SE	CV	D	P	Odonthalia floccosa (P) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Saccate Reds N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	1	0.00	--	2	0.00	0.00	-	o	---	1	0.00	--	2	0.00	0.00	-	o	---	1	0.00	--	2	0.00	0.00	-	o	---
94935C/31288	1	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power ---			Power-50%	---	P-value	---			Power ---			Power-50%	---	P-value	---			Power ---			Power-50%	---	P-value	---		
Stouffer's		Power ---			Power-50%	---	P-value	---			Power ---			Power-50%	---	P-value	---			Power ---			Power-50%	---	P-value	---		
13.1C/13.1	2	0	--	--	5	0.00	0.00	-		---	0	--	--	5	0.00	0.00	-		---	0	--	--	5	0.00	0.00	-		---
94935C/31288	2	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power ---			Power-50%	---	P-value	---			Power ---			Power-50%	---	P-value	---			Power ---			Power-50%	---	P-value	---		
Stouffer's		Power ---			Power-50%	---	P-value	---			Power ---			Power-50%	---	P-value	---			Power ---			Power-50%	---	P-value	---		
13.1C/13.1	3	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---
94935C/31288	3	4	0.00	0.00	0	--	--	-		---	4	0.00	0.00	0	--	--	-		---	4	0.00	0.00	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power ---			Power-50%	---	P-value	---			Power ---			Power-50%	---	P-value	---			Power ---			Power-50%	---	P-value	---		
Stouffer's		Power ---			Power-50%	---	P-value	---			Power ---			Power-50%	---	P-value	---			Power ---			Power-50%	---	P-value	---		

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Halosaccion glandiforme (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	1	0.00	--	2	0.00	0.00	-	o	---	1	0.00	--	2	0.00	0.00	-	o	---	1	0.00	--	2	0.00	0.00	-	o	---
94935C/31288	1	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power ---			Power-50%	---	P-value	---			Power ---			Power-50%	---	P-value	---			Power ---			Power-50%	---	P-value	---		
Stouffer's		Power ---			Power-50%	---	P-value	---			Power ---			Power-50%	---	P-value	---			Power ---			Power-50%	---	P-value	---		
13.1C/13.1	2	0	--	--	5	0.00	0.00	-		---	0	--	--	5	0.00	0.00	-		---	0	--	--	5	0.00	0.00	-		---
94935C/31288	2	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power ---			Power-50%	---	P-value	---			Power ---			Power-50%	---	P-value	---			Power ---			Power-50%	---	P-value	---		
Stouffer's		Power ---			Power-50%	---	P-value	---			Power ---			Power-50%	---	P-value	---			Power ---			Power-50%	---	P-value	---		
13.1C/13.1	3	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---
94935C/31288	3	4	0.00	0.00	0	--	--	-		---	4	0.00	0.00	0	--	--	-		---	4	0.00	0.00	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power ---			Power-50%	---	P-value	---			Power ---			Power-50%	---	P-value	---			Power ---			Power-50%	---	P-value	---		
Stouffer's		Power ---			Power-50%	---	P-value	---			Power ---			Power-50%	---	P-value	---			Power ---			Power-50%	---	P-value	---		

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.227. Algal Percent Cover. Invertebrates. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Cleared July 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; Power = power to detect given difference; Power-50% = power to detect a 50% difference; dashes = insufficient data.

		Balanomorpha								Mytilus								Littorinidae							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	1	0.00	--	2	0.00	0.00	-	o	---	1	0.00	--	2	0.00	0.00	-	o	---	1	0.00	--	2	0.00	0.00	-	o	---
94935C/31288	1	5	1.00	0.61	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		--
Habitat Means			0.50	0.60		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			-
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		--
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
13.1C/13.1	2	0	--	--	5	0.00	0.00	-		---	0	--	--	5	0.00	0.00	-		---	0	--	--	5	0.00	0.00	-		---
94935C/31288	2	5	2.00	0.50	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		--
Habitat Means			2.00	0.50		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			-
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		--
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
13.1C/13.1	3	1	0.00	--	6	3.33	1.79	-	-	---	1	0.00	--	6	0.42	0.42	-	-	---	1	0.00	--	6	3.75	2.39	-	-	---
94935C/31288	3	4	0.00	0.00	0	--	--	-		---	4	0.00	0.00	0	--	--	-		---	4	0.00	0.00	0	--	--	-		--
Habitat Means			0.00	0.00		3.30	1.80					0.00	0.00		0.40	0.40					0.00	0.00		3.80	2.40			-
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		--
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests
z Only one site pair.

Table C-5.228. Algal Percent Cover. Substrates. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Cleared July 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; Power = power to detect given difference; Power-50% = power to detect a 50% difference; dashes = insufficient data.

		Rock								Mud								Sand							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	1	100.00	--	2	100.00	0.00	-	o	---	1	0.00	--	2	0.00	0.00	-	o	---	1	0.00	--	2	0.00	0.00	-	o	---
94935C/31288	1	5	93.00	4.70	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	1.00	1.00	0	--	--	-		---
Habitat Means			96.50	4.70		100.00	0.00					0.00	0.00		0.00	0.00					0.50	1.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
13.1C/13.1	2	0	--	--	5	99.50	0.50	-		---	0	--	--	5	0.00	0.00	-		---	0	--	--	5	0.00	0.00	-		---
94935C/31288	2	5	72.00	18.73	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	20.00	20.00	0	--	--	-		---
Habitat Means			72.00	18.70		99.50	0.50					0.00	0.00		0.00	0.00					20.00	20.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
13.1C/13.1	3	1	100.00	--	6	92.50	3.87	-	+	---	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---
94935C/31288	3	4	87.50	11.68	0	--	--	-		---	4	0.00	0.00	0	--	--	-		---	4	0.63	0.63	0	--	--	-		---
Habitat Means			93.75	11.70		92.50	3.90					0.00	0.00		0.00	0.00					0.30	0.60		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Shell Fragments								Filamentous Diatoms								Sand and Mud							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
[illegible]	-	-	[illegible]		-	[illegible]	[illegible]		o		1	[illegible]		2	[illegible]	[illegible]	-	o	---	1	0.00	--	2	0.00	0.00	-	o	---
94935C/31288	1	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	1.00	1.00	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.50	1.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
13.1C/13.1	2	0	--	--	5	0.50	0.50	-		---	0	--	--	5	0.00	0.00	-		---	0	--	--	5	0.50	0.50	-		---
94935C/31288	2	5	0.50	0.50	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	20.50	19.88	0	--	--	-		---
Habitat Means			0.50	0.50		0.50	0.50					0.00	0.00		0.00	0.00					20.50	19.90		0.50	0.50			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
13.1C/13.1	3	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---
94935C/31288	3	4	0.00	0.00	0	--	--	-		---	4	0.00	0.00	0	--	--	-		---	4	0.63	0.63	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.30	0.60		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.228. Algal Percent Cover. Substrates. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Cleared July 1990. (Continued.)

		Total Substrate																											
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	
13.1C/13.1	1	1	100.00	--	2	100.00	0.00	-	o	---																			
94935C/31288	1	5	94.00	4.78	0	--	--	-		---																			
Habitat Means			97.00	4.80		100.00	0.00																						
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value			
13.1C/13.1	2	0	--	--	5	100.00	0.00	-		---																			
94935C/31288	2	5	92.50	5.65	0	--	--	-		---																			
Habitat Means			92.50	5.70		100.00	0.00																						
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value			
13.1C/13.1	3	1	100.00	--	6	92.50	3.87	-	+	---																			
94935C/31288	3	4	88.13	11.88	0	--	--	-		---																			
Habitat Means			94.05	11.90		92.50	3.90																						
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value			

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.229. Algal Percent Cover. Totals and Seasonal Groups. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Cleared September 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; Power = power to detect given difference; Power-50% = power to detect a 50% difference; dashes = insufficient data.

		Algal Diversity Index (a)									Algal Taxa Richness (b)									Total Algae								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
94935C/31288	1	5	0.00	0.00	0	--	--	-		---	5	0.20	0.20	0	--	--	-		---	5	3.50	3.50	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	--					0.20	0.20		0.00	--					3.50	3.50		0.00	--			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
13.1C/13.1	2	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
94935C/31288	2	4	0.00	0.00	0	--	--	-		---	4	0.50	0.29	0	--	--	-		---	4	11.88	7.02	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	--					0.50	0.29		0.00	--					11.90	7.00		0.00	--			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
13.1C/13.1	3	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---
94935C/31288	3	3	0.03	0.03	0	--	--	-		---	3	1.00	0.58	0	--	--	-		---	3	15.83	14.60	0	--	--	-		---
Habitat Means			0.03	0.03		0.00	0.00					1.00	0.58		0.00	0.00					15.80	14.60		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Modified Shannon Index.
(b) Taxa richness calculations are explained in the methods.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Invertebrates									Rock									Perennials (P)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	0	--	--	1	0.00	--	-		---	0	--	--	1	100.00	--	-			0	--	--	1	----	--	-		
94935C/31288	1	5	1.50	1.00	0	--	--	-		---	5	95.00	3.26	0	--	--	-		---	5	3.50	3.50	0	--	--	-		---
Habitat Means			1.50	1.00		0.00	--					95.00	3.30		100.00	--					3.50	3.50		0.00	--			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
13.1C/13.1	2	0	--	--	1	0.00	--	-		---	0	--	--	1	100.00	--	-		---	0	--	--	1	0.00	--	-		---
94935C/31288	2	4	0.63	0.63	0	--	--	-		---	4	86.88	7.17	0	--	--	-		---	4	11.88	7.02	0	--	--	-		---
Habitat Means			0.60	0.60		0.00	--					86.90	7.20		100.00	--					11.90	7.00		0.00	--			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
13.1C/13.1	3	0	--	--	4	5.63	2.77	-		---	0	--	--	4	94.38	2.77	-		---	0	--	--	4	0.00	0.00	-		---
94935C/31288	3	3	1.67	1.67	0	--	--	-		---	3	82.50	13.92	0	--	--	-		---	3	15.00	13.77	0	--	--	-		---
Habitat Means			1.70	1.70		5.60	2.80					82.50	13.90		94.40	2.80					15.00	13.80		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.229. Algal Percent Cover. Totals and Seasonal Groups. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Cleared September 1990. (Continued.)

		Annuals (A)								Ephemerals (AE)																			
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	
13.1C/13.1	1	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---										
94935C/31288	1	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---										
Habitat Means			0.00	0.00		0.00	--					0.00	0.00		0.00	--													
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			
13.1C/13.1	2	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---										
94935C/31288	2	4	0.00	0.00	0	--	--	-		---	4	0.00	0.00	0	--	--	-		---										
Habitat Means			0.00	0.00		0.00	--					0.00	0.00		0.00	--													
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			
13.1C/13.1	3	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---										
94935C/31288	3	3	0.83	0.83	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---										
Habitat Means			0.80	0.80		0.00	0.00					0.00	0.00		0.00	0.00													
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests
z Only one site pair.

Table C-5.230. Algal Percent Cover. Chlorophyta. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Cleared September 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; Power = power to detect given difference; Power-50% = **power to detect a 50% difference; dashes = insufficient data.**

		Total Chlorophyta									Morphological Group: Bladed Greens									Bladed Greens (AE) (a)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
94935C/31288	1	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	--					0.00	0.00		0.00	--					0.00	0.00		0.00	--			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
13.1C/13.1	2	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
94935C/31288	2	4	0.00	0.00	0	--	--	-		---	4	0.00	0.00	0	--	--	-		---	4	0.00	0.00	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	--					0.00	0.00		0.00	--					0.00	0.00		0.00	--			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
13.1C/13.1	3	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---
94935C/31288	3	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Kornmannia, Monostroma, Ulva and Ulvaria.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Fine Filamentous Greens									Chaetomorpha/Rhizoclonium (A) (a)																	
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---									
94935C/31288	1	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---									
Habitat Means			0.00	0.00		0.00	--					0.00	0.00		0.00	--												
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
13.1C/13.1	2	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---									
94935C/31288	2	4	0.00	0.00	0	--	--	-		---	4	0.00	0.00	0	--	--	-		---									
Habitat Means			0.00	0.00		0.00	--					0.00	0.00		0.00	--												
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
13.1C/13.1	3	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---									
94935C/31288	3	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---									
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00												
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.231. Algal Percent Cover. Phaeophyta. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Cleared September 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; Power = power to detect given difference; Power-50% = power to detect a 50% difference; dashes = insufficient data.

		Total Phaeophyta									Morphological Group: Bladed Browns									Alaria sp. (A)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
94935C/31288	1	5	3.50	3.50	0	--	--	-		---	5	3.50	3.50	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
Habitat Means			3.50	3.50		0.00	--					3.50	3.50		0.00	--					0.00	0.00		0.00	--			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
13.1C/13.1	2	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
94935C/31288	2	4	11.88	7.02	0	--	--	-		---	4	11.88	7.02	0	--	--	-		---	4	0.00	0.00	0	--	--	-		---
Habitat Means			11.90	7.00		0.00	--					11.90	7.00		0.00	--					0.00	0.00		0.00	--			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
13.1C/13.1	3	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---
94935C/31288	3	3	15.00	13.77	0	--	--	-		---	3	15.00	13.77	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---
Habitat Means			15.00	13.80		0.00	0.00					15.00	13.80		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Fucus gardneri (P)									Adult Fucus gardneri (P) (> 2cm)									Juvenile Fucus gardneri (P) (<= 2cm)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
94935C/31288	1	5	3.50	3.50	0	--	--	-		---	5	3.50	3.50	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
Habitat Means			3.50	3.50		0.00	--					3.50	3.50		0.00	--					0.00	0.00		0.00	--			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
13.1C/13.1	2	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
94935C/31288	2	4	11.88	7.02	0	--	--	-		---	4	11.88	7.02	0	--	--	-		---	4	0.00	0.00	0	--	--	-		---
Habitat Means			11.90	7.00		0.00	--					11.90	7.00		0.00	--					0.00	0.00		0.00	--			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
13.1C/13.1	3	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---
94935C/31288	3	3	15.00	13.77	0	--	--	-		---	3	14.17	14.17	0	--	--	-		---	3	0.83	0.83	0	--	--	-		---
Habitat Means			15.00	13.80		0.00	0.00					14.20	14.20		0.00	0.00					0.80	0.80		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.231. Algal Percent Cover. Phaeophyta. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Cleared September 1990. (Continued.)

Site Pair	Mvd	Fucus Stipes (P) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Coarse Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
94935C/31288	1	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
Habitat Means			*0.00*	*0.00*		*0.00*	--					*0.00*	*0.00*		*0.00*	--					*0.00*	*0.00*		*0.00*	--			
Fisher's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
Stouffer's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
13.1C/13.1	2	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
94935C/31288	2	4	0.00	0.00	0	--	--	-		---	4	0.00	0.00	0	--	--	-		---	4	0.00	0.00	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	--					0.00	0.00		0.00	--					0.00	0.00		0.00	--			
Fisher's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
Stouffer's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
13.1C/13.1	3	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---
94935C/31288	3	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
Stouffer's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---

(a) Dead Fucus plants or stipes without blades.

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Morphological Group: Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Fine Filamentous Browns (AE) (b) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---									
94935C/31288	1	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---									
Habitat Means			0.00	0.00		0.00	--					0.00	0.00		0.00	--												
Fisher's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
Stouffer's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
13.1C/13.1	2	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---									
94935C/31288	2	4	0.00	0.00	0	--	--	-		---	4	0.00	0.00	0	--	--	-		---									
Habitat Means			0.00	0.00		0.00	--					0.00	0.00		0.00	--												
Fisher's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
Stouffer's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
13.1C/13.1	3	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---									
94935C/31288	3	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---									
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00												
Fisher's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
Stouffer's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---

(b) Elachista, Ectocarpus and Pilayella.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.232. Algal Percent Cover. Rhodophyta. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Cleared September 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; Power = power to detect given difference; Power-50% = power to detect a 50% difference; dashes = insufficient data.

		Total Rhodophyta									Morphological Group: Bladed Reds									Gigartinaceae Group (P) (a)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
94935C/31288	1	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
Habitat Means			*0.00*	*0.00*		*0.00*	--					*0.00*	*0.00*		*0.00*	--					*0.00*	*0.00*		*0.00*	--			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
13.1C/13.1	2	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
94935C/31288	2	4	0.00	0.00	0	--	--	-		---	4	0.00	0.00	0	--	--	-		---	4	0.00	0.00	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	--					0.00	0.00		0.00	--					0.00	0.00		0.00	--			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
13.1C/13.1	3	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---
94935C/31288	3	3	0.83	0.83	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---
Habitat Means			0.80	0.80		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Chondrus, Iridaea, Mastocarpus and Rhodoglossum.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Porphyra sp. (A)									Morphological Group: Coarse Filamentous Reds									Gloiopeltis furcata (A)								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
94935C/31288	1	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	--					0.00	0.00		0.00	--					0.00	0.00		0.00	--			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
13.1C/13.1	2	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
94935C/31288	2	4	0.00	0.00	0	--	--	-		---	4	0.00	0.00	0	--	--	-		---	4	0.00	0.00	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	--					0.00	0.00		0.00	--					0.00	0.00		0.00	--			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
13.1C/13.1	3	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---
94935C/31288	3	3	0.00	0.00	0	--	--	-		---	3	0.83	0.83	0	--	--	-		---	3	0.83	0.83	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	0.00					0.80	0.80		0.00	0.00					0.80	0.80		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.232. Algal Percent Cover. Rhodophyta. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Cleared September 1990. (Continued.)

Site Pair	Mvd	Neorhodomela/Rhodomela (P) (a) N	C	SE	N	O	SE	CV	D	P	Odonthalia floccosa (P) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Saccate Reds N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
94935C/31288	1	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	--					0.00	0.00		0.00	--					0.00	0.00		0.00	--			
Fisher's		Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---
Stouffer's		Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---
13.1C/13.1	2	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
94935C/31288	2	4	0.00	0.00	0	--	--	-		---	4	0.00	0.00	0	--	--	-		---	4	0.00	0.00	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	--					0.00	0.00		0.00	--					0.00	0.00		0.00	--			
Fisher's		Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---
Stouffer's		Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---
13.1C/13.1	3	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---
94935C/31288	3	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---
Stouffer's		Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Halosaccion glandiforme (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P
[illegible]		[illegible]			[illegible]						[illegible]			[illegible]						[illegible]			[illegible]					
94935C/31288	1	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	--					0.00	0.00		0.00	--					0.00	0.00		0.00	--			
Fisher's		Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---
Stouffer's		Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---
13.1C/13.1	2	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
94935C/31288	2	4	0.00	0.00	0	--	--	-		---	4	0.00	0.00	0	--	--	-		---	4	0.00	0.00	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	--					0.00	0.00		0.00	--					0.00	0.00		0.00	--			
Fisher's		Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---
Stouffer's		Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---
13.1C/13.1	3	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---
94935C/31288	3	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---
Stouffer's		Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.233. Algal Percent Cover. Invertebrates. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Cleared September 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; 0 = control = oiled; P = probability value; Power = power to detect given difference; Power-50% = power to detect a 50% difference; dashes = insufficient data.

		Balanomorpha								Mytilus								Littorinidae							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
94935C/31288	1	5	1.50	1.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
Habitat Means			1.50	1.00		0.00	--					0.00	0.00		0.00	--					0.00	0.00		0.00	--			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
13.1C/13.1	2	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
94935C/31288	2	4	0.63	0.63	0	--	--	-		---	4	0.00	0.00	0	--	--	-		---	4	0.00	0.00	0	--	--	-		---
Habitat Means			0.60	0.60		0.00	--					0.00	0.00		0.00	--					0.00	0.00		0.00	--			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
13.1C/13.1	3	0	--	--	4	3.75	2.98	-		---	0	--	--	4	0.63	0.63	-		---	0	--	--	4	1.25	1.25	-		---
94935C/31288	3	3	1.67	1.67	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---
Habitat Means			1.70	1.70		3.80	3.00					0.00	0.00		0.60	0.60					0.00	0.00		1.30	1.30			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
/ Direction of difference between habitat means is different than direction of overall tests.
x Only one site pair.

Table C-5.234. Algal Percent Cover. Substrates. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Cleared September 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; Power = power to detect given difference; Power-50% = **power to detect a 50% difference; dashes = insufficient data.**

Site Pair	Mvd	Rock N	Rock C	Rock SE	Rock N	Rock O	Rock SE	Rock CV	Rock D	Rock P	Mud N	Mud C	Mud SE	Mud N	Mud O	Mud SE	Mud CV	Mud D	Mud P	Sand N	Sand C	Sand SE	Sand N	Sand O	Sand SE	Sand CV	Sand D	Sand P
13.1C/13.1	1	0	--	--	1	100.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
94935C/31288	1	5	95.00	3.26	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
Habitat Means			95.00	3.30		100.00	--					0.00	0.00		0.00	--					0.00	0.00		0.00	--			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
13.1C/13.1	2	0	--	--	1	100.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
94935C/31288	2	4	86.88	7.17	0	--	--	-		---	4	0.63	0.63	0	--	--	-		---	4	0.00	0.00	0	--	--	-		---
Habitat Means			86.90	7.20		100.00	--					0.60	0.60		0.00	--					0.00	0.00		0.00	--			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
13.1C/13.1	3	0	--	--	4	94.38	2.77	-		---	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---
94935C/31288	3	3	82.50	13.92	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---
Habitat Means			82.50	13.90		94.40	2.80					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Shell Fragments N	Shell Fragments C	Shell Fragments SE	Shell Fragments N	Shell Fragments O	Shell Fragments SE	Shell Fragments CV	Shell Fragments D	Shell Fragments P	Filamentous Diatoms N	Filamentous Diatoms C	Filamentous Diatoms SE	Filamentous Diatoms N	Filamentous Diatoms O	Filamentous Diatoms SE	Filamentous Diatoms CV	Filamentous Diatoms D	Filamentous Diatoms P	Sand and Mud N	Sand and Mud C	Sand and Mud SE	Sand and Mud N	Sand and Mud O	Sand and Mud SE	Sand and Mud CV	Sand and Mud D	Sand and Mud P
13.1C/13.1	1	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
94935C/31288	1	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	--					0.00	0.00		0.00	--					0.00	0.00		0.00	--			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
13.1C/13.1	2	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
94935C/31288	2	4	0.00	0.00	0	--	--	-		---	4	0.00	0.00	0	--	--	-		---	4	0.63	0.63	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	--					0.00	0.00		0.00	--					0.60	0.60		0.00	--			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
13.1C/13.1	3	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---	0	--	--	4	0.00	0.00	-		---
94935C/31288	3	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.234. Algal Percent Cover. Substrates. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Cleared September 1990. (Continued.)

		Total Substrate																											
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	
13.1C/13.1	1	0	--	--	1	100.00	--	-		---																			
94935C/31288	1	5	95.00	3.26	0	--	--	-		---																			
Habitat Means			95.00	3.30		100.00	--																						
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value			
13.1C/13.1	2	0	--	--	1	100.00	--	-		---																			
94935C/31288	2	4	87.50	6.69	0	--	--	-		---																			
Habitat Means			87.50	6.70		100.00	--																						
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value			
13.1C/13.1	3	0	--	--	4	94.38	2.77	-		---																			
94935C/31288	3	3	82.50	13.92	0	--	--	-		---																			
Habitat Means			82.50	13.90		94.40	2.80																						
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value			

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.235. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. June 1991. Cleared August 1989.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Algal Diversity Index (a)								Algal Taxa Richness (b)								Total Algae							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.33	0.33	-		---	0	--	--	3	3.33	3.33	-		---
601C/601	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.50	0.50	-		---	0	--	--	2	8.75	8.75	-		---
598C/598	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.50	0.50	-		---	0	--	--	2	1.25	1.25	-		---
1522C/1522	1	0	--	--	3	0.09	0.09	-		---	0	--	--	3	0.67	0.67	-		---	0	--	--	3	2.50	2.50	-		---
Habitat Means			--	--		0.02	0.02					--	--		0.50	0.50					--	--		3.98	3.98			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	0.07	0.07	-		---	0	--	--	3	1.33	0.33	-		---	0	--	--	3	6.67	4.17	-		---
601C/601	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
598C/598	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	1.00	0.00	-		---	0	--	--	2	13.75	1.25	-		---
1522C/1522	2	0	--	--	3	0.05	0.05	-		---	0	--	--	3	1.33	0.33	-		---	0	--	--	3	55.83	23.47	-		---
Habitat Means			--	--		0.03	0.03					--	--		0.92	0.17					--	--		19.07	7.25			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	0.17	0.17	-		---	0	--	--	3	1.67	1.20	-		---	0	--	--	3	15.83	7.95	-		---
601C/601	3	0	--	--	1	0.38	--	-		---	0	--	--	1	3.00	--	-		---	0	--	--	1	15.00	--	-		---
598C/598	3	0	--	--	1	0.28	--	-		---	0	--	--	1	3.00	--	-		---	0	--	--	1	72.50	--	-		---
1522C/1522	3	0	--	--	2	0.24	0.24	-		---	0	--	--	2	3.00	2.00	-		---	0	--	--	2	93.75	6.25	-		---
Habitat Means			--	--		0.27	0.20					--	--		2.67	1.60					--	--		49.28	7.15			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Modified Shannon Index.
(b) Taxa richness calculations are explained in the methods.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Invertebrates								Rock								Perennials (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	96.67	3.33	-		---	0	--	--	3	3.33	3.33	-		---
601C/601	1	0	--	--	2	7.50	7.50	-		---	0	--	--	2	83.75	1.25	-		---	0	--	--	2	8.75	8.75	-		---
598C/598	1	0	--	--	2	1.25	1.25	-		---	0	--	--	2	97.50	2.50	-		---	0	--	--	2	1.25	1.25	-		---
1522C/1522	1	0	--	--	3	0.83	0.83	-		---	0	--	--	3	96.67	3.33	-		---	0	--	--	3	1.67	1.67	-		---
Habitat Means			--	--		2.40	2.40					--	--		93.68	2.60					--	--		3.78	3.78			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	1.67	0.83	-		---	0	--	--	3	91.67	4.64	-		---	0	--	--	3	0.83	0.83	-		---
601C/601	2	0	--	--	2	8.75	1.25	-		---	0	--	--	2	90.00	2.50	-		---	0	--	--	2	0.00	0.00	-		---
598C/598	2	0	--	--	2	11.25	8.75	-		---	0	--	--	2	75.00	10.00	-		---	0	--	--	2	13.75	1.25	-		---
1522C/1522	2	0	--	--	3	0.83	0.83	-		---	0	--	--	3	43.33	23.33	-		---	0	--	--	3	35.00	32.53	-		---
Habitat Means			--	--		5.65	2.93					--	--		75.00	10.10					--	--		12.40	8.65			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	6.67	6.67	-		---	0	--	--	3	77.50	12.99	-		---	0	--	--	3	10.83	7.41	-		---
601C/601	3	0	--	--	1	15.00	--	-		---	0	--	--	1	70.00	--	-		---	0	--	--	1	12.50	--	-		---
598C/598	3	0	--	--	1	2.50	--	-		---	0	--	--	1	25.00	--	-		---	0	--	--	1	57.50	--	-		---
1522C/1522	3	0	--	--	2	6.25	6.25	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	8.75	8.75	-		---
Habitat Means			--	--		7.63	6.50					--	--		43.13	6.50					--	--		22.40	8.10			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.235. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. June 1991. Cleared August 1989. (Continued.)

		Annuals (A)								Ephemerals (AE)															
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
601C/601	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---									
598C/598	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---									
1522C/1522	1	0	--	--	3	0.83	0.83	-		---	0	--	--	3	0.83	0.83	-		---									
Habitat Means			--	--		0.20	0.20					--	--		0.20	0.20												
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
453C/453	2	0	--	--	3	5.83	3.33	-		---	0	--	--	3	4.17	4.17	-		---									
601C/601	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---									
598C/598	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---									
1522C/1522	2	0	--	--	3	20.83	12.28	-		---	0	--	--	3	14.17	14.17	-		---									
Habitat Means			--	--		6.65	3.90					--	--		4.60	4.60												
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
453C/453	3	0	--	--	3	5.00	5.00	-		---	0	--	--	3	0.83	0.83	-		---									
601C/601	3	0	--	--	1	2.50	--	-		---	0	--	--	1	2.50	--	-		---									
598C/598	3	0	--	--	1	15.00	--	-		---	0	--	--	1	15.00	--	-		---									
1522C/1522	3	0	--	--	2	85.00	15.00	-		---	0	--	--	2	82.25	18.75	-		---									
Habitat Means			--	--		26.88	10.00					--	--		24.90	9.80												
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.236. Algal Percent Cover. Chlorophyta. Prince William Sound. Sheltered Rocky. June 1991. Cleared August 1989.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

Site Pair	Mvd	Total Chlorophyta N	C	SE	N	O	SE	CV	D	P	Morphological Group: Bladed Greens N	C	SE	N	O	SE	CV	D	P	Bladed Greens (AE) (a) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
598C/598	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
1522C/1522	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
598C/598	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
1522C/1522	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0			-		---
453C/453	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
598C/598	3	0	--	--	1	10.00	--	-		---	0	--	--	1	10.00	--	-		---	0	--	--	1	10.00	--	-		---
1522C/1522	3	0	--	--	2	31.25	31.25	-		---	0	--	--	2	27.50	27.50	-		---	0	--	--	2	27.50	27.50	-		---
Habitat Means			--	--		10.33	15.65					--	--		9.38	13.75					--	--		9.38	13.75			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Kornmannia, Monostroma, Ulva and Ulvaria.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Morphological Group: Fine Filamentous Greens N	C	SE	N	O	SE	CV	D	P	Acrosiphonia sp. (A) N	C	SE	N	O	SE	CV	D	P	Chaetomorpha/Rhizoclonium (A) (a) N	C	SE	N	O	SE	CV	D	P
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
598C/598	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
1522C/1522	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
598C/598	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
1522C/1522	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
598C/598	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
1522C/1522	3	0	--	--	2	3.75	3.75	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--	--		0.95	1.90					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.236. Algal Percent Cover. Chlorophyta. Prince William Sound. Sheltered Rocky. June 1991. Cleared August 1989. (Continued.)

Site Pair	Mvd	Cladophora sp. (AE) N	C	SE	N	O	SE	CV	D	P	Ulothrix sp. (AE) N	C	SE	N	O	SE	CV	D	P	Urospora sp. (AE) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
598C/598	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
1522C/1522	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
598C/598	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
1522C/1522	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
598C/598	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
1522C/1522	3	0	--	--	2	3.75	3.75	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--	--		0.95	1.90					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Morphological Group: Tubular and Saccate Greens N	C	SE	N	O	SE	CV	D	P	Blidingia/Enteromorpha (AE) (a) N	C	SE	N	O	SE	CV			N	C	SE	N	O	SE	CV	D	P
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
601C/601	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---									
598C/598	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---									
1522C/1522	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00												
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
453C/453	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
601C/601	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---									
598C/598	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---									
1522C/1522	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00												
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
453C/453	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
601C/601	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---									
598C/598	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---									
1522C/1522	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---									
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00												
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.237. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. June 1991. Cleared August 1989.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group: Bladed Browns								Total Fucus gardneri (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	1	0	--	--	3	3.33	3.33	-		---	0	--	--	3	3.33	3.33	-		---	0	--	--	3	3.33	3.33	-		---
601C/601	1	0	--	--	2	8.75	8.75	-		---	0	--	--	2	8.75	8.75	-		---	0	--	--	2	8.75	8.75	-		---
598C/598	1	0	--	--	2	1.25	1.25	-		---	0	--	--	2	1.25	1.25	-		---	0	--	--	2	1.25	1.25	-		---
1522C/1522	1	0	--	--	3	2.50	2.50	-		---	0	--	--	3	1.67	1.67	-		---	0	--	--	3	1.67	1.67	-		---
Habitat Means			--	--		3.98	3.98					--	--		3.78	3.78					--	--		3.78	3.78			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	4.17	4.17	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
598C/598	2	0	--	--	2	13.75	1.25	-		---	0	--	--	2	13.75	1.25	-		---	0	--	--	2	13.75	1.25	-		---
1522C/1522	2	0	--	--	3	49.17	28.88	-		---	0	--	--	3	35.00	32.53	-		---	0	--	--	3	35.00	32.53	-		---
Habitat Means			--	--		*16.80*	*8.60*					--	--		12.20	8.45					--	--		12.20	8.45			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	14.17	7.41	-		---	0	--	--	3	9.17	7.95	-		---	0	--	--	3	9.17	7.95	-		---
601C/601	3	0	--	--	1	12.50	--	-		---	0	--	--	1	10.00	--	-		---	0	--	--	1	10.00	--	-		---
598C/598	3	0	--	--	1	62.50	--	-		---	0	--	--	1	57.50	--	-		---	0	--	--	1	57.50	--	-		---
1522C/1522	3	0	--	--	2	51.25	48.75	-		---	0	--	--	2	1.25	1.25	-		---	0	--	--	2	1.25	1.25	-		---
Habitat Means				--		35.13	28.10						--		19.50	4.65						--		19.50	4.65			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Adult Fucus gardneri (P) (> 2cm)								Juvenile Fucus gardneri (P) (<= 2cm)								Fucus Stipes (P) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	1	0	--	--	3	0.83	0.83	-		---	0	--	--	3	2.50	2.50	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	1	0	--	--	2	8.75	8.75	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
598C/598	1	0	--	--	2	1.25	1.25	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
1522C/1522	1	0	--	--	3	1.67	1.67	-		---	0	--	--	3	*0.00*	*0.00*	-		---	0	--	--	3	*0.00*	0.00	-		---
Habitat Means			--	--		3.15	3.15					--	--		0.63	0.63					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
598C/598	2	0	--	--	*2*	13.75	1.25	-		---	*0*	--	--	*2*	*0.00*	*0.00*	-		---	*0*	--	--	*2*	0.00	0.00	-		---
1522C/1522	2	0	--	--	3	35.00	32.53	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		12.20	8.45					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	9.17	7.95	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	3	0	--	--	*1*	*10.00*	--	-		---	*0*	--	--	1	*0.00*	--	-		---	0	--	--	1	0.00	--	-		---
598C/598	3	0	--	--	1	57.50	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
1522C/1522	3	0	--	--	2	1.25	1.25	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--	--		19.50	4.65					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Dead Fucus plants or stipes without blades.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.237. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. June 1991. Cleared August 1989. (Continued.)

Site Pair	Mvd	Petalonia/Punctaria (AE) (b) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Coarse Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Dictyosiphon sp. (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
598C/598	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
1522C/1522	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
598C/598	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
1522C/1522	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	4.17	4.17	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
598C/598	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
1522C/1522	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		1.05	2.10					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(b) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Fine Filamentous Browns (AE) (b) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
598C/598	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
1522C/1522	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.83	0.83	-		---	0	--	--	3	0.83	0.83	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.20	0.20					--	--		0.20	0.20			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	4.17	4.17	-		---	0	--	--	3	4.17	4.17	-		---
601C/601	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
598C/598	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
1522C/1522	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	14.17	14.17	-		---	0	--	--	3	14.17	14.17	-		---
Habitat Means			--	--		0.00	0.00					--	--		4.60	4.60					--	--		4.60	4.60			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	4.17	4.17	-		---	0	--	--	3	0.83	0.83	-		---	0	--	--	3	0.83	0.83	-		---
601C/601	3	0	--	--	1	0.00	--	-		---	0	--	--	1	2.50	--	-		---	0	--	--	1	2.50	--	-		---
598C/598	3	0	--	--	1	0.00	--	-		---	0	--	--	1	5.00	--	-		---	0	--	--	1	5.00	--	-		---
1522C/1522	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	50.00	50.00	-		---	0	--	--	2	50.00	50.00	-		---
Habitat Means			--	--		1.05	2.10					--	--		14.58	25.40					--	--		14.58	25.40			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Genera not separated.

(b) Eiachista, Ectocarpus and Pilayella.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.237. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. June 1991. Cleared August 1989. (Continued.)

Site Pair	Mvd	Morphological Group: Saccate Browns N	C	SE	N	O	SE	CV	D	P	Leathesia/Colpomenia (A) (a) N	C	SE	N	O	SE	CV	D	P	Soranthera ulvoidea (A) N	C	SE	N	O	SE	CV	D	P
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-	---
601C/601	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-	---
598C/598	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-	---
1522C/1522	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-	---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00		
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value	---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value	---
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-	---
453C/453	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-	---
601C/601	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-	---
598C/598	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-	---
1522C/1522	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-	---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00		
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value	---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value	---
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-	---
453C/453	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-	---
601C/601	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-	---
598C/598	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-	---
1522C/1522	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-	---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00		
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value	---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value	---

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Morphological Group: Crustose Browns N	C	SE	N	O	SE	CV	D	P	Ralfsia/Petroderma (P) (a) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---								
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---								
601C/601	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---								
598C/598	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---								
1522C/1522	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---								
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00											
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value	
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value	
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---								
453C/453	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---								
601C/601	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---								
598C/598	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---								
1522C/1522	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---								
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00											
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value	
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value	
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---								
453C/453	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---								
601C/601	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---								
598C/598	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---								
1522C/1522	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---								
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00											
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value	
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value	

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.238. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. June 1991. Cleared August 1989.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group: Bladed Reds								Bangia sp. (AE)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
598C/598	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
1522C/1522	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	2.50	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
598C/598	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
1522C/1522	2	0	--	--	3	6.67	6.67	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		2.30	1.68					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	1.67	1.67	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	3	0	--	--	1	2.50	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
598C/598	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
1522C/1522	3	0	--	--	2	11.25	11.25	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--	--		3.88	6.50					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Gigartinaceae Group (P) (a)								Palmaria spp. (A)								Phycodrys riggii (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
598C/598	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
1522C/1522	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
598C/598	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
1522C/1522	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
598C/598	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
1522C/1522	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Chondrus, Iridaea, Mastocarpus and Rhodoglossum.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.238. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. June 1991. Cleared August 1989. (Continued.)

Site Pair	Mvd	Porphyra sp. (A) N	C	SE	N	O	SE	CV	D	P	Rhodymenia pertusa (A) N	C	SE	N	O	SE	CV	D	P	Tokidadendron kurilensis (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
598C/598	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
1522C/1522	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
598C/598	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
1522C/1522	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
598C/598	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
1522C/1522	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--			0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Morphological Group: Coarse Filamentous Reds N	C	SE	N	O	SE	CV	D	P	Articulate Coralline Algae (A) N	C	SE	N	O	SE	CV	D	P	Cryptosiphonia woodii (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
598C/598	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
1522C/1522	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	2.50	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
598C/598	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
1522C/1522	2	0	--	--	3	6.67	6.67	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	6.67	6.67	-		---
Habitat Means			--	--		2.30	1.68					--	--		0.00	0.00					--	--		1.68	1.68			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	1.67	1.67	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	3	0	--	--	1	2.50	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
598C/598	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
1522C/1522	3	0	--	--	2	11.25	11.25	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	3.75	3.75	-		---
Habitat Means			--	--		3.88	6.50					--	--		0.00	0.00					--	--		0.95	1.90			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.238. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. June 1991. Cleared August 1989. (Continued.)

		Endocladia muricata (P)								Gloiopeltis furcata (A)								Neorhodomela/Rhodomela (P) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
598C/598	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
1522C/1522	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	1.67	0.83	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
598C/598	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
1522C/1522	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.42	0.20					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0			0	--	--	-		---
453C/453	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
598C/598	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
1522C/1522	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Odonthalia floccosa (P)								Ptilota/Neoptilota (P) (b)								Morphological Group: Saccate Reds							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
598C/598	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
1522C/1522	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	0.83	0.83	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
598C/598	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
1522C/1522	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.20	0.20					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	1.67	1.67	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	3	0	--	--	1	2.50	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
598C/598	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
1522C/1522	3	0	--	--	2	7.50	7.50	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--	--		2.93	4.60					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(b) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.238. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. June 1991. Cleared August 1989. (Continued.)

Site Pair	Mvd	Halosaccion glandiforme (A) N	C	SE	N	O	SE	CV	D	P	Halosaccion spp. (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
598C/598	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
1522C/1522	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---	
Stouffer's		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---	
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
598C/598	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
1522C/1522	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---	
Stouffer's		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---	
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
598C/598	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
1522C/1522	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---	
Stouffer's		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---	

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Crustose Reds N	C	SE	N	O	SE	CV	D	P	Crustose Coralline Algae (P) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
598C/598	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
1522C/1522	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---	
Stouffer's		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---	
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
598C/598	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
1522C/1522	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---	
Stouffer's		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---	
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
598C/598	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
1522C/1522	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---	
Stouffer's		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---	

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.238. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. June 1991. Cleared August 1989. (Continued.)

		Hildenbrandia sp. (P)								Petrocelis (P)																			
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
601C/601	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---									
598C/598	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---									
1522C/1522	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00												
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
453C/453	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
601C/601	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---									
598C/598	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---									
1522C/1522	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00												
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
453C/453	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
601C/601	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---									
598C/598	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---									
1522C/1522	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---									
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00												
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.239. Algal Percent Cover. Invertebrates. Prince William Sound. Sheltered Rocky. June 1991. Cleared August 1989.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Balanomorpha								Lottiidae								Mytilus							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	1	0	--	--	2	7.50	7.50	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
598C/598	1	0	--	--	2	1.25	1.25	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
1522C/1522	1	0	--	--	3	0.83	0.83	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		2.40	2.40					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	0.83	0.83	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	2	0	--	--	2	5.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	2.50	2.50	-		---
598C/598	2	0	--	--	2	11.25	8.75	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
1522C/1522	2	0	--	--	3	0.83	0.83	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		4.48	2.60					--	--		0.00	0.00					--	--		0.63	0.63			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	6.67	6.67	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	15.00	--	-		---
598C/598	3	0	--	--	1	2.50	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
1522C/1522	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	6.25	6.25	-		---
Habitat Means			--	--		2.30	3.35					--	--		0.00	0.00					--	--		5.33	3.15			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Nucella lamellosa								Littorinidae								Mollusca							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
598C/598	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
1522C/1522	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.83	0.83	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	1.25	1.25	-		---	0	--	--	2	0.00	0.00	-		---
598C/598	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
1522C/1522	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.53	0.53					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
598C/598	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
1522C/1522	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.240. Algal Percent Cover. Substrates. Prince William Sound. S
Results of statistical differences between means of control and oiled s
SE = standard error; D = direction of difference; + = control > oiled;

		Rock																													
Site Pair	Wyd	N	C	SE	N	O	SE	CV	D	P																					
453C/453	1	0	--	--	3	96.67	3.33	-		---	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---					
601C/601	1	0	--	--	2	83.75	1.25	-		---	0	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	0.00	-	---					
598C/598	1	0	--	--	2	97.50	2.50	-		---	0	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	0.00	-	---					
1522C/1522	1	0	--	--	3	96.67	3.33	-		---	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---					
Habitat Means			--	--		93.68	2.60					--	--		0.00	0.00				--	--		0.00	0.00							
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---					
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---					
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---					
453C/453	2	0	--	--	3	91.67	4.64	-		---	0	--	--	3	0.00	0.00	-	---	0	--	-	3	0.00	0.00	-	---					
601C/601	2	0	--	--	2	90.00	2.50	-		---	0	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	0.00	-	---					
598C/598	2	0	--	--	2	75.00	10.00	-		---	0	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	0.00	-	---					
1522C/1522	2	0	--	--	3	43.33	23.33	-		---	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---					
Habitat Means			--	--		75.00	10.10					--	--		0.00	0.00				--	--		0.00	0.00							
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---					
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---					
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---					
453C/453	3	0	--	--	3	77.50	12.99	-		---	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---					
601C/601	3	0	--	--	1	70.00	--	-		---	0	--	--	1	0.00	--	-	---	0	--	--	1	0.00	--	-	---					
598C/598	3	0	--	--	1	25.00	--	-		---	0	--	--	1	0.00	--	-	---	0	--	--	1	0.00	--	-	---					
1522C/1522	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	0.00	-	---					
Habitat Means			--	--		43.13	6.50					--	--		0.00	0.00				--	--		0.00	0.00							
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---					
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---					

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Shell Fragments									Water								Zostera/Phyllospadix							
Site Pair	Wyd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
598C/598	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
1522C/1522	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00				--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	2	0	--	--	2	1.25	1.25	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
598C/598	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
1522C/1522	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.33	0.33					--	--		0.00	0.00				--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
598C/598	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
1522C/1522	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00				--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.240. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. June 1991. Cleared August 1989. (Continued.)

		Sand and Mud								Total Substrate																
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV D P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---							
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	96.67	3.33	-		---							
601C/601	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	83.75	1.25	-		---							
598C/598	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	97.50	2.50	-		---							
1522C/1522	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	96.67	3.33	-		---							
Habitat Means			--	--		0.00	0.00					--	--		93.68	2.60										
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---							
453C/453	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	91.67	4.64	-		---							
601C/601	2	0	--	--	2	1.25	1.25	-		---	0	--	--	2	91.25	1.25	-		---							
598C/598	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	75.00	10.00	-		---							
1522C/1522	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	43.33	23.33	-		---							
Habitat Means			--	--		0.33	0.33					--	--		75.33	9.80										
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---							
453C/453	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	77.50	12.99	-		---							
601C/601	3	0	--	--	1	0.00	--	-		---	0	--	--	1	70.00	--	-		---							
598C/598	3	0	--	--	1	0.00	--	-		---	0	--	--	1	25.00	--	-		---							
1522C/1522	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---							
Habitat Means			--	--		0.00	0.00					--	--		43.13	6.50										
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.241. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. August 1992. Cleared July 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Algal Diversity Index (a)								Algal Taxa Richness (b)								Total Algae							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.67	0.21	5	0.20	0.20	-	+	0.148	6	27.92	15.66	5	0.50	0.50	-	+	0.102
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.00	0.00	6	0.83	0.17	-	+	0.363	6	52.50	15.71	6	15.83	6.73	-	+	0.048
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.50	0.22	6	0.17	0.17	-	+	0.260	6	10.00	8.09	6	16.67	16.67	-	-	0.845
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.17	0.17	-	-	0.363	6	0.00	0.00	6	2.08	2.08	-	-	0.363
1522C/1522	1	6	0.00	0.00	6	0.04	0.04	-	-	0.363	6	0.83	0.17	6	1.00	0.26	-	-	0.600	6	24.17	11.08	6	60.42	17.53	-	-	0.125
Habitat Means			0.00	0.00		0.01	0.01		-			0.60	0.12		0.47	0.19		+			22.92	10.12		19.10	8.70		-	
Fisher's		Power	---		Power-50%		---	P-value		0.536	Power	0.346		Power-50%		0.000	P-value		0.182	Power	0.016		Power-50%		0.372	P-value		0.371xy
Stouffer's		Power	---		Power-50%		---	P-value		0.425	Power	0.222		Power-50%		0.000	P-value		0.449	Power	0.000		Power-50%		0.467	P-value		0.581
4825C/1424	2	6	0.08	0.07	5	0.00	0.00	-	+	0.291	6	1.33	0.42	5	0.60	0.24	-	-	0.189	6	35.83	14.60	5	11.00	4.78	-	+	0.196
453C/453	2	5	0.03	0.03	6	0.04	0.04	-	-	0.856	5	1.20	0.20	6	0.83	0.31	-	+	0.366	5	37.50	15.19	6	25.83	14.12	-	+	0.489
601C/601	2	6	0.07	0.07	6	0.00	0.00	-	-	0.363	6	0.67	0.49	6	0.33	0.21	-	+	0.549	6	17.50	13.89	6	15.42	11.19	-	+	0.925
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.17	0.17	6	0.50	0.22	-	-	0.260	6	0.83	0.83	6	27.08	16.74	-	-	0.177
1522C/1522	2	6	0.03	0.03	4	0.12	0.07	-	-	0.264	6	0.83	0.31	4	2.00	0.91	-	-	0.191	6	18.75	7.47	4	63.75	21.90	-	-	0.101
Habitat Means			0.04	0.04		0.03	0.02		-			0.84	0.32		0.85	0.38		+			22.08	10.40		28.62	13.74		+	
Fisher's		Power	0.003		Power-50%		0.040	P-value		0.643 y	Power	0.161		Power-50%		0.929	P-value		0.343 y	Power	0.035		Power-50%		0.614	P-value		0.504 y
Stouffer's		Power	0.000		Power-50%		0.199	P-value		0.511	Power	0.058		Power-50%		0.951	P-value		0.635	Power	0.008		Power-50%		0.735	P-value		0.794
4825C/1424	3	4	0.34	0.14	5	0.27	0.14	-	+	0.712	4	3.00	1.08	5	2.80	0.92	-	+	0.891	4	40.63	14.12	5	79.00	12.88	-	-	0.074
453C/453	3	2	0.22	0.22	4	0.00	0.00	-	+	0.500	2	2.00	1.00	4	0.50	0.29	-	+	0.116	2	21.25	6.25	4	8.75	5.45	-	+	0.253
601C/601	3	4	0.29	0.10	6	0.03	0.02	-	+	0.082	4	2.50	0.65	6	1.00	0.37	-	+	0.060	4	35.63	15.86	6	34.58	16.09	-	+	0.760
598C/598	3	6	0.14	0.06	6	0.13	0.06	-	+	0.900	6	1.67	0.33	6	1.33	0.49	-	+	0.588	6	27.50	14.78	6	48.75	17.96	-	-	0.599
1522C/1522	3	6	0.20	0.09	4	0.35	0.12	-	-	0.366	6	1.67	0.67	4	3.75	1.03	-	-	0.112	6	32.50	11.81	4	74.38	20.06	-	-	0.071
Habitat Means			0.24	0.12		0.15	0.07		+			2.17	0.75		1.88	0.62		-			31.50	12.58		49.12	14.52		-	
Fisher's		Power	0.521		Power-50%		0.856	P-value		0.211	Power	---		Power-50%		---	P-value		0.077	Power	---		Power-50%		---	P-value		0.076
Stouffer's		Power	0.352		Power-50%		0.873	P-value		0.235	Power	---		Power-50%		---	P-value		0.084	Power	0.212		Power-50%		0.975	P-value		0.361

(a) Modified Shannon index.
(b) Taxa richness calculations are explained in the methods.

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of ovra.
z Only one site pair.

		Total Invertebrates								Rock								Perennials (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	5.83	2.11	5	50.00	20.57	-	-	0.140	6	64.17	17.11	5	49.50	20.68	-	+	0.651	6	27.92	15.66	5	0.50	0.50	-	+	0.102
453C/453	1	6	0.00	0.00	6	0.83	0.83	-	-	0.363	6	47.50	15.71	6	83.33	7.41	-	-	0.054	6	52.50	15.71	6	15.83	6.73	-	+	0.048
601C/601	1	6	5.42	3.06	6	5.83	1.67	-	-	0.534	6	84.58	7.46	6	77.50	15.55	-	+	0.583	6	10.00	8.09	6	16.67	16.67	-	-	0.845
598C/598	1	6	5.00	2.50	6	5.42	2.77	-	-	0.663	6	95.00	2.50	6	92.50	3.42	-	+	0.955	6	0.00	0.00	6	2.08	2.08	-	-	0.363
1522C/1522	1	6	7.50	4.79	6	4.17	2.64	-	+	0.740	6	68.33	9.48	6	35.42	15.78	-	+	0.089	6	24.17	11.08	6	60.42	17.53	-	-	0.125
Habitat Means			4.74	2.50		13.24	5.70		-			71.92	10.46		67.64	12.58		+			22.92	10.12		19.10	8.70		-	
Fisher's		Power	0.359		Power-50%		0.792	P-value		0.151	Power	0.154		Power-50%		0.930	P-value		0.255x	Power	0.014		Power-50%		0.354	P-value		0.371xy
Stouffer's		Power	0.334		Power-50%		0.860	P-value		0.136	Power	0.065		Power-50%		0.958	P-value		0.668	Power	0.000		Power-50%		0.488	P-value		0.581
4825C/1424	2	6	16.67	15.19	5	51.50	19.31	-	-	0.162	6	38.33	17.45	5	37.50	20.54	-	+	0.835	6	28.75	10.93	5	11.00	4.78	-	+	0.237
453C/453	2	5	25.00	14.81	6	17.92	7.23	-	+	0.807	5	37.50	16.58	6	56.25	11.19	-	-	0.362	5	37.00	15.34	6	25.83	14.12	-	+	0.505
601C/601	2	6	22.92	12.87	6	11.67	2.79	-	+	0.576	6	59.58	15.10	6	72.92	11.50	-	-	0.492	6	15.42	13.97	6	15.42	11.19	-	o	0.981
598C/598	2	6	20.83	6.08	6	23.75	7.49	-	-	0.937	6	78.33	6.11	6	49.17	9.99	-	+	0.027	6	0.83	0.83	6	27.08	16.74	-	-	0.177
1522C/1522	2	6	20.83	9.39	4	9.38	3.59	-	+	0.493	6	60.42	3.84	4	26.88	21.95	-	+	0.229	6	17.92	7.26	4	60.62	20.88	-	-	0.113
Habitat Means			21.24	11.68		22.86	8.08		+			54.82	11.82		48.56	15.04		+			19.98	9.66		27.98	13.54		-	
Fisher's		Power	0.032		Power-50%		0.445	P-value		0.576 y	Power	0.169		Power-50%		0.786	P-value		0.110	Power	0.167		Power-50%		0.548	P-value		0.236
Stouffer's		Power	0.015		Power-50%		0.582	P-value		0.442	Power	---		Power-50%		---	P-value		0.088	Power	0.128		Power-50%		0.691	P-value		0.196
4825C/1424	3	4	2.50	2.50	5	0.00	0.00	-	+	0.391	4	40.63	11.61	5	21.00	12.88	-	+	0.223	4	25.00	9.13	5	74.00	14.59	-	-	0.038
453C/453	3	2	17.50	17.50	4	24.38	3.44	-	-	0.387	2	61.25	23.75	4	66.87	6.64	-	-	0.817	2	18.75	8.75	4	8.75	5.45	-	+	0.332
601C/601	3	4	6.25	5.45	6	5.42	3.19	-	-	0.988	4	58.13	15.36	6	60.00	17.48	-	-	0.821	4	29.38	11.24	6	26.67	16.30	-	+	0.606
598C/598	3	6	8.33	6.04	6	5.42	2.45	-	+	0.963	6	64.17	14.21	6	45.83	17.16	-	+	0.489	6	20.00	11.65	6	38.75	15.07	-	-	0.513
1522C/1522	3	6	6.25	3.40	4	0.63	0.63	-	+	0.252	6	32.50	11.60	4	25.00	19.45	-	+	0.697	6	29.58	10.87	4	59.38	15.15	-	-	0.142
Habitat Means			8.18	6.98		7.16	1.94		+			51.34	15.32		43.74	14.74		+			24.56	10.34		41.54	13.34		-	
Fisher's		Power	0.068		Power-50%		0.304	P-value		0.381	Power	0.281		Power-50%		0.819	P-value		0.326	Power	---		Power-50%		---	P-value		0.074
Stouffer's		Power	0.090		Power-50%		0.448	P-value		0.525	Power	0.293		Power-50%		0.868	P-value		0.270	Power	0.212		Power-50%		0.944	P-value		0.320

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.241. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. August 1992. Cleared July 1990. (Continued.)

		Annuals (A)								Ephemerals (AE)															
Site Pair	Mwd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's	Power		---		Power-50%		---	P-value		0.732	Power		---		Power-50%		---	P-value		0.732	Power		---		Power-50%		---	P-value	
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value	
4825C/1424	2	6	7.08	6.60	5	0.00	0.00	-	+	0.264	6	7.08	6.60	5	0.00	0.00	-	+	0.264									
453C/453	2	5	0.50	0.50	6	0.00	0.00	-	+	0.374	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
601C/601	2	6	2.08	2.08	6	0.00	0.00	-	+	0.363	6	2.08	2.08	6	0.00	0.00	-	+	0.363									
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	2	6	0.83	0.83	4	3.13	1.88	-	-	0.272	6	0.00	0.00	4	1.25	1.25	-	-	0.391									
Habitat Means			2.10	2.00		0.62	0.38		+			1.84	1.74		0.26	0.26		-										
Fisher's	Power		0.007		Power-50%		0.015	P-value		0.254	Power		0.000		Power-50%		0.000	P-value		0.384	Power		---		Power-50%		---	P-value	
Stouffer's	Power		0.060		Power-50%		0.179	P-value		0.271	Power		0.000		Power-50%		0.000	P-value		0.426	Power		---		Power-50%		---	P-value	
4825C/1424	3	4	15.63	6.72	5	5.00	3.45	-	+	0.212	4	15.00	6.21	5	0.00	0.00	-	-	0.069									
453C/453	3	2	2.50	2.50	4	0.00	0.00	-	+	0.500	2	0.00	0.00	4	0.00	0.00	-	o	1.000									
601C/601	3	4	6.25	4.73	6	7.92	6.96	-	-	0.926	4	0.63	0.63	6	7.08	7.08	-	-	0.617									
598C/598	3	6	7.50	3.76	6	10.00	5.36	-	-	0.833	6	5.83	3.91	6	9.58	5.02	-	-	0.581									
1522C/1522	3	6	2.92	2.08	4	15.00	7.57	-	-	0.120	6	0.83	0.83	4	8.13	4.72	-	-	0.147									
Habitat Means			6.96	3.96		7.58	4.70		-			4.44	2.30		4.96	3.36		-										
Fisher's	Power		0.052		Power-50%		0.657	P-value		0.466	Power		0.101		Power-50%		0.382	P-value		0.320x	Power		---		Power-50%		---	P-value	
Stouffer's	Power		0.015		Power-50%		0.742	P-value		0.509	Power		0.021		Power-50%		0.542	P-value		0.277	Power		---		Power-50%		---	P-value	

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.242. Algal Percent Cover. Chlorophyta. Prince William Sound. Sheltered Rocky. August 1992. Cleared July 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta							Morphological Group: Bladed Greens							Bladed Greens (AE) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---		P-value	0.732	Power	---			Power-50%	---		P-value	0.732	Power	---			Power-50%	---		P-value	0.732
Stouffer's		Power	---			Power-50%	---		P-value	0.500	Power	---			Power-50%	---		P-value	0.500	Power	---			Power-50%	---		P-value	0.500
4825C/1424	2	6	5.42	4.93	5	0.00	0.00	-	+	0.251	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	1.67	1.67	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.83	0.83	4	1.25	1.25	-	-	0.779	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			1.58	1.48		0.26	0.26		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.001			Power-50%	0.001		P-value	0.333	Power	---			Power-50%	---		P-value	0.732	Power	---			Power-50%	---		P-value	0.732
Stouffer's		Power	0.010			Power-50%	0.018		P-value	0.378	Power	---			Power-50%	---		P-value	0.500	Power	---			Power-50%	---		P-value	0.500
4825C/1424	3	4	15.00	6.21	5	2.50	1.94	-	+	0.100	4	3.75	3.75	5	0.00	0.00	-	+	0.391	4	3.75	3.75	5	0.00	0.00	-	+	0.391
453C/453	3	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	0.63	0.63	6	7.08	7.08	-	-	0.617	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	7.50	3.76	6	9.58	5.02	-	-	0.855	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	2.92	2.08	4	10.00	6.12	-	-	0.351	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			5.20	2.54		5.84	4.02		-			0.76	0.76		0.00	0.00		+			0.76	0.76		0.00	0.00		+	
Fisher's		Power	0.049			Power-50%	0.499		P-value	0.530x	Power	---			Power-50%	---		P-value	0.550	Power	---			Power-50%	---		P-value	0.550
Stouffer's		Power	0.012			Power-50%	0.643		P-value	0.412	Power	---			Power-50%	---		P-value	0.453	Power	---			Power-50%	---		P-value	0.453

(a) Korngaardia, Monostroma, Ulva and Ulvaria.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Fine Filamentous Greens								Acrosiphonia sp. (A)								Chaetomorpha/Rhizoclonium (A) (a)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---		P-value	0.732	Power	---			Power-50%	---		P-value	0.732	Power	---			Power-50%	---		P-value	0.732
Stouffer's		Power	---			Power-50%	---		P-value	0.500	Power	---			Power-50%	---		P-value	0.500	Power	---			Power-50%	---		P-value	0.500
4825C/1424	2	6	5.42	4.93	5	0.00	0.00	-	-	0.251	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.83	0.83	4	1.25	1.25	-	-	0.779	6	0.83	0.83	4	1.25	1.25	-	-	0.779	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			1.24	1.14		0.26	0.26		+			0.16	0.16		0.26	0.26		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000			Power-50%	0.000		P-value	0.504	Power	---			Power-50%	---		P-value	0.684	Power	---			Power-50%	---		P-value	0.732
Stouffer's		Power	0.000			Power-50%	0.000		P-value	0.460	Power	---			Power-50%	---		P-value	0.477	Power	---			Power-50%	---		P-value	0.500
4825C/1424	3	4	9.38	3.29	5	2.50	1.94	-	+	0.152	4	0.00	0.00	5	2.50	1.94	-	-	0.209	4	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	3	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	0.63	0.63	6	7.08	7.08	-	-	0.617	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	7.50	3.76	6	9.58	5.02	-	-	0.855	6	1.67	1.67	6	0.00	0.00	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	2.92	2.08	4	10.00	6.12	-	-	0.351	6	2.08	2.08	4	1.88	1.88	-	+	0.924	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			4.08	1.96		5.84	4.02		-			0.76	0.76		0.88	0.76		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.047			Power-50%	0.528		P-value	0.525	Power	0.000			Power-50%	---		P-value	0.634 y	Power	---			Power-50%	---		P-value	0.732
Stouffer's		Power	0.018			Power-50%	0.674		P-value	0.401	Power	0.000			Power-50%	---		P-value	0.291	Power	---			Power-50%	---		P-value	0.500

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.242. Algal Percent Cover. Chlorophyta. Prince William Sound. Sheltered Rocky. August 1992. Cleared July 1990. (Continued.)

Site Pair	Mvd	Cladophora sp. (AE) N	C	SE	N	O	SE	CV	D	P	Ulothrix sp. (AE) N	C	SE	N	O	SE	CV	D	P	Urospora sp. (AE) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	5.42	4.93	5	0.00	0.00	-	+	0.251	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			1.08	0.98		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.468	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.437	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	4	9.38	3.29	5	0.00	0.00	-	+	0.060	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00		o	1.000
453C/453	3	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	0.63	0.63	6	7.08	7.08	-	-	0.617	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	5.83	3.91	6	9.58	5.02	-	-	0.581	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.83	0.83	4	8.13	4.72	-	-	0.147	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			3.32	1.72		4.96	3.36		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.113		Power-50%		0.419	P-value		0.321x	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.026		Power-50%		0.551	P-value		0.280	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Morphological Group: Tubular and Saccate Greens N	C	SE	N	O	SE	CV	D	P	Blidingia/Enteromorpha (AE) (a) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---			
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---			
4825C/1424	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000									
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
601C/601	2	6	1.67	1.67	6	0.00	0.00	-	+	0.363	6	1.67	1.67	6	0.00	0.00	-	+	0.363									
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000									
Habitat Means			0.34	0.34		0.00	0.00		-			0.34	0.34		0.00	0.00		+										
Fisher's		Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---			
Stouffer's		Power	---		Power-50%		---	P-value		0.417	Power	---		Power-50%		---	P-value		0.417	Power	---		Power-50%		---			
4825C/1424	3	4	1.88	1.88	5	0.00	0.00	-	+	0.391	4	1.88	1.88	5	0.00	0.00	-	+	0.391									
453C/453	3	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000									
601C/601	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000									
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000									
Habitat Means			0.38	0.38		0.00	0.00		+			0.38	0.38		0.00	0.00		·										
Fisher's		Power	---		Power-50%		---	P-value		0.550	Power	---		Power-50%		---	P-value		0.550	Power	---		Power-50%		---			
Stouffer's		Power	---		Power-50%		---	P-value		0.453	Power	---		Power-50%		---	P-value		0.453	Power	---		Power-50%		---			

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.243. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. August 1992. Cleared July 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta							Morphological Group: Bladed Browns							Total Fucus gardneri (P)						
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	27.92	15.66	5	0.50	0.50	-	+	0.102	6	27.92	15.66	5	0.50	0.50	-	+	0.102	6	27.92	15.66	5	0.50	0.50	-	+	0.102
453C/453	1	6	52.50	15.71	6	15.83	6.73	-	+	0.048	6	52.50	15.71	6	15.83	6.73	-	+	0.048	6	52.50	15.71	6	15.83	6.73	-	+	0.048
601C/601	1	6	10.00	8.09	6	16.67	16.67	-	-	0.845	6	10.00	8.09	6	16.67	16.67	-	-	0.845	6	10.00	8.09	6	16.67	16.67	-	-	0.845
598C/598	1	6	0.00	0.00	6	2.08	2.08	-	-	0.363	6	0.00	0.00	6	2.08	2.08	-	-	0.363	6	0.00	0.00	6	2.08	2.08	-	-	0.363
1522C/1522	1	6	24.17	11.08	6	48.33	17.27	-	-	0.256	6	24.17	11.08	6	48.33	17.27	-	-	0.256	6	24.17	11.08	6	48.33	17.27	-	-	0.256
Habitat Means			22.92	10.12		16.68	8.66		-			22.92	10.12		16.68	8.66		-			22.92	10.12		16.68	8.66		-	
Fisher's		Power	0.008			Power-50%	0.362		P-value	0.495xy	Power	0.007			Power-50%	0.352		P-value	0.495xy	Power	0.010			Power-50%	0.365		P-value	0.495xy
Stouffer's		Power	0.001			Power-50%	0.488		P-value	0.613	Power	0.001			Power-50%	0.473		P-value	0.613	Power	0.001			Power-50%	0.491		P-value	0.613
4825C/1424	2	6	30.42	11.54	5	11.00	4.78	-	+	0.221	6	28.75	10.93	5	11.00	4.78	-	+	0.237	6	28.75	10.93	5	11.00	4.78	-	+	0.237
453C/453	2	5	32.50	17.19	6	23.75	14.52	-	+	0.723	5	32.00	17.42	6	23.75	14.52	-	+	0.807	5	32.00	17.42	6	23.75	14.52	-	-	0.807
601C/601	2	6	14.58	14.09	6	15.42	11.19	-	-	0.921	6	14.17	14.17	6	15.42	11.19	-	-	0.842	6	14.17	14.17	6	15.42	11.19	-	-	0.842
598C/598	2	6	0.83	0.83	6	27.08	16.74	-	-	0.177	6	0.83	0.83	6	27.08	16.74	-	-	0.177	6	0.83	0.83	6	27.08	16.74	-	-	0.177
1522C/1522	2	6	16.67	7.71	4	59.38	20.22	-	-	0.101	6	16.67	7.71	4	57.50	19.97	-	-	0.111	6	16.67	7.71	4	57.50	19.97	-	-	0.111
Habitat Means			19.00	10.26		27.34	13.48		-			18.50	10.20		26.96	13.44		-			18.50	10.20		26.96	13.44		-	
Fisher's		Power	0.157			Power-50%	0.272		P-value	0.197	Power	0.189			Power-50%	0.466		P-value	0.189	Power	0.185			Power-50%	0.474		P-value	0.189
Stouffer's		Power	0.151			Power-50%	0.441		P-value	0.146	Power	0.135			Power-50%	0.622		P-value	0.129	Power	0.136			Power-50%	0.602		P-value	0.129
4825C/1424	3	4	21.88	7.17	5	58.50	20.46	-	-	0.185	4	21.88	7.17	5	58.50	20.46	-	-	0.185	4	21.88	7.17	5	58.50	20.46	-	-	0.185
453C/453	3	2	17.50	10.00	4	8.75	5.45	-	+	0.388	2	17.50	10.00	4	8.75	5.45	-	+	0.388	2	17.50	10.00	4	8.75	5.45	-	+	0.388
601C/601	3	4	17.50	4.21	6	27.08	16.74	-	-	0.959	4	12.50	1.02	6	26.25	16.10	-	-	0.880	4	12.50	1.02	6	26.25	16.10	-	-	0.880
598C/598	3	6	18.75	10.42	6	38.75	15.07	-	-	0.466	6	18.75	10.42	6	38.75	15.07	-	-	0.466	6	18.75	10.42	6	38.75	15.07	-	-	0.466
1522C/1522	3	6	21.67	8.56	4	50.00	13.50	-	-	0.103	6	21.67	8.56	4	48.13	12.18	-	-	0.111	6	21.67	8.56	4	48.13	12.18	-	-	0.111
Habitat Means			19.48	8.08		36.64	14.26		-			18.48	7.44		36.10	13.88		-			18.48	7.44		36.10	13.88		-	
Fisher's		Power	0.268			Power 50%	0.924		P-value	0.114	Power	0.308			Power-50%	0.936		P-value	0.114	Power	0.308			Power-50%	0.937		P-value	0.114
Stouffer's		Power	0.232			Power-50%	0.952		P-value	0.260	Power	0.277			Power-50%	0.957		P-value	0.255	Power	0.285			Power-50%	0.959		P-value	0.255

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Adult Fucus gardneri (P) (> 2cm)							Juvenile Fucus gardneri (P) (<= 2cm)							Fucus Stipes (P) (a)						
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	18.75	15.38	5	0.00	0.00	-	+	0.192	6	9.17	8.68	5	0.50	0.50	-	+	0.407	6	2.08	2.08	5	0.00	0.00	-	+	0.363
453C/453	1	6	45.83	16.96	6	10.42	6.99	-	+	0.077	6	6.67	3.27	6	5.42	3.19	-	-	0.845	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	9.58	8.18	6	16.67	16.67	-	-	0.778	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	2.08	2.08	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	18.75	11.76	6	48.33	17.27	-	-	0.159	6	5.42	2.45	6	0.00	0.00	-	+	0.076	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			18.60	10.48		15.50	8.62		-			4.34	2.98		1.18	0.74		+			0.42	0.42		0.00	0.00		-	
Fisher's		Power	0.014			Power-50%	0.290		P-value	0.386xy	Power	---			Power-50%	---		P-value	0.093	Power	---			Power-50%	---		P-value	0.536
Stouffer's		Power	0.001			Power-50%	0.444		P-value	0.522	Power	0.338			Power-50%	0.416		P-value	0.213	Power	---			Power-50%	---		P-value	0.450
4825C/1424	2	6	18.33	11.97	5	11.00	4.78	-	+	0.865	6	10.42	6.75	5	0.00	0.00	-	+	0.112	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	2	5	28.50	16.46	6	23.75	14.52	-	+	0.891	5	3.50	3.50	6	0.00	0.00	-	+	0.374	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	14.17	14.17	6	15.42	11.19	-	-	0.842	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.83	0.83	6	27.08	16.74	-	-	0.177	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	16.67	7.71	4	57.50	19.97	-	-	0.111	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			15.70	10.24		26.96	13.44		-			2.78	2.06		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.267			Power-50%	0.323		P-value	0.144	Power	0.011			Power-50%	0.004		P-value	0.209	Power	---			Power-50%	---		P-value	0.732
Stouffer's		Power	---			Power-50%	---		P-value	0.092	Power	0.010			Power-50%	0.004		P-value	0.244	Power	---			Power-50%	---		P-value	0.500
4825C/1424	3	4	18.13	6.32	5	57.50	21.07	-	-	0.174	4	3.75	2.98	5	1.00	1.00	-	+	0.382	4	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	3	2	12.50	5.00	4	1.25	1.25	-	+	0.037	2	5.00	5.00	4	7.50	4.45	-	-	0.860	2	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	12.50	1.02	6	26.25	16.10	-	-	0.880	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	18.75	10.42	6	38.75	15.07	-	-	0.466	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	21.67	8.56	4	48.13	12.18	-	-	0.111	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			16.72	6.26		34.40	13.16		-			1.76	1.60		1.70	1.10		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.238			Power-50%	0.950		P-value	0.123x	Power	0.009			Power-50%	0.037		P-value	0.571	Power	---			Power-50%	---		P-value	0.732
Stouffer's		Power	0.129			Power-50%	0.963		P-value	0.494	Power	0.005			Power-50%	0.031		P-value	0.489	Power	---			Power-50%	---		P-value	0.500

(a) Dead Fucus plants or stipes without blades.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.243. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. August 1992. Cleared July 1990. (Continued.)

		Petalonia/Punctaria (AE) (b)								Morphological Group: Coarse Filamentous Browns								Dictyosiphon sp. (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	3	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

(b) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Myelophycus/Scytosiphon (A) (a)								Morphological Group: Fine Filamentous Browns								Fine Filamentous Browns (AE) (b)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	1.67	1.67	5	0.00	0.00	-	-	0.363	6	1.67	1.67	5	0.00	0.00	-	-	0.363
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.42	0.42	6	0.00	0.00	-	-	0.363	6	0.42	0.42	6	0.00	0.00	-	-	0.363
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	1.25	1.25	-	-	0.391	6	0.00	0.00	4	1.25	1.25	-	-	0.391
Habitat Means			0.00	0.00		0.00	0.00		o			0.42	0.42		0.26	0.26		-			0.42	0.42		0.26	0.26		-	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.438	Power	---		Power-50%		---	P-value		0.438
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.437	Power	---		Power-50%		---	P-value		0.437
4825C/1424	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	3	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

(a) Genera not separated.

(b) Blachiella, Ectocarpus and Pilayella.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.243. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. August 1992. Cleared July 1990. (Continued.)

		Morphological Group: Saccate Browns								Leathesia/Colpomenia (A) (a)								Soranthera ulvoidea (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	2	5	0.50	0.50	6	0.00	0.00	-	+	0.374	5	0.50	0.50	6	0.00	0.00	-	+	0.374	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	4	0.63	0.63	-	-	0.391	6	0.00	0.00	4	0.63	0.63	-	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.10	0.10		0.12	0.12		+			0.10	0.10		0.12	0.12		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.634 y	Power	---		Power-50%		---	P-value		0.634 y	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.385	Power	---		Power-50%		---	P-value		0.385	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	3	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	5.00	5.00	6	0.83	0.83	-	+	0.469	4	5.00	5.00	6	0.83	0.83	-	+	0.469	4	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.00	0.00	4	1.88	1.88	-	-	0.391	6	0.00	0.00	4	1.88	1.88	-	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			1.00	1.00		0.54	0.54		-			1.00	1.00		0.54	0.54		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.633 y	Power	---		Power-50%		---	P-value		0.633 y	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.496	Power	---		Power-50%		---	P-value		0.496	Power	---		Power-50%		---	P-value		0.500

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Crustose Browns								Ralfsia/Petroderma (P) (a)															
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000									
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
4825C/1424	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000									
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
4825C/1424	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000									
453C/453	3	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000									
601C/601	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000									
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.244. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1992. Cleared July 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; - = control > oiled; + = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group: Bladed Reds								Bangia sp. (AE)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	12.08	12.08	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		2.42	2.42		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.425	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	2	5	5.00	3.45	6	2.08	2.08	-	+	0.458	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	1.25	1.25	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	1.25	1.25	4	3.13	1.88	-	-	0.360	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			1.52	1.22		1.04	0.80		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.009		Power-50%		0.028	P-value		0.483	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.011		Power-50%		0.073	P-value		0.340	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	4	3.75	3.75	5	18.00	11.60	-	-	0.303	4	2.50	2.50	5	2.50	1.94	-	o	0.882	4	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	3	2	3.75	3.75	4	0.00	0.00	-	+	0.500	2	2.50	2.50	4	0.00	0.00	-	+	0.500	2	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	17.50	11.86	6	0.42	0.42	-	+	0.148	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	1.25	1.25	6	0.42	0.42	-	+	0.718	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	7.92	3.84	4	14.37	8.32	-	-	0.483	6	0.83	0.83	4	3.75	1.61	-	-	0.092	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			6.86	4.92		6.64	4.14		+			1.16	1.16		1.26	0.70		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.155		Power-50%		0.377	P-value		0.364	Power	0.029		Power-50%		---	P-value		0.385	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.087		Power-50%		0.499	P-value		0.247	Power	0.012		Power-50%		---	P-value		0.511	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Gigartinaceae Group (P) (a)								Palmaria spp. (A)								Phycodrys riggii (A)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	4	1.88	1.88	5	2.50	1.94	-	-	0.786	4	0.63	0.63	5	0.00	0.00	-	+	0.391	4	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	3	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	2.50	2.50	4	0.00	0.00	-	+	0.500	2	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.83	0.83	4	3.13	1.88	-	-	0.272	6	0.00	0.00	4	0.63	0.63	-	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.54	0.54		1.12	0.76		-			0.62	0.62		0.12	0.12		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.018		Power-50%		---	P-value		0.439	Power	---		Power-50%		---	P-value		0.509	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.016		Power-50%		---	P-value		0.395	Power	---		Power-50%		---	P-value		0.383	Power	---		Power-50%		---	P-value		0.500

(a) Chondrus, Iridaea, Mastocarpus and Rhodoglossum.

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.244. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1992. Cleared July 1990. (Continued.)

		Porphyra sp. (A)								Rhodymenia pertusa (A)								Tokidadendron kurilensis (A)							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
4825C/1424	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	3	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Morphological Group: Coarse Filamentous Reds								Articulate Coralline Algae (A)								Cryptosiphonia woodii (A)							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
4825C/1424	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	2	5	3.50	3.50	6	2.08	2.08	-	+	0.805	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	1.25	1.25	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	1.25	1.25	4	1.88	1.88	-	-	0.779	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			1.22	1.22		0.80	0.80		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.533	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.389	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	4	1.25	1.25	5	13.00	8.31	-	-	0.216	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	3	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	16.88	12.05	6	0.42	0.42	-	+	0.164	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	1.25	1.25	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	7.08	3.73	4	9.38	5.98	-	-	0.837	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	1.25	1.25	-	-	0.391
Habitat Means			5.32	3.68		4.56	2.94		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.26	0.26		-	
Fisher's		Powor	0.125		Power-50%		0.185	P-value		0.349	Power	---		Power-50%		---	P-value		0.732	Powor	---		Power-50%		---	P-value		0.550
Stouffer's		Power	0.042		Power-50%		0.329	P-value		0.208	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.429

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.244. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1992. Cleared July 1990. (Continued.)

Site Pair	Mvd	Endocladia muricata (P) N	C	SE	N	O	SE	CV	D	P	Gloiopeltis furcata (A) N	C	SE	N	O	SE	CV	D	P	Neorhodomela/Rhodomela (P) (a) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.732	Power	---		Power-50%	---	P-value			0.732	Power	---		Power-50%	---	P-value			0.732
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500
4825C/1424	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	3.50	3.50	6	2.08	2.08	-	-	0.805
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.25	1.25	6	0.00	0.00	-	.	0.363
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	1.25	1.25	4	1.88	1.88	-	-	0.779
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			1.22	1.22		0.80	0.80		+	
Fisher's		Power	---		Power-50%	---	P-value			0.732	Power	---		Power-50%	---	P-value			0.732	Power	---		Power-50%	---	P-value			0.533
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.389
4825C/1424	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	1.25	1.25	5	13.00	8.31	-	-	0.216
453C/453	3	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	16.88	12.05	6	0.42	0.42	-	+	0.164
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.25	1.25	6	0.00	0.00	-	+	0.363
1522C/1522	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	7.08	3.73	4	8.13	5.90	-	-	0.941
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			5.32	3.68		4.30	2.92		+	
Fisher's		Power	---		Power-50%	---	P-value			0.732	Power	---		Power-50%	---	P-value			0.732	Power	0.121		Power-50%	0.201	P-value			0.334
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	0.050		Power-50%	0.325	P-value			0.200

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.244. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1992. Cleared July 1990. (Continued.)

Site Pair	Mvd	Odonthalia floccosa (P) N	C	SE	N	O	SE	CV	D	P	Ptilota/Neoptilota (P) (b) N	C	SE	N	O	SE	CV	D	P	Morphological Group: Saccate Reds N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.732	Power	---		Power-50%	---	P-value			0.732	Power	---		Power-50%	---	P-value			0.732
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500
4825C/1424	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.732	Power	---		Power-50%	---	P-value			0.732	Power	---		Power-50%	---	P-value			0.732
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500
4825C/1424	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	1.50	1.50	-	-	0.374
453C/453	3	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.42	0.42	-	-	0.363
1522C/1522	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	1.25	1.25	-	-	0.391
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.64	0.64		-	
Fisher's		Power	---		Power-50%	---	P-value			0.732	Power	---		Power-50%	---	P-value			0.732	Power	---		Power-50%	---	P-value			0.235
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.157

(b) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.244. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1992. Cleared July 1990. (Continued.)

		Halosaccion glandiforme (A)								Halosaccion spp. (A)								Morphological Group: Fine Filamentous Reds							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	4	0.00	0.00	5	1.50	1.50	-	-	0.374	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	1.00	1.00	-	-	0.374
453C/453	3	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.63	0.63	6	0.00	0.00	-	+	0.391
598C/598	3	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.00	0.00	4	1.25	1.25	-	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.64	0.64		-			0.00	0.00		0.00	0.00		o			0.12	0.12		0.20	0.20		-	
Fisher's		Power	---		Power-50%		---	P-value		0.235	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.634
Stouffer's		Power	---		Power-50%		---	P-value		0.157	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.530

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Polysiphonia/Pterosiphonia (A) (a)								Morphological Group: Crustose Reds								Crustose Coralline Algae (P)							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	12.08	12.08	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		2.42	2.42		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.425	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	1.50	1.50	6	0.00	0.00	-	+	0.374	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	1.25	1.25	-	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.30	0.30		0.26	0.26		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.634	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.385	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	4	0.00	0.00	5	1.00	1.00	-	-	0.374	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	3	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	1.25	1.25	4	0.00	0.00	-	+	0.500	2	1.25	1.25	4	0.00	0.00	-	+	0.500
601C/601	3	4	0.63	0.63	6	0.00	0.00	-	+	0.391	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.12	0.12		0.20	0.20		-			0.26	0.26		0.00	0.00		+			0.26	0.26		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.634	Power	---		Power-50%		---	P-value		0.598	Power	---		Power-50%		---	P-value		0.598
Stouffer's		Power	---		Power-50%		---	P-value		0.530	Power	---		Power-50%		---	P-value		0.360	Power	---		Power-50%		---	P-value		0.360

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Rvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000									
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	1	6	0.00	0.00	6	12.08	12.08	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		2.42	2.42		-			0.00	0.00		0.00	0.00		o									
Fisher's	Power	---		Power-50%	---	P-value	0.536	Power	---		Power-50%	---	P-value	0.732	Power	---		Power-50%	---	P-value								
Stouffer's	Power	---		Power-50%	---	P-value	0.425	Power	---		Power-50%	---	P-value	0.500	Power	---		Power-50%	---	P-value								
4825C/1424	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000									
453C/453	2	5	1.50	1.50	6	0.00	0.00	-	+	0.374	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	2	6	0.00	0.00	4	1.25	1.25	-	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000									
Habitat Means			0.30	0.30		0.26	0.26		-			0.00	0.00		0.00	0.00		o									
Fisher's	Power	---		Power-50%	---	P-value	0.634	Power	---		Power-50%	---	P-value	0.732	Power	---		Power-50%	---	P-value								
Stouffer's	Power	---		Power-50%	---	P-value	0.385	Power	---		Power-50%	---	P-value	0.500	Power	---		Power-50%	---	P-value								
4825C/1424	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000									
453C/453	3	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000									
601C/601	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000									
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o									
Fisher's	Power	---		Power-50%	---	P-value	0.732	Power	---		Power-50%	---	P-value	0.732	Power	---		Power-50%	---	P-value								
Stouffer's	Power	---		Power-50%	---	P-value	0.500	Power	---		Power-50%	---	P-value	0.500	Power	---		Power-50%	---	P-value								

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.245. Algal Percent Cover. Invertebrates. Prince William Sound. Sheltered Rocky. August 1992. Cleared July 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Balanomorpha							Lottiidae							Mytilus						
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	2.50	2.04	5	48.50	19.69	-	-	0.033	6	3.33	1.24	5	1.00	1.00	-	+	0.165	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.83	0.83	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	5.00	2.81	6	0.83	0.53	-	+	0.256	6	0.42	0.42	6	2.50	0.91	-	-	0.069	6	0.00	0.00	6	1.67	1.67	-	-	0.363
598C/598	1	6	3.75	2.30	6	3.75	2.02	-	o	0.895	6	1.25	0.56	6	0.42	0.42	-	+	0.260	6	0.00	0.00	6	0.83	0.83	-	-	0.363
1522C/1522	1	6	5.42	3.79	6	3.33	2.20	-	-	0.797	6	2.08	1.64	6	0.83	0.83	-	+	0.537	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			3.34	2.18		11.44	5.04		-			1.42	0.76		0.94	0.62		+			0.00	0.00		0.50	0.50		-	
Fisher's		Power	0.188			Power-50%	0.474	P-value		0.169	Power	0.170			Power-50%	0.443	P-value		0.215x	Power	---			Power-50%	---	P-value		0.359
Stouffer's		Power	0.112			Power-50%	0.672	P-value		0.360	Power	0.072			Power-50%	0.595	P-value		0.219	Power	---			Power-50%	---	P-value		0.180
4825C/1424	2	6	16.25	15.27	5	51.50	19.31	-	-	0.148	6	0.42	0.42	5	0.00	0.00	-	+	0.363	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	2	5	25.00	14.81	6	15.83	6.85	-	+	0.702	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	2.08	1.00	-	-	0.081
601C/601	2	6	18.75	11.25	6	4.58	1.98	-	+	0.304	6	1.25	0.56	6	0.00	0.00	-	+	0.076	6	2.92	2.08	6	6.67	1.79	-	-	0.135
598C/598	2	6	12.92	3.38	6	11.67	6.04	-	+	0.528	6	1.25	0.85	6	1.67	1.05	-	-	0.863	6	6.67	3.75	6	9.58	3.73	-	-	0.595
1522C/1522	2	6	5.83	1.79	4	5.63	2.77	-	+	0.850	6	0.00	0.00	4	0.63	0.63	-	-	0.391	6	15.00	7.75	4	3.13	3.13	-	+	0.318
Habitat Means			15.76	9.32		17.84	7.40		-			0.60	0.38		0.46	0.34		+			4.92	2.74		4.30	1.92		-	
Fisher's		Power	0.084			Power-50%	0.575	P-value		0.407 y	Power	0.077			Power-50%	0.216	P-value		0.229	Power	0.328			Power-50%	0.280	P-value		0.101 y
Stouffer's		Power	0.051			Power-50%	0.700	P-value		0.221	Power	0.052			Power-50%	0.333	P-value		0.411	Power	---			Power-50%	---	P-value		0.070
4825C/1424	3	4	2.50	2.50	5	0.00	0.00	-	-	0.391	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	3	2	17.50	17.50	4	14.38	5.72	-	+	0.944	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	10.00	7.57	-	-	0.150
601C/601	3	4	1.88	1.88	6	1.25	1.25	-	+	0.779	4	0.63	0.63	6	0.00	0.00	-	+	0.391	4	3.75	3.75	6	4.17	3.27	-	-	0.906
598C/598	3	6	2.50	2.04	6	0.83	0.83	-	-	0.507	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	5.83	4.17	6	4.17	1.90	-	+	0.852
1522C/1522	3	6	2.50	1.58	4	0.00	0.00	-	-	0.175	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	3.75	2.02	4	0.63	0.63	-	+	0.297
Habitat Means			5.38	5.10		3.30	1.56		+			0.12	0.12		0.00	0.00		+			2.68	2.00		3.80	2.68		-	
Fisher's		Power	0.184			Power-50%	0.405	P-value		0.161	Power	---			Power-50%	---	P-value		0.550	Power	0.057			Power-50%	0.106	P-value		0.478
Stouffer's		Power	0.272			Power-50%	0.595	P-value		0.155	Power	---			Power-50%	---	P-value		0.421	Power	0.036			Power-50%	0.234	P-value		0.334

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Nucella lamellosa							Littorinidae							Mollusca						
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	5	0.50	0.50	-	-	0.374	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.83	0.53	-	-	0.175	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.10	0.10		-			0.00	0.00		0.24	0.18		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.542	Power	0.018			Power-50%	---	P-value		0.256	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	---			Power-50%	---	P-value		0.451	Power	0.018			Power-50%	---	P-value		0.154	Power	---			Power-50%	---	P-value		0.500
4825C/1424	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.83	0.83	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.24	0.24		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.359	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.180	Power	---			Power-50%	---	P-value		0.500
4825C/1424	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	3	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.08	0.08		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.536	Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	---			Power-50%	---	P-value		0.240	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.246. Algal Percent Cover. Substrates. Prince William Sound. Sheltered Rocky. August 1992. Cleared July 1990.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; - = control > oiled; + = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Rock								Oiled Rock								Sand							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	64.17	17.11	5	49.50	20.68	-	+	0.651	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	1	6	47.50	15.71	6	83.33	7.41	-	+	0.054	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	84.58	7.46	6	77.50	15.55	-	+	0.583	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	95.00	2.50	6	92.50	3.42	-	+	0.955	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	68.33	9.48	6	35.42	15.78	-	+	0.089	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			71.92	10.46		67.64	12.58		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.154		Power-50%		0.936	P-value		0.255x	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.060		Power-50%		0.952	P-value		0.668	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	38.33	17.45	5	37.50	20.54	-	+	0.835	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	9.17	9.17	5	0.00	0.00	-	+	0.363
453C/453	2	5	37.50	16.58	6	56.25	11.19	-	+	0.362	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	59.58	15.10	6	72.92	11.50	-	+	0.492	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	78.33	6.11	6	49.17	9.99	-	+	0.027	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	60.42	3.84	4	26.88	21.95	-	+	0.229	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			54.82	11.82		48.56	15.04		+			0.00	0.00		0.00	0.00		o			1.84	1.84		0.00	0.00		+	
Fisher's		Power	0.159		Power-50%		0.803	P-value		0.110	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.536
Stouffer's		Power	---		Power-50%		---	P-value		0.088	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.450
4825C/1424	3	4	40.63	11.61	5	21.00	12.88	-	+	0.223	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	16.25	16.25	5	0.00	0.00	-	-	0.391
453C/453	3	2	61.25	23.75	4	66.87	6.64	-	-	0.817	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	58.13	15.36	6	60.00	17.48	-	-	0.821	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	64.17	14.21	6	45.83	17.16	-	+	0.489	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	32.50	11.60	4	25.00	19.45	-	+	0.697	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	28.75	18.25	4	0.00	0.00	-	+	0.176
Habitat Means			51.34	15.32		43.74	14.74		+			0.00	0.00		0.00	0.00		o			9.02	6.92		0.00	0.00		-	
Fisher's		Power	0.270		Power-50%		0.818	P-value		0.326	Power	---		Power-50%		---	P-value		0.732	Power	0.022		Power-50%		0.015	P-value		0.267
Stouffer's		Power	0.282		Power-50%		0.849	P-value		0.270	Power	---		Power-50%		---	P-value		0.500	Power	0.020		Power-50%		0.015	P-value		0.345

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Shell Fragments								Water								Zosters/Phyllospadix							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	3	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.246. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. August 1992. Cleared July 1990. (Continued.)

		Sand and Mud								Total Substrate															
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	64.17	17.11	5	49.50	20.68	-	+	0.651									
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	47.50	15.71	6	83.33	7.41	-	-	0.054									
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	84.58	7.46	6	77.50	15.55	-	+	0.583									
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	95.00	2.50	6	92.50	3.42	-	+	0.955									
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	68.33	9.48	6	35.42	15.78	-	+	0.089									
Habitat Means			0.00	0.00		0.00	0.00		o			71.92	10.46		67.64	12.58		+										
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	0.157		Power-50%		0.933	P-value		0.255x	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.067		Power-50%		0.954	P-value		0.668	Power	---		Power-50%		---	P-value		
4825C/1424	2	6	9.17	9.17	5	0.00	0.00	-	+	0.363	6	47.50	16.60	5	37.50	20.54	-	-	0.613									
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	37.50	16.58	6	56.25	11.19	-	-	0.362									
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	59.58	15.10	6	72.92	11.50	-	-	0.492									
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	78.33	6.11	6	49.17	9.99	-	+	0.027									
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	60.42	3.84	4	26.88	21.95	-	+	0.229									
Habitat Means			1.84	1.84		0.00	0.00		-			56.66	11.64		48.56	15.04		+										
Fisher's		Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.092	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.450	Power	---		Power-50%		---	P-value		0.081	Power	---		Power-50%		---	P-value		
4825C/1424	3	4	16.25	16.25	5	0.00	0.00	-	+	0.391	4	56.88	13.24	5	21.00	12.88	-	+	0.083									
453C/453	3	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	61.25	23.75	4	66.87	6.64	-	-	0.817									
601C/601	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	58.13	15.36	6	60.00	17.48	-	-	0.821									
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	64.17	14.21	6	45.83	17.16	-	-	0.489									
1522C/1522	3	6	28.75	18.25	4	0.00	0.00	-	+	0.176	6	61.25	10.46	4	25.00	19.45	-	-	0.082									
Habitat Means			9.02	6.92		0.00	0.00		+			60.36	15.42		43.74	14.74		-										
Fisher's		Power	0.020		Power-50%		0.022	P-value		0.267	Power	---		Power-50%		---	P-value		0.061	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.019		Power-50%		0.019	P-value		0.345	Power	0.595		Power-50%		0.993	P-value		0.167	Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.247. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. August 1993. Cleared May 1991.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Algal Diversity Index (a)									Algal Taxa Richness (b)										Total Algae									
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
4825C/1424	1	6	0.00	0.00	5	0.08	0.08	-	-	0.374	6	0.83	0.17	5	0.60	0.60	-	+	0.693		6	16.25	7.38	5	8.50	8.50	-	-	0.274	
453C/453	1	6	0.08	0.05	6	0.04	0.04	-	+	0.539	6	1.17	0.31	6	0.67	0.33	-	-	0.296		6	37.92	13.94	6	15.00	12.11	-	+	0.177	
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.50	0.22	6	0.17	0.17	-	+	0.260		6	2.92	1.64	6	15.42	15.42	-	-	0.670	
598C/598	1	6	0.04	0.04	6	0.00	0.00	-	+	0.363	6	0.33	0.33	6	0.17	0.17	-	+	0.664		6	1.67	1.67	6	1.67	1.67	-	o	1.000	
1522C/1522	1	6	0.00	0.00	6	0.01	0.01	-	-	0.363	6	0.67	0.21	6	0.67	0.33	-	o	1.000		6	15.42	11.09	6	47.08	21.16	-	-	0.284	
Habitat Means			0.03	0.02		0.03	0.03		+			0.70	0.25		0.45	0.32		+				14.84	7.14		17.54	11.78		+		
Fisher's		Power	0.004		Power-50%		0.011	P-value		0.606 y	Power	0.511		Power-50%		0.969	P-value		0.191		Power	0.189		Power-50%		0.466	P-value		0.333 y	
Stouffer's		Power	0.001		Power-50%		0.011	P-value		0.236	Power	0.479		Power-50%		0.977	P-value		0.114		Power	0.107		Power-50%		0.590	P-value		0.292	
4825C/1424	2	5	0.00	0.00	5	0.06	0.06	-	-	0.374	5	1.00	0.00	5	1.00	0.55	-	o	1.000		5	52.00	19.74	5	30.00	17.66	-	+	0.325	
453C/453	2	5	0.09	0.06	6	0.00	0.00	-	+	0.185	5	1.60	0.68	6	0.67	0.21	-	-	0.188		5	46.50	11.98	6	5.00	2.66	-	+	0.016	
601C/601	2	6	0.00	0.00	4	0.03	0.03	-	-	0.391	6	0.50	0.22	4	1.00	0.41	-	-	0.275		6	19.58	12.61	4	41.25	17.21	-	-	0.310	
598C/598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.60	0.24	5	0.60	0.24	-	o	1.000		5	11.00	8.61	5	18.00	13.91	-	-	0.739	
1522C/1522	2	6	0.09	0.05	6	0.05	0.05	-	+	0.586	6	1.50	0.22	6	1.00	0.26	-	-	0.174		6	52.50	15.45	6	78.75	15.83	-	-	0.320	
Habitat Means			0.04	0.02		0.03	0.03		+			1.04	0.27		0.85	0.33		-				36.32	13.68		34.62	13.46		-		
Fisher's		Power	0.018		Power-50%		0.079	P-value		0.490	Power	0.369		Power-50%		1.000	P-value		0.242		Power	0.087		Power-50%		0.518	P-value		0.462xy	
Stouffer's		Power	0.004		Power-50%		0.086	P-value		0.311	Power	0.228		Power-50%		0.999	P-value		0.233		Power	0.025		Power-50%		0.617	P-value		0.764	
4825C/1424	3	5	0.13	0.06	3	0.36	0.15	-	-	0.141	5	2.00	0.45	3	4.00	1.00	-	-	0.078		5	85.00	12.65	3	85.83	3.63	-	-	0.623	
453C/453	3	4	0.11	0.06	4	0.17	0.10	-	-	0.653	4	1.75	0.48	4	1.75	0.48	-	o	1.000		4	90.63	6.49	4	40.00	17.65	-	-	0.031	
601C/601	3	5	0.12	0.07	3	0.08	0.08	-	+	0.797	5	1.20	0.37	3	1.33	0.33	-	-	0.818		5	51.50	18.90	3	75.83	24.17	-	-	0.361	
598C/598	3	4	0.23	0.08	5	0.05	0.05	-	+	0.086	4	2.00	0.41	5	1.60	0.60	-	+	0.619		4	73.13	13.90	5	79.50	18.10	-	-	0.667	
1522C/1522	3	6	0.00	0.00	5	0.16	0.07	-	-	0.088	6	0.67	0.21	5	2.20	0.49	-	-	0.013		6	53.33	18.50	5	68.50	16.46	-	-	0.441	
Habitat Means			0.12	0.05		0.16	0.09					1.52	0.38		2.18	0.58		-				70.70	14.10		69.92	16.02		-		
Fisher's		Power	0.444		Power-50%		0.641	P-value		0.136x	Power	---		Power-50%		---	P-value		0.026		Power	0.054		Power-50%		0.952	P-value		0.357xy	
Stouffer's		Power	0.191		Power-50%		0.751	P-value		0.725	Power	0.437		Power-50%		0.984	P-value		0.335		Power	0.026		Power-50%		0.971	P-value		0.644	

(a) Modified Shannon Index.
(b) Taxa richness calculations are explained in the methods.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Invertebrates									Rock										Perennials (P)									
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
4825C/1424	1	6	2.50	1.29	5	21.50	15.82	-	-	0.251	6	81.25	7.15	5	70.00	15.55	-	+	0.745		6	16.25	7.38	5	7.50	7.50	-	+	0.237	
453C/453	1	6	4.17	4.17	6	3.75	2.80	+	+	0.743	6	57.92	12.19	6	81.25	11.99	-	-	0.123		6	37.92	13.94	6	15.00	12.11	-	+	0.177	
601C/601	1	6	2.92	1.19	6	3.33	1.54	-	-	0.918	6	94.17	1.24	6	81.25	14.81	-	+	0.552		6	2.92	1.64	6	15.42	15.42	-	-	0.670	
598C/598	1	6	4.58	3.68	6	2.08	2.08	+	+	0.574	6	93.75	3.64	6	96.25	2.39	-	-	0.605		6	0.42	0.42	6	1.67	1.67	-	-	0.659	
1522C/1522	1	6	13.33	11.36	6	2.50	2.50	-	+	0.280	6	71.25	13.15	6	50.42	20.17	-	-	0.477		6	15.42	11.09	6	47.08	21.16	-	-	0.284	
Habitat Means			5.50	4.36		6.64	4.94		+			79.70	7.48		75.86	13.00		-				14.58	6.88		17.34	11.58		-		
Fisher's		Power	0.040		Power-50%		0.482	P-value		0.449 y	Power	0.224		Power-50%		0.962	P-value		0.603		Power	0.018		Power-50%		0.473	P-value		0.556	
Stouffer's		Power	0.037		Power-50%		0.649	P-value		0.258	Power	0.140		Power-50%		0.976	P-value		0.813		Power	0.014		Power-50%		0.563	P-value		0.586	
4825C/1424	2	5	3.50	2.45	5	11.50	5.16	-	-	0.119	5	44.50	18.53	5	58.50	17.71	-	-	0.493		5	52.00	19.74	5	30.00	17.66	-	+	0.325	
453C/453	2	5	6.00	4.85	6	20.00	9.42	-	-	0.241	5	47.50	7.58	6	75.00	9.22	-	-	0.060		5	45.50	11.74	6	5.00	2.66	-	+	0.016	
601C/601	2	6	10.42	5.68	4	4.38	1.20	-	+	0.866	6	70.00	11.44	4	54.38	17.15	-	+	0.453		6	19.58	12.61	4	41.25	17.21	-	-	0.310	
598C/598	2	5	18.50	11.74	5	4.00	1.50	-	+	0.183	5	70.50	13.59	5	78.00	13.10	-	-	0.691		5	11.00	8.61	5	18.00	13.91	-	-	0.739	
1522C/1522	2	6	12.08	5.10	6	2.08	1.36	-	+	0.026	6	35.42	12.46	6	19.17	14.70	-	+	0.457		6	50.00	16.58	6	78.75	15.83	-	-	0.284	
Habitat Means			10.10	5.98		8.40	3.74		+			53.58	12.72		57.02	14.38		-				35.62	13.84		34.62	13.46		-		
Fisher's		Power	0.336		Power-50%		0.848	P-value		0.114	Power	0.049		Power-50%		0.641	P-value		0.225		Power	0.097		Power-50%		0.517	P-value		0.441xy	
Stouffer's		Power	0.104		Power-50%		0.890	P-value		0.243	Power	0.018		Power-50%		0.728	P-value		0.142		Power	0.030		Power-50%		0.610	P-value		0.757	
4825C/1424	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	15.00	12.65	3	14.17	3.63	-	+	0.623		5	68.00	16.15	3	82.50	2.50	-	-	0.749	
453C/453	3	4	0.00	0.00	4	6.88	2.77	-	-	0.067	4	9.38	6.49	4	53.13	15.59	-	-	0.034		4	90.63	6.49	4	35.00	19.23	-	-	0.029	
601C/601	3	5	1.50	1.50	3	0.00	0.00	-	-	0.374	5	47.00	18.22	3	5.83	5.83	-	-	0.149		5	26.00	14.78	3	69.17	30.83	-	-	0.137	
598C/598	3	4	10.00	10.00	5	0.00	0.00	-	+	0.391	4	16.88	6.24	5	0.00	0.00	-	+	0.063		4	38.75	1.61	5	77.50	17.92	-	-	0.095	
1522C/1522	3	6	0.42	0.42	5	0.50	0.50	-	-	0.900	6	34.58	15.28	5	31.00	16.31	-	-	0.702		6	53.33	18.50	5	67.50	16.55	-	-	0.459	
Habitat Means			2.38	2.38		1.48	0.66		-			24.58	11.78		20.82	8.26		+				55.34	11.52		66.34	17.40		-		
Fisher's		Power	0.043		Power-50%		---	P-value		0.389 y	Power	---		Power-50%		---	P-value		0.084x		Power	---		Power-50%		---	P-value		0.089x	
Stouffer's		Power	0.005		Power-50%		---	P-value		0.450	Power	0.054		Power-50%		0.645	P-value		0.211		Power	0.072		Power-50%		0.914	P-value		0.248	

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.247. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. August 1993. Cleared May 1991. (Continued.)

		Annuals (A)									Ephemerals (AE)																	
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	5	1.00	1.00	-	-	0.374	6	0.00	0.00	5	1.00	1.00	-	-	0.374									
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
598C/598	1	6	1.25	1.25	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.26	0.26		0.20	0.20		-			0.00	0.00		0.20	0.20		-										
Fisher's		Power	---		Power-50%		---	P-value		0.630	Power	---		Power-50%		---	P-value		0.542	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.280	Power	---		Power-50%		---	P-value		0.451	Power	---		Power-50%		---	P-value		
4825C/1424	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000									
453C/453	2	5	1.00	1.00	6	0.00	0.00	-	+	0.374	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
601C/601	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000									
598C/598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000									
1522C/1522	2	6	2.50	2.50	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.70	0.70		0.00	0.00		+			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.363	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.255	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
4825C/1424	3	5	17.00	14.56	3	3.33	2.20	-	+	0.591	5	17.00	14.56	3	0.00	0.00	-	-	0.202									
453C/453	3	4	0.00	0.00	4	5.00	3.54	-	-	0.205	4	0.00	0.00	4	5.00	3.54	-	-	0.205									
601C/601	3	5	25.50	14.76	3	6.67	6.67	-	+	0.433	5	25.50	14.76	3	6.67	6.67	-	+	0.433									
598C/598	3	4	34.38	13.24	5	2.00	2.00	-	+	0.035	4	33.75	13.09	5	2.00	2.00	-	+	0.035									
1522C/1522	3	6	0.00	0.00	5	1.00	0.61	-	-	0.178	6	0.00	0.00	5	0.50	0.50	-	-	0.374									
Habitat Means			15.38	8.52		3.60	3.00		+			15.26	8.50		2.84	2.54		+										
Fisher's		Power	0.070		Power-50%		0.055	P-value		0.172	Power	---		Power-50%		---	P-value		0.090	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.012		Power-50%		0.105	P-value		0.173	Power	0.054		Power-50%		0.100	P-value		0.128	Power	---		Power-50%		---	P-value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.