

*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 V

APPENDIX C  
Parts 5 (continued) and 6

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Table C-5.248. Algal Percent Cover. Chlorophyta. 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.

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	1.00	1.00	-	-	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	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	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		0.20	0.20	-				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		0.542	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732				
Stouffer's	Power		---		Power-50%		---	P-value		0.451	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500				
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	5	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	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				
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	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	6	0.00	0.00	6	0.00	0.00	-	o	1.000				
Habitat Means			0.50	0.50		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		0.536	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	3	5	17.00	14.56	3	0.00	0.00	-	-	0.202	5	0.50	0.50	3	0.00	0.00	-	+	0.374	5	0.50	0.50	3	0.00	0.00	-	-	0.374				
453C/453	3	4	0.00	0.00	4	5.00	3.54	-	-	0.205	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				
601C/601	3	5	25.50	14.76	3	6.67	6.67	-	+	0.433	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				
598C/598	3	4	33.75	13.09	5	2.00	2.00	-	+	0.035	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				
1522C/1522	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				
Habitat Means			15.26	8.50		2.84	2.54	-	+			0.10	0.10		0.00	0.00	-	+			0.10	0.10		0.00	0.00	-	+					
Fisher's	Power		---		Power-50%		---	P-value		0.090	Power	---		Power-50%		---	P-value		0.542	Power	---		Power-50%		---	P-value		0.542				
Stouffer's	Power		0.049		Power-50%		0.100	P-value		0.128	Power	---		Power-50%		---	P-value		0.451	Power	---		Power-50%		---	P-value		0.451				

(a) Kozhennia, Monostroma, Ulva and Ulvaria.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.248. Page 1. December 15, 1994

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		o				0.00	0.00		0.00		o				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	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
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	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
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	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	2.50	2.50	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	+	0.363
Habitat Means			0.50	0.50		0.00	0.00	+				0.50	0.50		0.00	0.00	+				0.00	0.00		0.00	0.00	+		
Fisher's	Power		---		Power-50%		---	P-value	0.536	Power	---		Power-50%		---	P-value	0.536	Power	---		Power-50%		---	P-value	0.732			
Stouffer's	Power		---		Power-50%		---	P-value	0.425	Power	---		Power-50%		---	P-value	0.425	Power	---		Power-50%		---	P-value	0.500			
4825C/1424	3	5	16.50	14.65	3	0.00	0.00	-	+	0.217	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
453C/453	3	4	0.00	0.00	4	5.00	3.54	-	+	0.205	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
601C/601	3	5	25.50	14.76	3	6.67	6.67	-	+	0.433	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
598C/598	3	4	33.75	13.09	5	2.00	2.00	-	+	0.035	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
1522C/1522	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
Habitat Means			15.16	8.52		2.84	2.54	+				0.00	0.00		0.00	0.00	o				0.00	0.00		0.00		o		
Fisher's	Power		---		Power-50%		---	P-value	0.094	Power	---		Power-50%		---	P-value	0.732	Power	---		Power-50%		---	P-value	0.732			
Stouffer's	Power		0.045		Power-50%		0.103	P-value	0.129	Power	---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value	0.500			

Table C-5.248. Algal Percent Cover. Chlorophyta. Prince William Sound. Sheltered Rocky. August 1993. Cleared May 1991. (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	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
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	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
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	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1522C/1522	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	0.732		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	5	16.50	14.65	3	0.00	0.00	-	+	0.217	5	0.00	0.00	3	0.00	0.00	-	+	0.217	5	0.00	0.00	3	0.00	0.00	-	+	0.217
453C/453	3	4	0.00	0.00	4	5.00	3.54	-	-	0.205	4	0.00	0.00	4	0.00	0.00	-	-	0.205	4	0.00	0.00	4	0.00	0.00	-	-	0.205
601C/601	3	5	25.50	14.76	3	6.67	6.67	-	+	0.433	5	0.00	0.00	3	0.00	0.00	-	+	0.433	5	0.00	0.00	3	0.00	0.00	-	+	0.433
598C/598	3	4	33.75	13.09	5	2.00	2.00	-	+	0.035	4	0.00	0.00	5	0.00	0.00	-	+	0.035	4	0.00	0.00	5	0.00	0.00	-	+	0.035
1522C/1522	3	6	0.00	0.00	5	0.50	0.50	-	-	0.374	6	0.00	0.00	5	0.00	0.00	-	-	0.374	6	0.00	0.00	5	0.00	0.00	-	-	0.374
Habitat Means			15.16	9.52		2.84	2.54		+			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		+	
Fisher's	Power		---		Power-50%		---	P-value	0.094		Power	---		Power-50%		---	P-value	0.732		Power	---		Power-50%		---	P-value	0.732	
Stouffer's	Power		0.045		Power-50%		0.105	P-value	0.129		Power	---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---	P-value	0.500	

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.248, Page 3, December 15, 1994

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	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	0.00	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		0.20	0.20		-			0.00	0.00		0.20	0.20		-												
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	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	0.00	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	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	0.00	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	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											
453C/453	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											
601C/601	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											
598C/598	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											
1522C/1522	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											
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 &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.248, Page 4, December 15, 1994

Table C-5.249. Algal Percent Cover. Phaeophyta. 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.

Total Phaeophyta											Morphological Group: Bladed Browns										Total <i>Fucus gardneri</i> (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	16.25	7.38	5	3.50	3.50	-	+	0.106	6	16.25	7.38	5	3.50	3.50	-	-	0.106	6	16.25	7.38	5	3.50	3.50	-	+	0.106		
453C/453	1	6	35.00	14.33	6	14.58	12.15	-	+	0.211	6	35.00	14.33	6	14.58	12.15	-	-	0.211	6	35.00	14.33	6	14.58	12.15	-	+	0.211		
601C/601	1	6	1.25	0.85	6	15.42	15.42	-	-	0.519	6	1.25	0.85	6	15.42	15.42	-	-	0.519	6	1.25	0.85	6	15.42	15.42	-	-	0.519		
598C/598	1	6	0.42	0.42	6	1.67	1.67	-	-	0.659	6	0.42	0.42	6	1.67	1.67	-	-	0.659	6	0.42	0.42	6	1.67	1.67	-	-	0.659		
1522C/1522	1	6	15.42	11.09	6	46.67	21.01	-	-	0.288	6	15.42	11.09	6	46.67	21.01	-	-	0.288	6	15.42	11.09	6	46.67	21.01	-	-	0.288		
Habitat Means			13.68	6.82		16.38	10.76		-			13.68	6.82		16.38	10.76		-			13.68	6.82		16.38	10.76		-			
Fisher's																														
Stouffer's			Power	0.012		Power-50%	0.495	P-value	0.520			Power	0.011		Power-50%	0.487	P-value	0.520			Power	0.015		Power-50%	0.504	P-value	0.520			
			Power	0.006		Power-50%	0.649	P-value	0.570			Power	0.007		Power-50%	0.629	P-value	0.570			Power	0.011		Power-50%	0.638	P-value	0.570			
4825C/1424	2	5	52.00	19.74	5	25.00	13.44	-	+	0.215	5	52.00	19.74	5	25.00	13.44	-	+	0.215	5	52.00	19.74	5	25.00	13.44	-	+	0.215		
453C/453	2	5	43.50	11.28	6	5.00	2.66	-	+	0.018	5	42.50	11.07	6	5.00	2.66	-	-	0.018	5	42.50	11.07	6	5.00	2.66	-	+	0.018		
601C/601	2	6	19.58	12.61	4	40.63	17.33	-	-	0.320	6	19.58	12.61	4	40.63	17.33	-	-	0.320	6	19.58	12.61	4	40.63	17.33	-	-	0.320		
598C/598	2	5	11.00	8.61	5	18.00	13.91	-	-	0.739	5	11.00	8.61	5	18.00	13.91	-	-	0.739	5	11.00	8.61	5	18.00	13.91	-	-	0.739		
1522C/1522	2	6	49.17	16.63	6	72.08	16.49	-	-	0.390	6	49.17	16.63	6	72.08	16.49	-	-	0.390	6	49.17	16.63	6	72.08	16.49	-	-	0.390		
Habitat Means			35.06	13.76		32.14	12.76		-			34.86	13.72		32.14	12.76		-			34.86	13.72		32.14	12.76		-			
Fisher's																														
Stouffer's			Power	0.085		Power-50%	0.525	P-value	0.516 <sub>xy</sub>			Power	0.084		Power-50%	0.510	P-value	0.516 <sub>xy</sub>			Power	0.081		Power-50%	0.503	P-value	0.516 <sub>xy</sub>			
			Power	0.025		Power-50%	0.620	P-value	0.778			Power	0.026		Power-50%	0.623	P-value	0.775			Power	0.024		Power-50%	0.597	P-value	0.775			
4825C/1424	3	5	67.00	16.72	3	63.33	13.10	-	+	0.727	5	67.00	16.72	3	62.50	13.92	-	+	0.709	5	67.00	16.72	3	62.50	13.92	-	+	0.709		
453C/453	3	4	70.63	17.00	4	30.00	19.45	-	+	0.149	4	70.63	17.00	4	30.00	19.45	-	+	0.149	4	70.63	17.00	4	30.00	19.45	-	+	0.149		
601C/601	3	5	26.00	14.78	3	69.17	30.83	-	-	0.137	5	26.00	14.78	3	69.17	30.83	-	-	0.137	5	26.00	14.78	3	69.17	30.83	-	-	0.137		
598C/598	3	4	38.75	1.61	5	76.50	17.92	-	-	0.102	4	38.75	1.61	5	76.50	17.92	-	-	0.102	4	38.75	1.61	5	76.50	17.92	-	-	0.102		
1522C/1522	3	6	53.33	18.50	5	51.00	15.42	-	+	0.874	6	53.33	18.50	5	51.00	15.42	-	+	0.874	6	53.33	18.50	5	51.00	15.42	-	+	0.874		
Habitat Means			51.14	13.72		58.00	19.34		+			51.14	13.72		57.84	19.50		+			51.14	13.72		57.84	19.50		+			
Fisher's																														
Stouffer's			Power	0.070		Power-50%	0.792	P-value	0.521 <sub>y</sub>			Power	0.067		Power-50%	0.806	P-value	0.516 <sub>y</sub>			Power	0.060		Power-50%	0.756	P-value	0.516 <sub>y</sub>			
			Power	0.037		Power-50%	0.864	P-value	0.778			Power	0.038		Power-50%	0.875	P-value	0.777			Power	0.033		Power-50%	0.837	P-value	0.777			

x At least one site pair p-value < 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.249. Page 1. December 15, 1994

Adult <i>Fucus gardneri</i> (P) (> 2cm)											Juvenile <i>Fucus gardneri</i> (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										
4825C/1424	1	6	16.25	7.38	5	3.50	3.50	-	+	0.106	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
453C/453	1	6	35.00	14.33	6	14.58	12.15	-	+	0.211	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
601C/601	1	6	0.42	0.42	6	15.42	15.42	-	+	0.423	6	0.83	0.83	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	1.67	1.67	-	-	0.363	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
1522C/1522	1	6	15.42	11.09	6	46.67	21.01	-	-	0.288	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
Habitat Means			13.42	6.64		16.38	10.76		-			0.24	0.24		0.00	0.00		+			0.00	0.00		0.00	0.00		o		
Fisher's	Power		0.017		Power-50%	0.199	P-value	0.379	Power	---		Power-50%	---	P-value	0.359	Power	---		Power-50%	---	P-value	0.732							
Stouffer's	Power		0.014		Power-50%	0.333	P-value	0.411	Power	---		Power-50%	---	P-value	0.180	Power	---		Power-50%	---	P-value	0.500							
4825C/1424	2	5	44.50	16.59	5	25.00	13.44	-	-	0.293	5	7.50	7.50	5	0.00	0.00	-	+	0.374	5	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
453C/453	2	5	42.50	11.07	6	2.50	2.50	-	-	0.007	5	0.00	0.00	6	2.50	0.91	-	-	0.029	5	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
601C/601	2	6	19.58	12.61	4	40.63	17.33	-	-	0.320	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000
598C/598	2	5	11.00	8.61	5	18.00	13.91	-	-	0.739	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
1522C/1522	2	6	48.75	16.82	6	72.08	16.49	-	-	0.382	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
Habitat Means			33.28	13.14		31.64	22.72		-			1.58	1.58		0.50	0.18		+			0.00	0.00		0.00	0.00		o		
Fisher's	Power		0.087		Power-50%	0.513	P-value	0.505 <sub>xy</sub>	Power	0.000		Power-50%	---	P-value	0.479 <sub>x</sub>	Power	---		Power-50%	---	P-value	0.732							
Stouffer's	Power		0.031		Power-50%	0.630	P-value	0.820	Power	0.000		Power-50%	---	P-value	0.801	Power	---		Power-50%	---	P-value	0.500							
4825C/1424	3	5	64.00	18.65	3	62.50	13.92	-	+	0.817	5	3.00	3.00	3	0.00	0.00	-	+	0.374	5	0.00	0.00	3	0.00	0.00	0.00	-	o	1.000
453C/453	3	4	70.63	17.00	4	28.75	18.21	-	+	0.126	4	0.00	0.00	4	1.25	1.25	-	+	0.391	4	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000
601C/601	3	5	21.00	14.00	3	69.17	30.83	-	-	0.106	5	5.00	5.00	3	0.00	0.00	-	+	0.374	5	0.00	0.00	3	0.00	0.00	0.00	-	o	1.000
598C/598	3	4	38.75	1.61	5	76.50	17.92	-	-	0.102	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
1522C/1522	3	6	53.33	18.50	5	51.00	15.42	-	+	0.874	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
Habitat Means			49.54	13.96		57.60	19.24		+			1.60	1.60		0.26	0.26		+			0.00	0.00		0.00	0.00		o		
Fisher's	Power		0.052		Power-50%	0.724	P-value	0.514 <sub>y</sub>	Power	---		Power-50%	---	P-value	0.448	Power	---		Power-50%	---	P-value	0.732							
Stouffer's	Power		0.020		Power-50%	0.830	P-value	0.778 <sub>y</sub>	Power	---		Power-50%	---	P-value	0.550	Power	---		Power-50%	---	P-value	0.500							



Table C-5.249. Algal Percent Cover. Phaeophyta. Prince William Sound, Sheltered Rocky, August 1993. Cleared May 1991. (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	0.00	0.00		o		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	0.732	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	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		
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	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		
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	5	0.00	0.00	5	0.00	0.00	-	o	1.000		
1522C/1522	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	0.00	0.00		o		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	0.732	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	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		
453C/453	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		
601C/601	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		
598C/598	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		
1522C/1522	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		
Habitat Means			0.00	0.00	0.00	0.00		o			0.00	0.00	0.00	0.00	0.00	0.00		o		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	0.732	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.

Table C-5.249, Page 3, December 15, 1999

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	0.00	0.00		o		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	0.732	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	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		
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	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		
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	5	0.00	0.00	5	0.00	0.00	-	o	1.000		
1522C/1522	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	0.00	0.00		o		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	0.732	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	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		
453C/453	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		
601C/601	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		
598C/598	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		
1522C/1522	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		
Habitat Means			0.00	0.00	0.00	0.00		o			0.00	0.00	0.00	0.00	0.00	0.00		o		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	0.732	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.

Table C-5.249. Page 3, December 15, 1994

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	0.00		o			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	0.732	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	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		
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	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		
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	5	0.00	0.00	5	0.00	0.00	-	o	1.000		
1522C/1522	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	0.00		o			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	0.732	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	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		
453C/453	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		
601C/601	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		
598C/598	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		
1522C/1522	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		
Habitat Means			0.00	0.00	0.00	0.00		o				0.00	0.00	0.00	0.00	0.00		o			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	0.732	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-5.249. Page 4, December 15, 1994

Table C-5.249. Algal Percent Cover. Phaeophyta. Prince William Sound, Sheltered Rocky, August 1993. Cleared May 1991. (Continued.)

Morphological Group: Saccate Browns											Leathesia/Colpomenia (A) (a)											Soranthera ulvacea (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	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				
453C/453	2	5	1.00	1.00	6	0.00	0.00	-	+	0.374	5	0.50	0.50	6	0.00	0.00	-	+	0.374	5	0.50	0.50	6	0.00	0.00	-	+	0.374				
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	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	5	0.00	0.00	5	0.00	0.00	-	o	1.000				
1522C/1522	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			0.20	0.20		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	0.542	Power		---		Power-50%		---	P-value	0.542	Power		---		Power-50%		---	P-value	0.542					
Stouffer's	Power		---		Power-50%		---	P-value	0.319	Power		---		Power-50%		---	P-value	0.319	Power		---		Power-50%		---	P-value	0.319					
4825C/1424	3	5	0.00	0.00	3	0.83	0.83	-	-	0.423	5	0.00	0.00	3	0.00	0.00	-	-	0.423	5	0.00	0.00	3	0.83	0.83	-	-	0.423				
453C/453	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				
601C/601	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				
598C/598	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				
1522C/1522	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				
Habitat Means			0.00	0.00		0.16	0.16		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.16	0.16		-					
Fisher's	Power		---		Power-50%		---	P-value	0.565	Power		---		Power-50%		---	P-value	0.732	Power		---		Power-50%		---	P-value	0.565					
Stouffer's	Power		---		Power-50%		---	P-value	0.456	Power		---		Power-50%		---	P-value	0.500	Power		---		Power-50%		---	P-value	0.456					

(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-5.249. Page 5. December 15, 1994

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	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	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	0.500		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	0.00	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	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	0.00	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	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	0.500		Power	---		Power-50%	---	P-value						
4825C/1424	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																		
453C/453	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																		
601C/601	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																		
598C/598	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																		
1522C/1522	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																		
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	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	0.500		Power	---		Power-50%	---	P-value						

Table C-5.250. Algal Percent Cover, Rhodophyta, 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.

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	2.92	1.87	6	0.42	0.42	-	+	0.311	6	0.00	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	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	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	0.00	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			1.18	0.98		0.96	0.96		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			
Fisher's	Power		0.045		Power-50%		0.072	P-value		0.330	Power	---		Power-50%	---	P-value		0.732	Power	---		Power-50%	---	P-value		0.732				
Stouffer's	Power		0.023		Power-50%		0.142	P-value		0.127	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.500				
4825C/1424	2	5	0.00	0.00	5	5.00	5.00	-	-	0.374	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		
453C/453	2	5	3.00	2.00	6	0.00	0.00	-	+	0.187	5	0.00	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	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		
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	5	0.00	0.00	5	0.00	0.00	-	o	1.000		
1522C/1522	2	6	0.83	0.53	6	6.67	6.67	-	-	0.618	6	0.00	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			0.76	0.50		2.46	2.46		-			0.00	0.00		0.10	0.10		-			0.00	0.00		0.00	0.00		o			
Fisher's	Power		0.009		Power-50%		0.051	P-value		0.394	Power	---		Power-50%	---	P-value		0.542	Power	---		Power-50%	---	P-value		0.732				
Stouffer's	Power		0.006		Power-50%		0.053	P-value		0.608	Power	---		Power-50%	---	P-value		0.451	Power	---		Power-50%	---	P-value		0.500				
4825C/1424	3	5	1.00	1.00	3	22.50	10.00	-	-	0.006	5	1.00	1.00	3	6.67	5.46	-	-	0.217	5	0.00	0.00	3	0.00	0.00	-	o	1.000		
453C/453	3	4	20.00	16.11	4	5.00	5.00	-	+	0.431	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		
601C/601	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		
598C/598	3	4	0.63	0.63	5	1.00	1.00	-	-	0.933	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		
1522C/1522	3	6	0.00	0.00	5	17.00	12.83	-	-	0.155	6	0.00	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			4.32	3.54		9.10	5.76		-			0.32	0.32		1.44	1.20		-			0.00	0.00		0.00	0.00		o			
Fisher's	Power		---		Power-50%		---	P-value		0.028	Power	0.010		Power-50%	---	P-value		0.357	Power	---		Power-50%	---	P-value		0.732				
Stouffer's	Power		0.234		Power-50%		0.029	P-value		0.373	Power	0.004		Power-50%	---	P-value		0.342	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-5.250. Page 1, December 15, 1994

Gigartiniaceae 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	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	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	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	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	0.00	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	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	
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	5	0.00	0.00	5	0.00	0.00	-	o	1.000	
1522C/1522	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		0.10	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		0.542	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	
Stouffer's	Power		---		Power-50%		---	P-value		0.451	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	
4825C/1424	3	5	1.00	1.00	3	6.67	5.46	-	-	0.217	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	
453C/453	3	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	4	0.00	0.00	4	0.00	0.00	-	o	1.000	
601C/601	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	
598C/598	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	
1522C/1522	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	
Habitat Means			0.32	0.32		1.44	1.20		-			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		0.357	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	
Stouffer's	Power		0.005		Power-50%		---	P-value		0.342	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	

(a) Chondrus, Tridacna, 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-5.250. Page 2, December 15, 1994

Table C-5.250. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. Cleared May 1991. (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			o			0.00	0.00		0.00			o			0.00	0.00		0.00			o					
Fisher's			---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732				
Stouffer's			---		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	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				
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	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				
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	5	0.00	0.00	5	0.00	0.00	-	o	1.000				
1522C/1522	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			o			0.00	0.00		0.00			o			0.00	0.00		0.00			o					
Fisher's			---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732				
Stouffer's			---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500				
4825C/1424	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				
453C/453	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				
601C/601	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				
598C/598	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				
1522C/1522	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				
Habitat Means			0.00	0.00		0.00			o			0.00	0.00		0.00			o			0.00	0.00		0.00			o					
Fisher's			---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732				
Stouffer's			---		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 < 0.000 (in opposite direction of overall tests).

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C.5.250. Page 3, December 16, 1999

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	0.42	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	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	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	0.00	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			0.26	0.26		0.16	0.16		-			0.00	0.00		0.00			o			0.00	0.00		0.00			o					
Fisher's			---		Power-50%		---	P-value		0.441 y	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732				
Stouffer's			---		Power-50%		---	P-value		0.514	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500				
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	5	0.00	0.00	5	0.00	0.00	-	o	1.000				
453C/453	2	5	3.00	2.00	6	0.00	0.00	-	+	0.187	5	0.00	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	4	0.63	0.63	-	o	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				
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	5	0.00	0.00	5	0.00	0.00	-	o	1.000				
1522C/1522	2	6	0.83	0.53	6	6.67	6.67	-	-	0.618	6	0.00	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			0.76	0.50		1.46	1.46		-			0.00	0.00		0.00			o			0.00	0.00		0.00			o					
Fisher's			0.002		Power-50%		0.065	P-value		0.572	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732				
Stouffer's			0.000		Power-50%		0.065	P-value		0.655	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500				
4825C/1424	3	5	0.00	0.00	3	11.67	4.41	-	-	0.040	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				
453C/453	3	4	19.38	16.21	4	5.00	5.00	-	+	0.451	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				
601C/601	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				
598C/598	3	4	0.00	0.00	5	0.50	0.50	-	o	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				
1522C/1522	3	6	0.00	0.00	5	16.50	12.34	-	-	0.152	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				
Habitat Means			3.88	3.24		6.74	4.44		-			0.00	0.00		0.10	0.10		-			0.00	0.00		0.00			o					
Fisher's			---		Power-50%		---	P-value		0.051	Power	---		Power-50%		---	P-value		0.542	Power	---		Power-50%		---	P-value		0.732				
Stouffer's			0.255		Power-50%		0.000	P-value		0.191	Power	---		Power-50%		---	P-value		0.427	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-5.250. Page 3. December 15, 1994

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	0.42	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	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	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	0.00	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			0.26	0.26		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		---		Power-50%	---	P-value	0.441	y	Power	---		Power-50%	---	P-value	0.732	Power	---		Power-50%	---	P-value	0.732							
Stouffer's	Power		---		Power-50%	---	P-value	0.514		Power	---		Power-50%	---	P-value	0.500	Power	---		Power-50%	---	P-value	0.500							
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	5	0.00	0.00	5	0.00	0.00	-	o	1.000		
453C/453	2	5	3.00	2.00	6	0.00	0.00	-	+	0.187	5	0.00	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	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		
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	5	0.00	0.00	5	0.00	0.00	-	o	1.000		
1522C/1522	2	6	0.83	0.53	6	6.67	6.67	-	-	0.618	6	0.00	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			0.76	0.50		1.46	1.46		-			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%	0.065	P-value	0.572		Power	---		Power-50%	---	P-value	0.732	Power	---		Power-50%	---	P-value	0.732							
Stouffer's	Power		0.000		Power-50%	0.065	P-value	0.655		Power	---		Power-50%	---	P-value	0.500	Power	---		Power-50%	---	P-value	0.500							
4825C/1424	3	5	0.00	0.00	3	11.67	4.41	-	-	0.040	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		
453C/453	3	4	19.38	16.21	4	5.00	5.00	-	+	0.451	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		
601C/601	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		
598C/598	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		
1522C/1522	3	6	0.00	0.00	5	16.50	12.34	-	-	0.152	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		
Habitat Means			3.88	3.24		6.74	4.44		-			0.00	0.00		0.10	0.10		-			0.00	0.00		0.00	0.00		o			
Fisher's	Power		---		Power-50%	---	P-value	0.051		Power	---		Power-50%	---	P-value	0.542	Power	---		Power-50%	---	P-value	0.732							
Stouffer's	Power		0.255		Power-50%	0.000	P-value	0.191		Power	---		Power-50%	---	P-value	0.427	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-5.250. Page 4. December 15, 1994

Table C-5.250. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. Cleared May 1991. (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	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	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	0.42	0.42	-	o	0.363				
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	-	o	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	0.42	0.42	-	o	0.363				
Habitat Means			0.00	0.00		0.00	0.00		o			0.26	0.26		0.00	0.00		o			0.00	0.00		0.16	0.16		-					
Fisher's	Power	---			Power-50%	---	P-value	0.732	Power	---				Power-50%	---	P-value	0.536	Power	---			Power-50%	---	P-value	0.359							
Stouffer's	Power	---			Power-50%	---	P-value	0.500	Power	---				Power-50%	---	P-value	0.240	Power	---			Power-50%	---	P-value	0.251							
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	5	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	3.00	2.00	6	0.30	0.00	-	o	0.187				
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	6	0.00	0.00	4	0.63	0.63	-	o	0.391				
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	5	0.00	0.00	5	0.00	0.00	-	o	1.000				
1522C/1522	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	0.83	0.53	6	6.67	6.67	-	o	0.618				
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.76	0.50		1.46	1.46		-					
Fisher's	Power	---			Power-50%	---	P-value	0.732	Power	---				Power-50%	---	P-value	0.732	Power	---			Power-50%	---	P-value	0.572							
Stouffer's	Power	---			Power-50%	---	P-value	0.500	Power	---				Power-50%	---	P-value	0.500	Power	---			Power-50%	---	P-value	0.653							
4825C/1424	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	8.33	1.67	-	o	0.012				
453C/453	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	19.38	16.21	4	5.00	5.00	-	o	0.451				
601C/601	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				
598C/598	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	0.50	0.50	-	o	0.374				
1522C/1522	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	16.00	12.39	-	o	0.160				
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			3.88	3.24		5.96	3.92		-					
Fisher's	Power	---			Power-50%	---	P-value	0.732	Power	---				Power-50%	---	P-value	0.732	Power	---			Power-50%	---	P-value	0.025							
Stouffer's	Power	---			Power-50%	---	P-value	0.500	Power	---				Power-50%	---	P-value	0.500	Power	---			Power-50%	---	P-value	0.176							

† All Genera not separated.

\* 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

‡ Only one site pair.

Table C-5.25C, Page 5, December 15, 1998

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	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	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	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	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	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	0.00	-	o	1.000			
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	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	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	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	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	6	0.00	0.00	4	0.00	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	5	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000			
1522C/1522	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	0.00	-	o	1.000			
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	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	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	3.33	3.33	-	o	0.423	5	0.00	0.00	3	0.00	0.00	0.00	-	o	1.000			
453C/453	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	0.00	-	o	1.000			
601C/601	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	0.00	-	o	1.000			
598C/598	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	0.63	0.63	5	0.00	0.00	0.00	-	o	0.391			
1522C/1522	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	0.00	-	o	1.000			
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.66	0.66		-			0.12	0.12		0.00	0.00		+					
Fisher's	Power	---			Power-50%	---	P-value	0.732	Power	---				Power-50%	---	P-value	0.565	Power	---			Power-50%	---	P-value	0.550							
Stouffer's	Power	---			Power-50%	---	P-value	0.500	Power	---				Power-50%	---	P-value	0.456	Power	---			Power-50%	---	P-value	0.253							

(a) Genera not separated.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.250. Page 5, December 15, 1994

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	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	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				
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	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				
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	5	0.00	0.00	5	0.00	0.00	-	o	1.000				
1522C/1522	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	0.732	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	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	3.33	3.33	-	o	0.423	5	0.00	0.00	3	0.00	0.00	-	o	1.000				
453C/453	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				
601C/601	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				
598C/598	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	0.63	0.63	5	0.00	0.00	-	o	0.391				
1522C/1522	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				
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.66	0.66		-			0.12	0.12		0.00	0.00		+					
Fisher's	Power	---			Power-50%	---	P-value	0.732	Power	---			Power-50%	---	P-value	0.565	Power	---			Power-50%	---	P-value	0.550								
Stouffer's	Power	---			Power-50%	---	P-value	0.500	Power	---			Power-50%	---	P-value	0.456	Power	---			Power-50%	---	P-value	0.253								

(b) Genera not separated.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.250. Page 6, December 15, 1994

Table C-5.250. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. Cleared May 1991. (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				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	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
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	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
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	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1522C/1522	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				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	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	2.50	2.50	-	-	0.423
453C/453	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
601C/601	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
598C/598	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.63	0.63	5	0.00	0.00	-	o	0.391	4	0.00	0.00	5	0.00	0.00	-	o	1.000
1522C/1522	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
Habitat Means			0.00	0.00		0.00	0.00		o			0.12	0.12		0.00		0.00		-		0.00	0.00		0.50	0.50	-	-	-
Fisher's	Power		---		Power-50%	---	P-value		0.732	Power	---		Power-50%	---	P-value		0.550	Power	---		Power-50%	---	P-value		0.565			
Stouffer's	Power		---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.253	Power	---		Power-50%	---	P-value		0.456			

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

Table C-5.250. Page 7. December 15, 1994

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	4.00	4.00	-	-	0.374	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000	
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	2.92	1.87	6	0.00	0.00	-	+	0.176	6	0.00	0.00	6	0.00	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	1.67	6	0.00	0.00	-	-	0.363	6	0.00	0.00	6	0.00	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	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	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.92	0.72		0.80	0.80		-			0.00	0.00		0.00	0.00	0.00		o		
Fisher's	Power		---		Power-50%	---	P-value		0.732	Power	0.014		Power-50%	0.015	P-value		0.323	Power	---		Power-50%	---	P-value		0.732					
Stouffer's	Power		---		Power-50%	---	P-value		0.500	Power	0.005		Power-50%	0.012	P-value		0.211	Power	---		Power-50%	---	P-value		0.500					
4825C/1424	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	4.50	4.50	-	-	0.374	5	0.00	0.00	5	0.00	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	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	6	0.00	0.00	4	0.00	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	5	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000	
1522C/1522	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	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.90	0.90		-			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		0.451	Power	---		Power-50%	---	P-value		0.500					
4825C/1424	3	5	0.00	0.00	3	2.50	2.50	-	-	0.423	5	0.00	0.00	3	1.67	1.67	-	-	0.423	5	0.00	0.00	3	1.67	1.67	-	-	0.423		
453C/453	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		
601C/601	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		
598C/598	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		
1522C/1522	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		
Habitat Means			0.00	0.00		0.50	0.50		-			0.00	0.00		0.44	0.44		-			0.00	0.00		0.34	0.34		-			
Fisher's	Power		---		Power-50%	---	P-value		0.565	Power	---		Power-50%	---	P-value		0.388	Power	---		Power-50%	---	P-value		0.565					
Stouffer's	Power		---		Power-50%	---	P-value		0.456	Power	---		Power-50%	---	P-value		0.384	Power	---		Power-50%	---	P-value		0.456					

(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-5.250. Page 8. December 15, 1994

Table C-5.250. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. Cleared May 1991. (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	2.92	1.87	6	0.00	0.00	-	-	0.176	6	0.00	0.00	6	0.00	0.00	-	o	1.000										
601C/601	1	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										
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	0.72		0.80	0.80					0.00	0.00		0.00	0.00		o											
Fisher's	Power		0.012		Power-50%	0.017	P-value	0.323			Power	---		Power-50%	---	P-value	0.732			Power	---		Power-50%	---	P-value				
Stouffer's	Power		0.006		Power-50%	0.013	P-value	0.211			Power	---		Power-50%	---	P-value	0.500			Power	---		Power-50%	---	P-value				
4825C/1424	2	5	0.00	0.00	5	4.50	4.50	-	-	0.374	5	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	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	0.00	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		0.90	0.90		-			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	0.451			Power	---		Power-50%	---	P-value	0.500			Power	---		Power-50%	---	P-value				
4825C/1424	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										
453C/453	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										
601C/601	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										
598C/598	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										
1522C/1522	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										
Habitat Means			0.00	0.00		0.10	0.10		-			0.00	0.00		0.00	0.00		o											
Fisher's	Power		---		Power-50%	---	P-value	0.542			Power	---		Power-50%	---	P-value	0.732			Power	---		Power-50%	---	P-value				
Stouffer's	Power		---		Power-50%	---	P-value	0.427			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-5.251. Algal Percent Cover, Invertebrates, 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.

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	2.08	1.36	5	21.00	15.82	-	-	0.217	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		
453C/453	1	6	1.67	1.67	6	1.25	1.25	-	+	0.919	6	0.00	0.00	6	0.00	0.00	-	o	1.000			6	2.50	2.50	6	2.08	1.64	-	+	0.876		
601C/601	1	6	1.67	0.83	6	0.83	0.53	-	+	0.498	6	0.83	0.83	6	0.00	0.00	-	o	0.363			6	0.00	0.00	6	2.08	1.64	-	+	0.204		
598C/598	1	6	4.58	3.68	6	0.42	0.42	-	+	0.311	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	1	6	12.08	10.11	6	2.08	2.08	-	+	0.257	6	0.00	0.00	6	0.00	0.00	-	o	1.000			6	1.25	1.25	6	0.42	0.42	-	+	0.718		
Habitat Means			4.44	3.54		5.12	4.02					0.16	0.16		0.00	0.00							0.84	0.84		1.26	1.06		+			
Fisher's	Power		0.114		Power-50%		0.559	P-value		0.259	Power	---		Power-50%		---	P-value		0.536			Power	0.001		Power-50%		---	P-value		0.655		
Stouffer's	Power		0.100		Power-50%		0.736	P-value		0.144	Power	---		Power-50%		---	P-value		0.417			Power	0.000		Power-50%		---	P-value		0.763		
4825C/1424	2	5	3.50	2.45	5	11.00	5.40	-	-	0.232	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	5.00	5.00	6	14.58	5.34	-	-	0.186	5	0.00	0.00	6	0.00	0.00	-	o	1.000			5	1.00	1.00	6	5.42	4.93	-	+	0.506		
601C/601	2	6	4.17	1.90	4	1.25	0.72	-	+	0.478	6	0.00	0.00	4	0.63	0.63	-	o	0.391			6	6.25	4.07	4	2.50	1.02	-	+	0.920		
598C/598	2	5	12.50	8.22	5	0.50	0.50	-	+	0.070	5	0.00	0.00	5	0.00	0.00	-	o	1.000			5	6.00	3.76	5	3.50	1.70	-	+	0.739		
1522C/1522	2	6	7.08	5.72	6	1.25	1.25	-	+	0.384	6	0.00	0.00	6	0.00	0.00	-	o	1.000			6	5.00	1.58	6	0.83	0.83	-	+	0.025		
Habitat Means			6.46	4.66		5.74	2.64		+			0.00	0.00		0.12	0.12		-					3.66	2.10		2.44	1.68		+			
Fisher's	Power		0.233		Power-50%		0.572	P-value		0.207	Power	---		Power-50%		---	P-value		0.550			Power	0.123		Power-50%		0.426	P-value		0.160		
Stouffer's	Power		0.101		Power-50%		0.743	P-value		0.188	Power	---		Power-50%		---	P-value		0.421			Power	0.113		Power-50%		0.583	P-value		0.346		
4825C/1424	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		
453C/453	3	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	5.63	3.29	-	+	0.183		
601C/601	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	0.50	0.50	3	0.00	0.00	-	+	0.374		
598C/598	3	4	5.62	5.63	5	0.00	0.00	-	+	0.391	4	0.00	0.00	5	0.00	0.00	-	o	1.000			4	4.37	4.37	5	0.00	0.00	-	+	0.391		
1522C/1522	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	0.42	0.42	5	0.00	0.00	-	+	0.363		
Habitat Means			1.32	1.32		0.36	0.36		+			0.00	0.00		0.00	0.00		o					1.06	1.06		1.12	0.66		+			
Fisher's	Power		---		Power-50%		---	P-value		0.546	Power	---		Power-50%		---	P-value		0.732			Power	0.013		Power-50%		---	P-value		0.312		
Stouffer's	Power		---		Power-50%		---	P-value		0.408	Power	---		Power-50%		---	P-value		0.500			Power	0.008		Power-50%		---	P-value		0.362		

x At least one site pair p-value < 0.100 in 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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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	0.00	-	o	1.000	6	0.00	0.00	5	0.00	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	0.42	-	o	0.363	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.42	0.42	6	0.42	0.42	0.42	-	o	1.000	6	0.00	0.00	6	0.00	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	0.00	-	o	1.000	6	0.00	0.00	6	0.00	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	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.10	0.10		-			0.08	0.08		0.16	0.16		-				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		0.536			Power	---		Power-50%		---	P-value		0.732
Stouffer's	Power		---		Power-50%		---	P-value		0.451	Power	---		Power-50%		---	P-value		0.315			Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	5	0.00	0.00	5	0.50	0.50	-	-	0.374	5	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	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	0.00	-	o	1.000	5	0.00	0.00	6	0.00	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	0.00	-	o	1.000	6	0.00	0.00	4	0.00	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	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	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	0.00		o			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		0.732
Stouffer's	Power		---		Power-50%		---	P-value		0.451	Power	---		Power-50%		---	P-value		0.500			Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	0.00	-	o	1.000
453C/453	3	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000
601C/601	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	0.00	-	o	1.000
598C/598	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00	0.00		o			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		0.732			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





Table C-5.252. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. August 1993. Cleared May 1991. (Continued.)

Site Pair	Mvd	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
4825C/1424	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	81.25	7.15	5	70.00	15.55	-	+	0.745									
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	57.92	12.19	6	81.25	11.99	-	-	0.123									
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	94.17	1.24	6	81.25	14.81	-	+	0.552									
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	93.75	3.64	6	96.25	2.39	-	-	0.605									
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	71.25	13.15	6	50.42	20.17	-	+	0.477									
Habitat Means			0.00	0.00		0.00	0.00		o			79.70	7.48		75.86	13.00												
Fisher's	Power		---		Power-50%		---	P-value	0.732	Power	0.218		Power-50%	0.959	P-value	0.603	Power	---		Power-50%		---	P-value					
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power	0.148		Power-50%	0.979	P-value	0.813	Power	---		Power-50%		---	P-value					
4825C/1424	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	44.50	18.53	5	58.50	17.71	-	-	0.493									
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	47.50	7.58	6	75.00	9.22	-	-	0.060									
601C/601	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	70.00	11.44	4	54.38	17.15	-	+	0.453									
598C/598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	70.50	13.59	5	78.00	13.10	-	-	0.691									
1522C/1522	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	35.42	12.46	6	19.17	14.70	-	+	0.457									
Habitat Means			0.00	0.00		0.00	0.00		o			53.58	12.72		57.02	14.38												
Fisher's	Power		---		Power-50%		---	P-value	0.732	Power	0.049		Power-50%	0.617	P-value	0.225	Power	---		Power-50%		---	P-value					
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power	0.016		Power-50%	0.701	P-value	0.142	Power	---		Power-50%		---	P-value					
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									
453C/453	3	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	9.38	6.49	4	53.13	15.59	-	-	0.034									
601C/601	3	5	0.00	0.00	3	18.33	18.33	-	~	0.423	5	47.00	18.22	3	24.17	24.17	-	-	0.374									
598C/598	3	4	0.00	0.00	5	20.50	18.10	-	~	0.267	4	16.88	6.24	5	20.50	18.10	-	-	0.886									
1522C/1522	3	6	11.67	11.67	5	0.00	0.00	-	+	0.363	6	46.25	18.66	5	31.00	16.31	-	-	0.445									
Habitat Means			2.34	2.34		7.76	7.28		~			26.92	12.46		28.60	15.56												
Fisher's	Power		0.000		Power-50%		---	P-value	0.414	Power	0.051		Power-50%	0.495	P-value	0.449 <sub>xy</sub>	Power	---		Power-50%		---	P-value					
Stouffer's	Power		0.000		Power-50%		---	P-value	0.195	Power	0.018		Power-50%	0.632	P-value	0.789	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-5.252, Page 3, November 15, 1994

Table C-5.253. Algal Percent Cover, Totals and Seasonal Groups, Prince William Sound, Coarse Textured, July 1991, Cleared September 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	Algal Diversity Index (a)									Algal Taxa Richness (b)									Total Algae									
	Mvd	N	C	SE	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	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.33	0.33	-	---	---	0	--	--	3	2.50	2.50	-	---	---
1598C/1598	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
846C/846	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
1650C/1650	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
Habitat Means			--	--		0.00	0.00				--	--	--		0.33	0.33				--	--	--		2.50	2.50			
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	---	---
506C/506	2	0	--	--	3	0.09	0.09	-	---	---	0	--	--	3	1.33	0.33	-	---	---	0	--	--	3	4.17	1.67	-	---	---
1598C/1598	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
846C/846	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
1650C/1650	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
Habitat Means			--	--		0.09	0.09				--	--	--		1.33	0.33				--	--	--		4.20	1.70			
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	---	---
506C/506	3	0	--	--	2	0.07	0.07	-	---	---	0	--	--	2	2.00	1.00	-	---	---	0	--	--	2	35.00	30.00	-	---	---
1598C/1598	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
846C/846	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
1650C/1650	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
Habitat Means			--	--		0.07	0.07				--	--	--		2.00	1.00				--	--	--		35.00	30.00			
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 &lt; 0.100 in 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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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	0	--	--	3	0.00	0.00	-	---	---	0	---	--	3	97.50	2.50	-	---	---	0	--	--	3	0.00	0.00	-	---	---
1598C/1598	1	0	--	--	0	--	--	-	---	---	0	---	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
846C/846	1	0	--	--	0	--	--	-	---	---	0	---	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
1650C/1650	1	0	--	--	0	--	--	-	---	---	0	---	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
Habitat Means			--	--		0.00	0.00					--	--		97.50	2.50					--	--		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	---	---
506C/506	2	0	--	--	3	2.50	1.44	-	---	---	0	--	--	3	93.33	2.20	-	---	---	0	--	--	3	1.67	1.67	-	---	---
1598C/1598	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
846C/846	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
1650C/1650	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
Habitat Means			--	--		2.50	1.40					--	--		93.30	2.20					--	--		1.70	1.70			
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	---	---
506C/506	3	0	--	--	2	11.25	6.25	-	---	---	0	--	--	2	53.75	23.75	-	---	---	0	--	--	2	30.00	30.00	-	---	---
1598C/1598	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
846C/846	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
1650C/1650	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
Habitat Means			--	--		11.30	6.30					--	--		53.80	23.80					--	--		30.00	30.00			
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 &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.253, Page 2, December 15, 1994

Table C-5.253. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Coarse Textured. July 1991. Cleared September 1989. (Continued.)

Annals (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	0	--	--	3	2.50	2.50	-	---	---	0	--	--	3	0.00	0.00	-	---	---	---	---	---	---	---	---	---	---	---	---
1598C/1598	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	---	---	---	---	---	---	---	---	---
846C/846	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	---	---	---	---	---	---	---	---	---
1650C/1650	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	---	---	---	---	---	---	---	---	---
Habitat Means			--	--		2.50	2.50					--	--		0.00	0.00													
Fisher's	Power		---		Power-50%	---	P-value	---	Power	---	Power	---		Power-50%	---	P-value	---	Power	---	Power	---		Power-50%	---	P-value	---	P-value		
Stouffer's	Power		---		Power-50%	---	P-value	---	Power	---	Power	---		Power-50%	---	P-value	---	Power	---	Power	---		Power-50%	---	P-value	---	P-value		
506C/506	2	0	--	--	3	2.50	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	---	---	---	---	---	---	---	---	---	---
1598C/1598	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	---	---	---	---	---	---	---	---	---
846C/846	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	---	---	---	---	---	---	---	---	---
1650C/1650	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	---	---	---	---	---	---	---	---	---
Habitat Means			--	--		2.50	0.00					--	--		0.00	0.00													
Fisher's	Power		---		Power-50%	---	P-value	---	Power	---	Power	---		Power-50%	---	P-value	---	Power	---	Power	---		Power-50%	---	P-value	---	P-value		
Stouffer's	Power		---		Power-50%	---	P-value	---	Power	---	Power	---		Power-50%	---	P-value	---	Power	---	Power	---		Power-50%	---	P-value	---	P-value		
506C/506	3	0	--	--	2	5.00	0.00	-	---	---	0	--	--	2	1.25	1.25	-	---	---	---	---	---	---	---	---	---	---	---	---
1598C/1598	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	---	---	---	---	---	---	---	---	---
846C/846	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	---	---	---	---	---	---	---	---	---
1650C/1650	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	---	---	---	---	---	---	---	---	---
Habitat Means			--	--		5.00	0.00					--	--		1.30	1.30													
Fisher's	Power		---		Power-50%	---	P-value	---	Power	---	Power	---		Power-50%	---	P-value	---	Power	---	Power	---		Power-50%	---	P-value	---	P-value		
Stouffer's	Power		---		Power-50%	---	P-value	---	Power	---	Power	---		Power-50%	---	P-value	---	Power	---	Power	---		Power-50%	---	P-value	---	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-5.253. Page 3. December 15, 1994

Table C-5.254. Algal Percent Cover. Chlorophyta. Prince William Sound. Coarse Textured. July 1991. Cleared September 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 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	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---				
1598C/1598	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---				
846C/846	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---				
1650C/1650	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	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						
506C/506	2	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---				
1598C/1598	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---				
846C/846	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---				
1650C/1650	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	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						
506C/506	3	0	--	--	2	1.25	1.25	-	---	---	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---				
1598C/1598	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---				
846C/846	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---				
1650C/1650	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---				
Habitat Means			--	--		1.30	1.30					--	--		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						

(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.

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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	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---
1598C/1598	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
846C/846	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
1650C/1650	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
Habitat Means	--	--	--	--	0.00	0.00	--	--	--	--	--	--	--	0.00	0.00	--	--	--	--	--	--	--	--	0.00	0.00	--	--	--
Fisher's	Power	---	---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---
Stouffer's	Power	---	---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---
506C/506	2	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---
1598C/1598	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
846C/846	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
1650C/1650	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
Habitat Means	--	--	--	--	0.00	0.00	--	--	--	--	--	--	--	0.00	0.00	--	--	--	--	--	--	--	--	0.00	0.00	--	--	--
Fisher's	Power	---	---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---
Stouffer's	Power	---	---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---
506C/506	3	0	--	--	2	1.25	1.25	-	---	---	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---
1598C/1598	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
846C/846	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
1650C/1650	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
Habitat Means	--	--	--	--	1.30	1.30	--	--	--	--	--	--	--	0.00	0.00	--	--	--	--	--	--	--	--	0.00	0.00	--	--	--
Fisher's	Power	---	---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---
Stouffer's	Power	---	---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	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-5.254. Page 2. December 15, 1994

Table C-5.254. Algal Percent Cover. Chlorophyta. Prince William Sound. Coarse Textured. July 1991. Cleared September 1989. (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	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---			
846C/846	1	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---			
1650C/1650	1	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	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		---	Power-50%		---	P-value	---		
Stouffer's	Power		---		Power-50%		---		P-value	---	Power		---	Power-50%		---		P-value	---	Power		---	Power		---	Power-50%		---	P-value	---		
506C/506	2	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.00	0.00	--	--	---	---			
1598C/1598	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---			
846C/846	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---			
1650C/1650	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	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		---	Power-50%		---	P-value	---		
Stouffer's	Power		---		Power-50%		---		P-value	---	Power		---	Power-50%		---		P-value	---	Power		---	Power		---	Power-50%		---	P-value	---		
506C/506	3	0	--	--	2	1.25	1.25	--	--	---	0	--	--	2	0.00	0.00	--	--	---	0	--	--	2	0.00	0.00	--	--	---	---			
1598C/1598	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---			
846C/846	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---			
1650C/1650	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---			
Habitat Means			--	--	1.30		1.30				--	--		0.00		0.00						--	--	0.00		0.00						
Fisher's	Power		---		Power-50%		---		P-value	---	Power		---	Power-50%		---		P-value	---	Power		---	Power		---	Power-50%		---	P-value	---		
Stouffer's	Power		---		Power-50%		---		P-value	---	Power		---	Power-50%		---		P-value	---	Power		---	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-5.254. Page 3. December 15, 1994

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	0	--	--	3	0.00	0.00	-		---																						
1598C/1598	1	0	--	--	0	--	--	-		---																						
846C/846	1	0	--	--	0	--	--	-		---																						
1650C/1650	1	0	--	--	0	--	--	-		---																						
Habitat Means			--	--		0.00	0.00																									
Fisher's	Power		---		Power-50%		---		P-value	---	Power		---	Power-50%		---		P-value	---	Power		---	Power		---	Power-50%		---	P-value			
Stouffer's	Power		---		Power-50%		---		P-value	---	Power		---	Power-50%		---		P-value	---	Power		---	Power		---	Power-50%		---	P-value			
506C/506	2	0	--	--	3	0.00	0.00	-		---																						
1598C/1598	2	0	--	--	0	--	--	-		---																						
846C/846	2	0	--	--	0	--	--	-		---																						
1650C/1650	2	0	--	--	0	--	--	-		---																						
Habitat Means			--	--		0.00	0.00																									
Fisher's	Power		---		Power-50%		---		P-value	---	Power		---	Power-50%		---		P-value	---	Power		---	Power		---	Power-50%		---	P-value			
Stouffer's	Power		---		Power-50%		---		P-value	---	Power		---	Power-50%		---		P-value	---	Power		---	Power		---	Power-50%		---	P-value			
506C/506	3	0	--	--	2	0.00	0.00	-		---																						
1598C/1598	3	0	--	--	0	--	--	-		---																						
846C/846	3	0	--	--	0	--	--	-		---																						
1650C/1650	3	0	--	--	0	--	--	-		---																						
Habitat Means			--	--		0.00	0.00																									
Fisher's	Power		---		Power-50%		---		P-value	---	Power		---	Power-50%		---		P-value	---	Power		---	Power		---	Power-50%		---	P-value			
Stouffer's	Power		---		Power-50%		---		P-value	---	Power		---	Power-50%		---		P-value	---	Power		---	Power		---	Power-50%		---	P-value			

(a) Canera 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-5.254. Page 4. December 15, 1994

Table C-5.255. Algal Percent Cover. Phaeophyta. Prince William Sound. Coarse Textured. July 1991. Cleared September 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										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	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	
1598C/1598	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
846C/846	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
1650C/1650	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	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	---		Power	---		
Stouffer's		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		
506C/506	2	0	--	--	3	1.67	1.67	-	---	---	0	--	--	3	1.67	1.67	-	---	---	0	--	--	3	0.00	0.00	-	---	---	
1598C/1598	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
846C/846	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
1650C/1650	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
Habitat Means			--	--		1.70	1.70					--	--		1.70	1.70					--	--		0.00	0.00				
Fisher's		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		
Stouffer's		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		
506C/506	3	0	--	--	2	31.25	31.25	-	---	---	0	--	--	2	30.00	30.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	
1598C/1598	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
846C/846	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
1650C/1650	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
Habitat Means			--	--		31.30	31.30					--	--		30.00	30.00					--	--		0.00	0.00				
Fisher's		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		
Stouffer's		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		

x At least one site pair p-value < 0.100 in 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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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	
1598C/1598	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
846C/846	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
1650C/1650	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	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	---	---	
506C/506	2	0	--	--	3	1.67	1.67	-	---	---	0	--	--	3	1.67	1.67	-	---	---	0	--	--	3	0.00	0.00	-	---	---	
1598C/1598	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
846C/846	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
1650C/1650	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
Habitat Means			--	--		1.70	1.70					--	--		1.70	1.70					--	--		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	---	---	
506C/506	3	0	--	--	2	30.00	30.00	-	---	---	0	--	--	2	30.00	30.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	
1598C/1598	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
846C/846	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
1650C/1650	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
Habitat Means			--	--		30.00	30.00					--	--		30.00	30.00					--	--		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-5.255. Page 2. December 15, 1994

Table C-5.255. Algal Percent Cover. Phaeophyta. Prince William Sound. Coarse Textured. July 1991. Cleared September 1989. (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	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	
1598C/1598	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
846C/846	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
1650C/1650	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	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	---			
506C/506	2	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	
1598C/1598	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
846C/846	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
1650C/1650	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	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	---			
506C/506	3	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	1.25	1.25	-	---	---	0	--	--	2	0.00	0.00	-	---	---	
1598C/1598	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
846C/846	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
1650C/1650	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
Habitat Means			--	--		0.00	0.00					--	--		1.30	1.30					--	--		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 5.255, Page 1, December 15, 1994

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	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	---
1598C/1598	1	0	--	--	0	--	--	--	---	---	0	--	--	0	--	--	--	--	---	---	0	--	--	0	--	--	--	--	---
846C/846	1	0	--	--	0	--	--	--	---	---	0	--	--	0	--	--	--	--	---	---	0	--	--	0	--	--	--	--	---
1650C/1650	1	0	--	--	0	--	--	--	---	---	0	--	--	0	--	--	--	--	---	---	0	--	--	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	---			---
506C/506	2	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	---
1598C/1598	2	0	--	--	0	--	--	--	---	---	0	--	--	0	--	--	--	--	---	---	0	--	--	0	--	--	--	--	---
846C/846	2	0	--	--	0	--	--	--	---	---	0	--	--	0	--	--	--	--	---	---	0	--	--	0	--	--	--	--	---
1650C/1650	2	0	--	--	0	--	--	--	---	---	0	--	--	0	--	--	--	--	---	---	0	--	--	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	---			---
506C/506	3	0	--	--	2	1.25	1.25	-	---	---	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	---
1598C/1598	3	0	--	--	0	--	--	--	---	---	0	--	--	0	--	--	--	--	---	---	0	--	--	0	--	--	--	--	---
846C/846	3	0	--	--	0	--	--	--	---	---	0	--	--	0	--	--	--	--	---	---	0	--	--	0	--	--	--	--	---
1650C/1650	3	0	--	--	0	--	--	--	---	---	0	--	--	0	--	--	--	--	---	---	0	--	--	0	--	--	--	--	---
Habitat Means			--	--		1.30	1.30				--	--	--		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	---			---

(a) Genera not separated.  
(b) Elachista, Scytocarpus 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 5.255, Page 4, December 15, 1994



Table C-5.256. Algal Percent Cover. Rhodophyta. Prince William Sound. Coarse Textured. July 1991. Cleared September 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									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	0	--	--	3	2.50	2.50	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---
1598C/1598	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
846C/846	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
1650C/1650	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
Habitat Means			--	--		2.50	2.50					--	--		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	---	---
506C/506	2	0	--	--	3	2.50	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---
1598C/1598	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
846C/846	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
1650C/1650	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
Habitat Means			--	--		2.50	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	---	---
506C/506	3	0	--	--	2	2.50	2.50	-	---	---	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---
1598C/1598	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
846C/846	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
1650C/1650	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
Habitat Means			--	--		2.50	2.50					--	--		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.

Table C-5.256, Page 1, December 15, 1994

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	0	--	--	3	2.50	2.50	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	2.50	2.50	-	---	---				
1598C/1598	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---				
846C/846	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---				
1650C/1650	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---				
Habitat Means			--	--		2.50	2.50					--	--		0.00	0.00					--	--			2.50	2.50						
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	---	---				
506C/506	2	0	--	--	3	2.50	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	2.50	0.00	-	---	---				
1598C/1598	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---				
846C/846	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---				
1650C/1650	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---				
Habitat Means			--	--		2.50	0.00					--	--		0.00	0.00					--	--			2.50	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	---	---				
506C/506	3	0	--	--	2	2.50	2.50	-	---	---	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	2.50	2.50	-	---	---				
1598C/1598	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---				
846C/846	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---				
1650C/1650	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---				
Habitat Means			--	--		2.50	2.50					--	--		0.00	0.00					--	--			2.50	2.50						
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-5.256, Page 2, December 15, 1994

Table C-5.256. Algal Percent Cover, Rhodophyta, Prince William Sound, Coarse Textured, July 1991, Cleared September 1989. (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	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	
1598C/1598	1	0	--	--	0	--	--	--	---	---	0	--	--	0	--	--	--	-	---	---	0	--	--	0	--	--	--	-	---
846C/846	1	0	--	--	0	--	--	--	---	---	0	--	--	0	--	--	--	-	---	---	0	--	--	0	--	--	--	-	---
1650C/1650	1	0	--	--	0	--	--	--	---	---	0	--	--	0	--	--	--	-	---	---	0	--	--	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	---	---	
506C/506	2	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	
1598C/1598	2	0	--	--	0	--	--	--	---	---	0	--	--	0	--	--	--	-	---	---	0	--	--	0	--	--	--	-	---
846C/846	2	0	--	--	0	--	--	--	---	---	0	--	--	0	--	--	--	-	---	---	0	--	--	0	--	--	--	-	---
1650C/1650	2	0	--	--	0	--	--	--	---	---	0	--	--	0	--	--	--	-	---	---	0	--	--	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	---	---	
506C/506	3	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	
1598C/1598	3	0	--	--	0	--	--	--	---	---	0	--	--	0	--	--	--	-	---	---	0	--	--	0	--	--	--	-	---
846C/846	3	0	--	--	0	--	--	--	---	---	0	--	--	0	--	--	--	-	---	---	0	--	--	0	--	--	--	-	---
1650C/1650	3	0	--	--	0	--	--	--	---	---	0	--	--	0	--	--	--	-	---	---	0	--	--	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	---	---	

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

Table C 5.256, Page 3, December 15, 1994

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	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---		
1598C/1598	1	0	--	--	0	--	--	--	---	---	0	--	--	0	--	--	--	---	---	0	--	--	0	--	--	--	---	---		
846C/846	1	0	--	--	0	--	--	--	---	---	0	--	--	0	--	--	--	---	---	0	--	--	0	--	--	--	---	---		
1650C/1650	1	0	--	--	0	--	--	--	---	---	0	--	--	0	--	--	--	---	---	0	--	--	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	---	---		
506C/506	2	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---		
1598C/1598	2	0	--	--	0	--	--	--	---	---	0	--	--	0	--	--	--	---	---	0	--	--	0	--	--	--	---	---		
846C/846	2	0	--	--	0	--	--	--	---	---	0	--	--	0	--	--	--	---	---	0	--	--	0	--	--	--	---	---		
1650C/1650	2	0	--	--	0	--	--	--	---	---	0	--	--	0	--	--	--	---	---	0	--	--	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	---	---		
506C/506	3	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---		
1598C/1598	3	0	--	--	0	--	--	--	---	---	0	--	--	0	--	--	--	---	---	0	--	--	0	--	--	--	---	---		
846C/846	3	0	--	--	0	--	--	--	---	---	0	--	--	0	--	--	--	---	---	0	--	--	0	--	--	--	---	---		
1650C/1650	3	0	--	--	0	--	--	--	---	---	0	--	--	0	--	--	--	---	---	0	--	--	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	---	---		

(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 5.256, Page 4, December 15, 1994

Table C-5.257. Algal Percent Cover. Invertebrates. Prince William Sound, Coarse Textured, July 1991. Cleared September 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; 0 = 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	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	---		0	--	--	3	0.00	0.00	-	---	---	---	
1598C/1598	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---		0	--	--	0	--	--	-	---	---	---	
846C/846	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---		0	--	--	0	--	--	-	---	---	---	
1650C/1650	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---		0	--	--	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	---	---	---	
506C/506	2	0	--	--	3	0.83	0.83	-	---	---	0	--	--	3	0.00	0.00	-	---	---	---		0	--	--	3	1.67	0.83	-	---	---	---	
1598C/1598	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---		0	--	--	0	--	--	-	---	---	---	
846C/846	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---		0	--	--	0	--	--	-	---	---	---	
1650C/1650	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---		0	--	--	0	--	--	-	---	---	---	
Habitat Means			--	--		0.80	0.80					--	--		0.00	0.00							--	--		1.70	0.80					
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	---	---	---	
506C/506	3	0	--	--	2	2.50	2.50	-	---	---	0	--	--	2	0.00	0.00	-	---	---	---		0	--	--	2	8.75	8.75	-	---	---	---	
1598C/1598	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---		0	--	--	0	--	--	-	---	---	---	
846C/846	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---		0	--	--	0	--	--	-	---	---	---	
1650C/1650	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---		0	--	--	0	--	--	-	---	---	---	
Habitat Means			--	--		2.50	2.50					--	--		0.00	0.00							--	--		8.80	8.80					
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-5.257, Page 1, December 15, 1994

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	0	--	--	3	0.00	0.00	-	---	---																						
1598C/1598	1	0	--	--	0	--	--	-	---	---																						
846C/846	1	0	--	--	0	--	--	-	---	---																						
1650C/1650	1	0	--	--	0	--	--	-	---	---																						
Habitat Means			--	--		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	---	---			
506C/506	2	0	--	--	3	0.00	0.00	-	---	---																						
1598C/1598	2	0	--	--	0	--	--	-	---	---																						
846C/846	2	0	--	--	0	--	--	-	---	---																						
1650C/1650	2	0	--	--	0	--	--	-	---	---																						
Habitat Means			--	--		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	---	---			
506C/506	3	0	--	--	2	0.00	0.00	-	---	---																						
1598C/1598	3	0	--	--	0	--	--	-	---	---																						
846C/846	3	0	--	--	0	--	--	-	---	---																						
1650C/1650	3	0	--	--	0	--	--	-	---	---																						
Habitat Means			--	--		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-5.257, Page 2, December 15, 1994

**Table C-5.258. Algal Percent Cover, Substrates, Prince William Sound, Coarse Textured, July 1991, Cleared September 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	N	Rock								Oiled Rock								Mud										
			C	SE	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	0	--	--	3	97.50	2.50	-	---	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	0	--	---	
1598C/1598	1	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	---	
846C/846	1	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	---	
1650C/1650	1	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	---	
Habitat Means			--	--		97.50	2.50			--	--	--		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	---	Power	---		Power-50%	---	P-value	---
Stouffer's	Power		---		Power-50%	---	P-value	---	Power	---		Power-50%	---	P-value	---	Power	---		Power-50%	---	P-value	---	Power	---		Power-50%	---	P-value	---
506C/506	2	0	--	--	3	93.33	2.20	-	---	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	0	--	---	
1598C/1598	2	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	---	
846C/846	2	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	---	
1650C/1650	2	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	---	
Habitat Means			--	--		93.30	2.20			--	--	--		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	---	Power	---		Power-50%	---	P-value	---
Stouffer's	Power		---		Power-50%	---	P-value	---	Power	---		Power-50%	---	P-value	---	Power	---		Power-50%	---	P-value	---	Power	---		Power-50%	---	P-value	---
506C/506	3	0	--	--	2	53.75	23.75	-	---	0	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	0.00	-	---	0	--	---	
1598C/1598	3	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	---	
846C/846	3	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	---	
1650C/1650	3	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	---	
Habitat Means			--	--		53.80	23.80			--	--	--		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	---	Power	---		Power-50%	---	P-value	---
Stouffer's	Power		---		Power-50%	---	P-value	---	Power	---		Power-50%	---	P-value	---	Power	---		Power-50%	---	P-value	---	Power	---		Power-50%	---	P-value	---

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

Table C 5.258, Page 1, December 15, 1994

Site Pair	Mvd	N	Sand								Shell Fragments								Water															
			C	SE	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	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	
1598C/1598	1	0	--	--	0	--	--	--	---	0	--	--	0	--	--	--	---	0	--	--	0	--	--	0	--	--	--	---	0	--	--	0	--	---
846C/846	1	0	--	--	0	--	--	--	---	0	--	--	0	--	--	--	---	0	--	--	0	--	--	0	--	--	--	---	0	--	--	0	--	---
1650C/1650	1	0	--	--	0	--	--	--	---	0	--	--	0	--	--	--	---	0	--	--	0	--	--	0	--	--	--	---	0	--	--	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	---	Power	---		Power-50%	---		P-value	---	
Stouffer's	Power		---		Power-50%	---		P-value	---	Power	---		Power-50%	---		P-value	---	Power	---		Power-50%	---		P-value	---	Power	---		Power-50%	---		P-value	---	
506C/506	2	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	
1598C/1598	2	0	--	--	0	--	--	--	---	0	--	--	0	--	--	--	---	0	--	--	0	--	--	0	--	--	--	---	0	--	--	0	--	---
846C/846	2	0	--	--	0	--	--	--	---	0	--	--	0	--	--	--	---	0	--	--	0	--	--	0	--	--	--	---	0	--	--	0	--	---
1650C/1650	2	0	--	--	0	--	--	--	---	0	--	--	0	--	--	--	---	0	--	--	0	--	--	0	--	--	--	---	0	--	--	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	---	Power	---		Power-50%	---		P-value	---	
Stouffer's	Power		---		Power-50%	---		P-value	---	Power	---		Power-50%	---		P-value	---	Power	---		Power-50%	---		P-value	---	Power	---		Power-50%	---		P-value	---	
506C/506	3	0	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	0.00	-	---	
1598C/1598	3	0	--	--	0	--	--	--	---	0	--	--	0	--	--	--	---	0	--	--	0	--	--	0	--	--	--	---	0	--	--	0	--	---
846C/846	3	0	--	--	0	--	--	--	---	0	--	--	0	--	--	--	---	0	--	--	0	--	--	0	--	--	--	---	0	--	--	0	--	---
1650C/1650	3	0	--	--	0	--	--	--	---	0	--	--	0	--	--	--	---	0	--	--	0	--	--	0	--	--	--	---	0	--	--	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	---	Power	---		Power-50%	---		P-value	---	
Stouffer's	Power		---		Power-50%	---		P-value	---	Power	---		Power-50%	---		P-value	---	Power	---		Power-50%	---		P-value	---	Power	---		Power-50%	---		P-value	---	

\* At least one site pair p-value < 0.100 in 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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Table C-5.258. Algal Percent Cover. Substrates. Prince William Sound. Coarse Textured. July 1991. Cleared September 1989. (Continued.)

Site Pair	Mvd	N	Zostera/Phyllospadix							Sand and Mud							Total Substrate											
			C	SE	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	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	0	--	--	3	97.50	2.50	-	---	0	--	---
1598C/1598	1	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	---
846C/846	1	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	---
1650C/1650	1	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	---
Habitat Means			--	--		0.00	0.00				--	--		0.00	0.00					--	--		97.50	2.50				
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	---			
506C/506	2	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	0	--	--	3	93.33	2.20	-	---	0	--	---
1598C/1598	2	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	---
846C/846	2	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	---
1650C/1650	2	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	---
Habitat Means			--	--		0.00	0.00				--	--		0.00	0.00					--	--		93.30	2.20				
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	---			
506C/506	3	0	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	0.00	-	---	0	--	--	2	53.75	23.75	-	---	0	--	---
1598C/1598	3	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	---
846C/846	3	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	---
1650C/1650	3	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	---
Habitat Means			--	--		0.00	0.00				--	--		0.00	0.00					--	--		53.80	23.80				
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	---			

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

**Table C-5.259. Algal Percent Cover, Totals and Seasonal Groups, Prince William Sound, Estuarine, July 1991, Cleared September 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; 0 = 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	0	0	--	--	0	--	--	--	--	1.000	2	0.50	0.50	3	0.00	0.00	-	+	0.500	2	6.25	6.25	3	0.00	0.00	-	+	0.500	
2397C/20809 1	2	0.00	0.00	0.00	3	0.00	0.00	0	0	1.000	2	0.50	0.50	3	0.00	0.00	0.00	-	+	0.500	2	6.30	6.30	3	0.00	0.00	-	+	0.500
Habitat Means		0.00	0.00	0.00	0.00	0.00	0.00	0	0																				
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			
P15.1C/P15.1 2	0	0	--	--	0	--	--	--	--	0.423	3	1.67	1.20	3	0.00	0.00	-	+	0.300	3	45.83	29.17	3	0.00	0.00	-	+	0.244	
2397C/20809 2	3	0.12	0.12	0.12	3	0.00	0.00	0	0	0.423	3	1.67	1.20	3	0.00	0.00	0.00	-	+	0.300	3	45.80	29.20	3	0.00	0.00	-	+	0.244
Habitat Means		0.12	0.12	0.12	0.00	0.00	0.00	0	0																				
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			
P15.1C/P15.1 3	0	0	--	--	0	--	--	--	--	---	2	4.50	1.50	0	--	--	--	--	---	2	72.50	15.00	0	--	--	--	--	---	
2397C/20809 3	2	0.58	0.13	0.13	0	--	--	--	---	---	2	4.50	1.50	0	--	--	--	--	---	2	72.50	15.00	0	--	--	--	--	---	
Habitat Means		0.58	0.13	0.13	--	--	--	--	---	---					--	--	--	--	---					--	--	--	--	---	
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.

Table C 5.259, Page 1, December 15, 1994

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	0	--	--	--	0	--	--	--	--	0.356	2	37.50	37.50	3	100.00	0.00	--	--	0.295	2	6.25	6.25	3	0.00	0.00	--	--	0.500
2397C/20809 1	2	56.25	43.75	3	0.00	0.00	0.00	--	--	--	2	37.50	37.50	3	100.00	0.00	--	--	--	--	6.30	6.30	3	0.00	0.00	--	--	--
Habitat Means		56.30	43.80		0.00	0.00	0.00	--	--	--																		
Fisher's	Power	--	--	--	Power-50%	--	--	P-value	--	--				Power-50%	--	--	P-value	--	--	Power	--	--	Power-50%	--	--	P-value	--	--
Stouffer's	Power	--	--	--	Power-50%	--	--	P-value	--	--				Power-50%	--	--	P-value	--	--	Power	--	--	Power-50%	--	--	P-value	--	--
P15.1C/P15.1 2	0	--	--	--	0	--	--	--	--	0.667	3	6.67	6.67	3	75.83	14.81	--	--	0.018	3	45.00	29.30	3	0.00	0.00	--	--	0.249
2397C/20809 2	3	41.67	30.05	3	24.17	14.81	14.80	0	0.667	3	6.70	6.70	3	75.80	14.80	14.80	--	--	--	--	45.00	29.30	3	0.00	0.00	--	--	--
Habitat Means		41.70	30.10		24.20	14.80	14.80	0																				
Fisher's	Power	--	--	--	Power-50%	--	--	P-value	--	--				Power-50%	--	--	P-value	--	--	Power	--	--	Power-50%	--	--	P-value	--	--
Stouffer's	Power	--	--	--	Power-50%	--	--	P-value	--	--				Power-50%	--	--	P-value	--	--	Power	--	--	Power-50%	--	--	P-value	--	--
P15.1C/P15.1 3	0	--	--	--	0	--	--	--	--	---	2	6.25	6.25	0	--	--	--	--	---	2	13.75	8.75	0	--	--	--	--	---
2397C/20809 3	2	15.00	2.50	0	--	--	--	--	---	---	2	6.30	6.30	0	--	--	--	--	---	2	13.80	8.80	0	--	--	--	--	---
Habitat Means		15.00	2.50		--	--	--	--	---	---					--	--	--	--	---					--	--	--	--	---
Fisher's	Power	--	--	--	Power-50%	--	--	P-value	--	--				Power-50%	--	--	P-value	--	--	Power	--	--	Power-50%	--	--	P-value	--	--
Stouffer's	Power	--	--	--	Power-50%	--	--	P-value	--	--				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 5.259, Page 2, December 15, 1994

Table C-5.259. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Estuarine. July 1991. Cleared September 1989. (Continued.)

site Pair	Mvd	Annals (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			
P15.1C/P15.1	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	---	---	---	---	---	---	---	---	---		
2397C/20809	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	---			Power	---		Power-50%	---	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	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	---	---	---	---	---	---	---	---			
2397C/20809	2	3	0.83	0.83	3	0.00	0.00	-	+	0.423	3	0.00	0.00	3	0.00	0.00	-	o	1.000												
Habitat Means			0.80	0.80		0.00	0.00		+			0.00	0.00		0.00	0.00		o													
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	---					
P15.1C/P15.1	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	---	---	---	---	---	---	---	---			
2397C/20809	3	2	58.75	6.25	0	--	--	-	---	---	2	40.00	5.00	0	--	--	-	---	---	---	---	---	---	---	---	---	---	---			
Habitat Means			58.80	6.30		--	--		---			40.00	5.00		--	--		---													
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-5.260. Algal Percent Cover. Chlorophyta. Prince William Sound, Estuarine. July 1991. Cleared September 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 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	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---		
2397C/20809	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	---	z	Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	P-value	---	z	Power	---	
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---	P-value	---		Power	---	
P15.1C/P15.1	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---		
2397C/20809	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		
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	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	---	P-value	---	z	Power	---	
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---	P-value	---		Power	---	
P15.1C/P15.1	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---		
2397C/20809	3	2	8.75	8.75	0	--	--	-	---	---	2	1.25	1.25	0	--	--	-	---	---	2	1.25	1.25	0	--	--	-	---	---		
Habitat Means			8.80	8.80		--	--					1.30	1.30		--	--					1.30	1.30		--	--					
Fisher's	Power		---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	P-value	---	z	Power	---	
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---	P-value	---		Power	---	

(a) *Zorramnia*, *Monostroma*, *Ulva* and *Ulvaria*.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.260. Page 1. December 15, 1994

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	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---															
2397C/20809	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	---	z	Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	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	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---	
P15.1C/P15.1	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---															
2397C/20809	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															
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	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	---	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	---	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	2	7.50	7.50	0	--	--	-	---	---	2	0.00	0.00	0	--	--	-	---	---	2	0.00	0.00	0	--	--	-	---	---															
Habitat Means			7.50	7.50		--	--					0.00	0.00		--	--					0.00	0.00		--	--																		
Fisher's	Power		---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	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	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---	

(a) Genera not separated.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.260. Page 2. December 15, 1994



Table C-5.260. Algal Percent Cover. Chlorophyta. Prince William Sound. Estuarine. July 1991. Cleared September 1989. (Continued.)

Site Pair	Mvd	Cladophora sp. (AE)									Morphological Group: Tubular and Saccate Greens									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
P15.1C/P15.1	1	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---
2397C/20809	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	---		---	Power	---		Power-50%	---	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	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---
2397C/20809	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
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
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	---		---
P15.1C/P15.1	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---
2397C/20809	3	2	7.50	7.50	0	--	--	--	--	---	2	0.00	0.00	0	--	--	--	--	---	2	0.00	0.00	0	--	--	--	--	---
Habitat Means			7.50	7.50		--	--		--			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	---		---

(a) Genera not separated.

\* At least one site pair p-value < 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.260. Page 3. December 15, 1994

**Table C-5.261. Algal Percent Cover. Phaeophyta. Prince William Sound, Estuarine, July 1991. Cleared September 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										Fucus cottonii (P)									
P15.1C/P15.1	1	0	--	--	0	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--	
2397C/20809	1	2	6.25	6.25	3	0.00	0.00	-	+	0.500	2	6.25	6.25	3	0.00	0.00	-	+	0.500	2	0.00	0.00	3	0.00	0.00	-	o	1.000	
Habitat Means			6.30	6.30		0.00	0.00		+			6.30	6.30		0.00	0.00		+			0.00	0.00		0.00	0.00		o		
Fisher's	Power		---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	
Stouffer's	Power		---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	
P15.1C/P15.1	2	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	
2397C/20809	2	3	43.33	29.63	3	0.00	0.00	-	-	0.259	3	42.50	29.83	3	0.00	0.00	-	+	0.264	3	0.00	0.00	3	0.00	0.00	-	o	1.000	
Habitat Means			43.30	29.60		0.00	0.00		+			42.50	29.80		0.00	0.00		+			0.00	0.00		0.00	0.00		o		
Fisher's	Power		---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	
Stouffer's	Power		---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	
P15.1C/P15.1	3	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	
2397C/20809	3	2	63.75	23.75	0	--	--	--	--	--	2	13.75	8.75	0	--	--	--	--	--	2	0.00	0.00	0	--	--	--	--	--	
Habitat Means			63.80	23.80		--	--	--	--	--		13.80	8.80		--	--	--	--	--		0.00	0.00		--	--	--	--	--	
Fisher's	Power		---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	
Stouffer's	Power		---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	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-5.261. Page 1. December 15, 1994

Total <i>Fucus gardneri</i> (P)										Adult <i>Fucus gardneri</i> (P) (> 2cm)										Juvenile <i>Fucus gardneri</i> (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	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---	0	--	--	0	--	--	--	--	---	
2397C/20809	1	2	6.25	6.25	3	0.00	0.00	-	+	0.500	2	6.25	6.25	3	0.00	0.00	-	+	0.500	2	0.00	0.00	3	0.00	0.00	0.00	-	o	1.000	
Habitat Means			6.30	6.30		0.00	0.00		+			6.30	6.30		0.00	0.00		-			0.00	0.00		0.00	0.00		o			
Fisher's	Power		---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	Power-50%	---	---	---	
Stouffer's	Power		---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	Power-50%	---	---	---	
P15.1C/P15.1	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---	0	--	--	0	--	--	--	--	---	
2397C/20809	2	3	42.50	29.83	3	0.00	0.00	-	-	0.264	3	42.50	29.83	3	0.00	0.00	-	+	0.264	3	0.00	0.00	3	0.00	0.00	0.00	0.00	-	o	1.000
Habitat Means			42.50	29.80		0.00	0.00		+			42.50	29.80		0.00	0.00		+			0.00	0.00		0.00	0.00		o			
Fisher's	Power		---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	Power-50%	---	---	---	
Stouffer's	Power		---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	Power-50%	---	---	---	
P15.1C/P15.1	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---	0	--	--	0	--	--	--	--	---	
2397C/20809	3	2	13.75	8.75	0	--	--	--	--	---	2	13.75	8.75	0	--	--	--	--	---	---	2	0.00	0.00	0	--	--	--	--	---	
Habitat Means			13.80	8.80		--	--	--	--	---		13.80	8.80		--	--	--	--	---		0.00	0.00		--	--	--	--	---		
Fisher's	Power		---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	Power-50%	---	---	---	
Stouffer's	Power		---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	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-5.261. Page 2. December 15, 1994

Table C-5.261. Algal Percent Cover. Phaeophyta. Prince William Sound. Estuarine. July 1991. Cleared September 1989. (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															
P15.1C/P15.1	1	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	---	0	--	--	---			
2397C/20809	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	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	0.00		o			0.00	0.00	0.00	0.00	0.00	0.00		o			0.00	0.00	0.00		o								
Fisher's	Power	---			Power-50%	---				---	Power	---			Power-50%	---			---	Power	---			Power-50%	---			---	Power	---			Power-50%	---			---	Power	---			---	
Stouffer's	Power	---			Power-50%	---				---	Power	---			Power-50%	---			---	Power	---			Power-50%	---			---	Power	---			Power-50%	---			---	Power	---			---	
P15.1C/P15.1	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	---	0	--	--	---			
2397C/20809	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	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	0.00		o			0.00	0.00	0.00	0.00	0.00		o			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%	---				---	Power	---			Power-50%	---			---	Power	---			Power-50%	---			---	Power	---			Power-50%	---			---	Power	---			---	
Stouffer's	Power	---			Power-50%	---				---	Power	---			Power-50%	---			---	Power	---			Power-50%	---			---	Power	---			Power-50%	---			---	Power	---			---	
P15.1C/P15.1	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	---	0	--	--	---			
2397C/20809	3	2	0.00	0.00	0	--	--	--	--	---	2	18.75	1.25	0	--	--	--	--	---	2	13.75	6.25	0	--	--	--	--	---	2	13.75	6.25	0	--	--	--	---	2	13.75	6.25	0	--	--	---
Habitat Means			0.00	0.00	--	--	--	--	--	---	18.80	1.30	--	--	--	--	--	--	---	13.80	6.30	--	--	--	--	--	--	---	13.80	6.30	--	--	--	--	--	---	13.80	6.30	--	--	---		
Fisher's	Power	---			Power-50%	---				---	Power	---			Power-50%	---			---	Power	---			Power-50%	---			---	Power	---			Power-50%	---			---	Power	---			---	
Stouffer's	Power	---			Power-50%	---				---	Power	---			Power-50%	---			---	Power	---			Power-50%	---			---	Power	---			Power-50%	---			---	Power	---			---	

(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-5.261. Page 3. December 15, 1994

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
2397C/20809	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	0.00	o				0.00	0.00	0.00	0.00	0.00	o				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	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---
2397C/20809	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
Habitat Means			0.00	0.00	0.00	0.00	0.00	o				0.00	0.00	0.00	0.00	0.00	o				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	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---
2397C/20809	3	2	5.00	5.00	0	--	--	--	--	---	2	31.25	13.75	0	--	--	--	--	---	2	31.25	13.75	0	--	--	--	--	---
Habitat Means			5.00	5.00	--	--	--	--	--	---	31.30	13.80	--	--	--	--	--	--	---	31.30	13.80	--	--	--	--	--	---	
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	---		

(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-5.261. Page 4. December 15, 1994

Table C-5.261. Algal Percent Cover. Phaeophyta. Prince William Sound. Estuarine. July 1991. Cleared September 1989. (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	0	--	--	0	--	--	-	o	1.000	0	--	--	0	--	--	-	o	1.000										
2397C/20809	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	---	Power			Power-50%		---		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	0	--	--	0	--	--	-	+	0.423	0	--	--	0	--	--	-	+	0.423										
2397C/20809	2	3	0.83	0.83	3	0.00	0.00	-	+	0.423	3	0.83	0.83	3	0.00	0.00	-	+	0.423										
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	---	Power			Power-50%		---		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	2	0.00	0.00	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---										
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 5.261, Page 5, December 15, 1994

Table C-5.262. Algal Percent Cover. Rhodophyta. Prince William Sound. Estuarine. July 1991. Cleared September 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 Rhodophyta									Morphological Group: Bladed Reds									Porphyra sp. (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	2	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		0.00		o			
Fisher's	Power		---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---		Power-50%	---	P-value	---	z
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power-50%	---	P-value	---	
P15.1C/P15.1	2	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	-	---
2397C/20809	2	3	2.50	2.50	3	0.00	0.00	-	+	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		
Habitat Means			2.50	2.50		0.00	0.00		+		0.00	0.00		0.00	0.00		o		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	---		Power-50%	---	P-value	---	z
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power-50%	---	P-value	---	
P15.1C/P15.1	3	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	-	---
2397C/20809	3	2	0.00	0.00	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	---	z	Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---		Power-50%	---	P-value	---	z
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		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-5.262. Page 1, December 15, 91

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	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	0	--	--	0	--	--	-	---	---	
2397C/20809	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		0.00		o			
Fisher's	Power		---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---		Power-50%	---	P-value	---	z
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power-50%	---	P-value	---	
P15.1C/P15.1	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	0	--	--	0	--	--	-	---	---	
2397C/20809	2	3	2.50	2.50	3	0.00	0.00	-	-	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		
Habitat Means			2.50	2.50		0.00	0.00		-		0.00	0.00		0.00	0.00		o		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	---		Power-50%	---	P-value	---	z
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power-50%	---	P-value	---	
P15.1C/P15.1	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	0	--	--	0	--	--	-	---	---	
2397C/20809	3	2	0.00	0.00	0	--	--	-	---	---	2	0.00	0.00	0	--	--	-	---	---	---	2	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	---	z	Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---		Power-50%	---	P-value	---	z
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		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-5.262. Page 2, December 15, 1991

Table C-5.262. Algal Percent Cover, Rhodophyta, Prince William Sound, Estuarine, July 1991. Cleared September 1989. (Continued.)

Neorhodomela/Rhodomela (P) (a)											Odonthalia floccosa (P)											Morphological Group: Fine Filamentous Reds										
i	Mvd	N	C	SE	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	0	--	--	0	--	--	-	--	--	0	--	--	0	--	--	-	--	--	0	--	--	0	--	--	-	--	--				
2397C/20809	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	0.00		o			0.00	0.00	0.00	0.00	0.00		o			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	0	--	--	0	--	--	-	--	--	0	--	--	0	--	--	-	--	--	0	--	--	0	--	--	-	--	--				
2397C/20809	2	3	0.83	0.83	3	0.00	0.00	-	+	0.423	3	1.67	1.67	3	0.00	0.00	-	+	0.423	3	0.00	0.00	3	0.00	0.00	-	+	0.423				
Habitat Means			0.80	0.80	0.00	0.00	0.00		-			1.70	1.70	0.00	0.00	0.00		-			0.00	0.00	0.00	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	---					
P15.1C/P15.1	3	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--				
2397C/20809	3	2	0.00	0.00	0	--	--	-	--	--	2	0.00	0.00	0	--	--	-	--	--	2	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	---					

(a) Cover in percent.

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

Table C-5.262, Page 3, December 15, 1994

Polysiphonia/Pterosiphonia (A) (a)																												
Site Pair	Mvd	N	C	SE	O	O	SE	CV	D	P																		
2397C/20809	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	---	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	0	--	--	0	--	--	--	--	--																		
2397C/20809	2	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	---	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	--	--	--	--	--																		
2397C/20809	3	2	0.00	0.00	0	--	--	--	--	--																		
Habitat Means			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-5.262, Page 4, December 15, 1994

**Table C-5.263. Algal Percent Cover. Invertebrates. Prince William Sound. Estuarine. July 1991. Cleared September 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	
P15.1C/P15.1	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	o	---	---	0	--	--	0	--	--	-	---	---
2397C/20809	1	2	56.25	43.75	3	0.00	0.00	-	+	0.356	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			56.30	43.80		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	---		---	Power	---		Power-50%	---	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	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	o	---	---	0	--	--	0	--	--	-	---	---
2397C/20809	2	3	40.00	28.43	3	21.67	15.83	-	+	0.637	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	1.67	1.67	3	2.50	1.44	-	-	0.627	
Habitat Means			40.00	28.40		21.70	15.80		+			0.00	0.00		0.00	0.00		o			1.70	1.70		2.50	1.40		-		
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	---		---	
P15.1C/P15.1	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	-	---	---	0	--	--	0	--	--	-	---	---
2397C/20809	3	2	11.25	1.25	0	--	--	-	---	---	2	0.00	0.00	0	--	--	-	-	---	---	2	3.75	3.75	0	--	--	-	---	---
Habitat Means			11.30	1.30		--	--		---	---		0.00	0.00		--	--		---			3.80	3.80		--	--		---	---	
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-5.263, Page 1, December 15, 1994

		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	0	--	--	0	--	--	--	--	---										---									---		
2397C/20809	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	---		---	Power	---		Power-50%	---	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	0	--	--	0	--	--	--	--	---										---									---		
2397C/20809	2	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	---		---	Power	---		Power-50%	---	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	2	0.00	0.00	0	--	--	--	--	---										---									---		
Habitat Means			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-5.263, Page 2, December 15, 1994

Table C-5.264. Algal Percent Cover. Substrates. Prince William Sound, Estuarine, July 1991. Cleared September 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	N	Rock							Mud							Sand												
			C	SE	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	2	37.50	37.50	3	100.00	0.00	-	-	0.295	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	
Habitat Means			37.50	37.50		100.00	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	Power
Stouffer's	Power		---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power
P15.1C/P15.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0
2397C/20809	2	3	6.67	6.67	3	75.83	14.81	-	-	0.018	3	5.83	5.83	3	0.00	0.00	-	-	0.423	3	0.00	0.00	3	0.00	0.00	-	o	1	
Habitat Means			6.70	6.70		75.80	14.80		-			5.80	5.80		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	Power
Stouffer's	Power		---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0
2397C/20809	3	2	6.25	6.25	0	--	--	-		---	2	5.00	5.00	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---	0
Habitat Means			6.30	6.30		--	--					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	Power
Stouffer's	Power		---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power

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

Table C-5.264. Page 1, December 15, 1994

Site Pair	Mvd	N	Shell Fragments							Water							Zostera/Phyllospadix												
			C	SE	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	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	-	o		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	---	z	Power	---		Power-50%		---	P-value	---	z	Power	---		Power-50%		---	P-value	---	z	Power
Stouffer's	Power		---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power
P15.1C/P15.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0
2397C/20809	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		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	Power
Stouffer's	Power		---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0
2397C/20809	3	2	1.25	1.25	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---	0
Habitat Means			1.30	1.30		--	--					0.00	0.00		--	--					0.00	0.00		--	--				
Fisher's	Power		---		Power-50%		---	P-value	---	z	Power	---		Power-50%		---	P-value	---	z	Power	---		Power-50%		---	P-value	---	z	Power
Stouffer's	Power		---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power

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

Table C-5.264. Page 2, December 15, 1994



Table C-5.264. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Estuarine. July 1991. Cleared September 1989. (Continued.)

Site Pair	Mvd	N	Sand and Mud								Total Substrate																		
			C	SE	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	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	-	---	0	--	--	0	--	--	0	--	--	-	---
2397C/20809	1	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	37.50	37.50	3	100.00	0.00	-	-	0.295										
Habitat Means			0.00	0.00		0.00	0.00		o			37.50	37.50		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	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	-	---	0	--	--	0	--	--	0	--	--	-	---
2397C/20809	2	3	5.83	5.83	3	0.00	0.00	-	+	0.423	3	12.50	12.50	3	75.83	14.81	-	-	0.038										
Habitat Means			5.80	5.80		0.00	0.00		-			12.50	12.50		75.80	14.80		-											
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	---			
P15.1C/P15.1	3	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	-	---	0	--	--	0	--	--	0	--	--	-	---
2397C/20809	3	2	6.25	6.25	0	--	--	-		---	2	12.50	12.50	0	--	--	-		---										
Habitat Means			6.30	6.30		--	--					12.50	12.50		--	--			---										
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-5.264. Page 1. December 15, 1994

Table C-5.265. Algal Percent Cover, Totals and Seasonal Groups, Prince William Sound, Exposed Rocky, July 1991, Cleared September 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	Algal Diversity Index (a)										Algal Taxa Richness (b)										Total Algae									
	Mvd	N	C	SE	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					0									0									0	--	--	--	--	--		
1642C/833	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.33	0.33	-	-	0.423	3	0.00	0.00	3	1.67	1.67	-	-	0.423		
4537C/979	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		o			0.00	0.00		0.17	0.17		-			0.00	0.00		0.85	0.85		-			
Fisher's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	z	
Stouffer's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	z	
19C/19	2	0	--	--	0	--	--			---	0	--	--	0	--	--			---	0	--	--	0	--	--			---		
1642C/833	2	3	0.11	0.08	3	0.16	0.16	-	-	0.798	3	1.33	0.67	3	2.00	1.53	-	-	0.720	3	25.00	17.02	3	48.33	25.22	-	-	0.586		
4537C/979	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.33	0.33	-		---	0	--	--	3	4.17	4.17	-		---		
Habitat Means			0.11	0.08		0.08	0.08		-			1.33	0.67		1.17	0.93		-			25.00	17.00		26.25	14.70		-			
Fisher's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	z	
Stouffer's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	z	
19C/19	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		
1642C/833	3	2	0.40	0.01	1	0.00	--	-	+	---	2	3.50	0.50	1	1.00	--	-	+	---	2	40.00	17.50	1	100.00	--	-	-	---		
4537C/979	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.50	0.50	-		---	0	--	--	2	48.75	48.75	-		---		
Habitat Means			0.40	0.01		0.00	0.00					3.50	0.50		0.75	0.50					40.00	17.50		74.40	48.80					
Fisher's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	z	
Stouffer's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	z	

(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.

Table C 5.265, Page 1, December 15, 1994

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	--	-	--	--	-	--	CV	-	-	
19C/19	1	0	--	--	0	--	--	-	-	---	0	--	--	0	--	--	-	-	-	---	0	--	--	0	--	--	-	-	---
1642C/833	1	3	0.00	0.00	3	5.00	5.00	-	-	0.423	3	100.00	0.00	3	93.33	6.67	-	-	0.423	3	0.00	0.00	3	1.67	1.67	-	-	0.423	
4537C/979	1	0	--	--	3	0.83	0.83	-	-	---	0	--	--	3	99.17	0.83	-	-	---	0	--	--	3	0.00	0.00	-	-	---	
Habitat Means			0.00	0.00		2.90	2.90		-			100.00	0.00		96.25	3.75		+			0.00	0.00		0.85	0.85		-		
Fisher's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	z
Stouffer's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	z
19C/19	2	0	--	--	0	--	--	-	-	---	0	--	--	0	--	--	-	-	-	---	0	--	--	0	--	--	-	-	---
1642C/833	2	3	1.67	0.83	3	0.83	0.83	-	+	0.519	3	73.33	17.64	3	50.83	25.43	-	+	0.606	3	22.50	16.65	3	43.33	24.55	-	-	0.602	
4537C/979	2	0	--	--	3	0.83	0.83	-	-	---	0	--	--	3	95.00	3.82	-	-	---	0	--	--	3	4.17	4.17	-	-	---	
Habitat Means			1.70	0.80		0.80	0.80		-			73.30	17.60		72.90	14.60		+			22.50	16.70		23.75	14.40		-		
Fisher's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	z
Stouffer's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	z
19C/19	3	0	--	--	0	--	--	-	-	---	0	--	--	0	--	--	-	-	-	---	0	--	--	0	--	--	-	-	---
1642C/833	3	2	0.00	0.00	1	0.00	--	-	o	---	2	60.00	17.50	1	0.00	--	-	+	---	2	7.50	5.00	1	100.00	--	-	-	---	
4537C/979	3	0	--	--	2	0.00	0.00	-	-	---	0	--	--	2	51.25	48.75	-	-	---	0	--	--	2	48.75	48.75	-	-	---	
Habitat Means			0.00	0.00		0.00	0.00					60.00	17.50		25.63	48.80					7.50	5.00		74.40	48.80				
Fisher's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	z
Stouffer's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	z

x At least one site pair p-value < 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.265, Page 2, December 15, 1994

Table C-5.265. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Exposed Rocky. July 1991. Cleared September 1989. (Continued.)

Annuals (A)												Ephemerals (AE)																	
Site	Pair	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 0	0.00	0.00	0.00	3	0.00	0.00	-	0	1.000	3	0.00	0.00	3	0.00	0.00	-	0	1.000										
1642C/833	1 3	--	--	--	3	0.00	0.00	--	---	---	0	--	--	3	0.00	0.00	--	---	---										
4537C/979	1 0																												
Habitat Means		0.00	0.00		0.00	0.00			0		0.00	0.00		0.00	0.00		0												
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	---		
19C/19	2 0	--	--	0	--	--	--	-	---	---	0	--	--	0	--	--	--	-	---	---									
1642C/833	2 3	2.50	1.44	3	5.00	5.00	-	-	0.977		3	1.67	1.67	3	0.00	0.00	-	-	0.423										
4537C/979	2 0	--	--	3	0.00	0.00	--	---	---		0	--	--	3	0.00	0.00	--	---	---										
Habitat Means		2.50	1.40		2.50	2.50	-				1.70	1.70		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	---		
19C/19	3 0	--	--	0	--	--	-	---	---	---	0	--	--	0	--	--	--	-	---	---									
1642C/833	3 2	32.50	22.50	1	0.00	--	-	-	---	---	2	11.25	3.75	1	0.00	--	-	+	---										
4537C/979	3 0	--	--	2	0.00	0.00	-	---	---	---	0	--	--	2	0.00	0.00	-	+	---										
Habitat Means		32.50	22.50		0.00	0.00					11.30	3.80		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 5.265. Page 3. December 15, 1994

Table C-5.266. Algal Percent Cover. Chlorophyta. Prince William Sound. Exposed Rocky. July 1991. Cleared September 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 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	0	---	---	0	---	---	---	---	---	0	---	---	0	---	---	---	---	---	---	0	---	---	0	---	---	---	---	---	
1642C/833	1	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	0.00	-	o	1.000	
4537C/979	1	0	---	---	3	0.00	0.00	-	---	---	0	---	---	3	0.00	0.00	-	---	---	0	---	---	3	0.00	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		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	z	
Stouffer's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	z	
19C/19	2	0	---	---	0	---	---	-	---	---	0	---	---	0	---	---	---	---	---	0	---	---	0	---	---	---	---	---		
1642C/833	2	3	1.67	1.67	3	0.00	0.00	-	+	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	0.00	-	o	1.000	
4537C/979	2	0	---	---	3	0.00	0.00	-	---	---	0	---	---	3	0.00	0.00	-	---	---	0	---	---	3	0.00	0.00	0.00	-	---	---	
Habitat Means			1.70	1.70		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		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	z	
Stouffer's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	z	
19C/19	3	0	---	---	0	---	---	-	---	---	0	---	---	0	---	---	---	---	---	0	---	---	0	---	---	---	---	---		
1642C/833	3	2	5.00	5.00	1	0.00	0.00	-	+	---	2	0.00	0.00	1	0.00	0.00	-	o	---	2	0.00	0.00	1	0.00	0.00	-	o	---		
4537C/979	3	0	---	---	2	0.00	0.00	-	---	---	0	---	---	2	0.00	0.00	-	---	---	0	---	---	2	0.00	0.00	0.00	-	---	---	
Habitat Means			5.00	5.00		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		---	z	
Stouffer's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	z	

(a) Kormannia, Monostroma, Ulva and Ulvaria.

\* At least one site pair P-value < 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C 5.266, Page 1, December 15, 1994

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	0	--	--	0	--	--	-			0	--	--	0	--	--	-				0	--	--	0	--	--	-										
1642C/833	1	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	0.00	-	o	1.000								
4537C/979	1	0	--	--	3	0.00	0.00	-			0	--	--	3	0.00	0.00	-				0	--	--	3	0.00	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		0.00	o									
Fisher's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value	---	z
Stouffer's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value	---	z
19C/19	2	0	--	--	0	--	--	-			0	--	--	0	--	--	-				0	--	--	0	--	--	-										
1642C/833	2	3	1.67	1.67	3	0.00	0.00	-	+	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	0.00	-	o	1.000								
4537C/979	2	0	--	--	3	0.00	0.00	-			0	--	--	3	0.00	0.00	-				0	--	--	3	0.00	0.00	0.00	-									
Habitat Means			1.70	1.70		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		0.00	o									
Fisher's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value	---	z
Stouffer's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value	---	z
19C/19	3	0	--	--	0	--	--	-			0	--	--	0	--	--	-				0	--	--	0	--	--	-										
1642C/833	3	2	5.00	5.00	1	0.00	0.00	-	+		2	0.00	0.00	1	0.00	0.00	-	o		2	0.00	0.00	1	0.00	0.00	-	o										
4537C/979	3	0	--	--	2	0.00	0.00	-			0	--	--	2	0.00	0.00	-				0	--	--	2	0.00	0.00	0.00	-									
Habitat Means			5.00	5.00		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		---	Power	---		Power-50%		---	P-value	---	z
Stouffer's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value	---	z

(a) Genera not reported.

\* At least one site pair P-value < 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C 5.266, Page 2, December 15, 1994

Table C-5.266. Algal Percent Cover. Chlorophyta. Prince William Sound. Exposed Rocky. July 1991. Cleared September 1989. (Continued.)

Site Pair	Mvd	Cladophora sp. (AE)									Ulothrix sp. (AE)									Urospora sp. (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
19C/19	1	0	--	--	0	--	--	--	--	1.000	0	--	--	0	--	--	--	--	1.000	0	--	--	0	--	--	--	--	1.000
1642C/833	1	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
4537C/979	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	--	o	---		0.00	0.00	0.00	0.00	0.00	--	o	---		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	---		---
19C/19	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---
1642C/833	2	3	1.67	1.67	3	0.00	0.00	--	+	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
4537C/979	2	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.00	0.00	--	--	---
Habitat Means			1.70	1.70	0.00	0.00	0.00	--	+	---		0.00	0.00	0.00	0.00	0.00	--	o	---		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	---		---
19C/19	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---
1642C/833	3	2	5.00	5.00	1	0.00	0.00	--	--	---	2	0.00	0.00	1	0.00	0.00	--	o	---	2	0.00	0.00	1	0.00	0.00	--	o	---
4537C/979	3	0	--	--	2	0.00	0.00	--	--	---	0	--	--	2	0.00	0.00	--	--	---	0	--	--	2	0.00	0.00	--	--	---
Habitat Means			5.00	5.00	0.00	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 5.266, Page 3, December 15, 1994

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
1642C/833	1	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									
4537C/979	1	0	--	--	3	0.00	0.00	-	--	---	0	--	--	3	0.00	0.00	-	--	---									
Habitat Means			0.00	0.00	0.00	0.00	0.00	-	o	---		0.00	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		---
19C/19	2	0	--	--	0	--	--	-	--	---	0	--	--	0	--	--	-	--	---	0	--	--	0	--	--	-	--	---
1642C/833	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									
4537C/979	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	-	o	---		0.00	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		---
19C/19	3	0	--	--	0	--	--	-	--	---	0	--	--	0	--	--	-	--	---	0	--	--	0	--	--	-	--	---
1642C/833	3	2	0.00	0.00	1	0.00	0.00	-	o	---	2	0.00	0.00	1	0.00	0.00	-	o	---									
4537C/979	3	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	0.00	0.00	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 5.266, Page 4, December 15, 1994

Table C-5.267. Algal Percent Cover. Phaeophyta. Prince William Sound. Exposed Rocky. July 1991. Cleared September 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										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	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	
1642C/833	1	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	
4537C/979	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		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o		
Fisher's																													
Stouffer's																													
19C/19	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	
1642C/833	2	3	19.17	19.17	3	44.17	24.59	-	-	0.469	3	18.33	18.33	3	40.83	24.59	-	-	0.491	3	0.00	0.00	3	0.00	0.00	-	o	1.000	
4537C/979	2	0	--	--	3	4.17	4.17	-		---	0	--	--	3	4.17	4.17	-		---	0	--	--	3	0.00	0.00	--		---	
Habitat Means			19.20	19.20		24.20	14.40		-			18.30	18.30		22.50	14.40		-			0.00	0.00		0.00	0.00		o		
Fisher's																													
Stouffer's																													
19C/19	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	
1642C/833	3	2	15.00	7.50	1	100.00	--	--	-	---	2	7.50	5.00	1	100.00	--	--	-	---	2	0.00	0.00	1	0.00	--	--	o	---	
4537C/979	3	0	--	--	2	48.75	48.75	-		---	0	--	--	2	48.75	48.75	-		---	0	--	--	2	0.00	0.00	--		---	
Habitat Means			15.00	7.50		74.40	48.80					7.50	5.00		74.40	48.80					0.00	0.00		0.00	0.00				
Fisher's																													
Stouffer's																													

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

Table C 5.267. Page 1. December 15, 1994

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	0	--	--	0	--	--	-	-	---	0	--	--	0	--	--	-	-	---	0	--	--	0	--	--	--	-	-	---			
1642C/833	1	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	0.00	-	o	1.000			
4537C/979	1	0	--	--	3	0.00	0.00	-	-	---	0	--	--	3	0.00	0.00	-	-	---	0	--	--	3	0.00	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																																
Stouffer's																																
19C/19	2	0	--	--	0	--	--	-	-	---	0	--	--	0	--	--	-	-	---	0	--	--	0	--	--	--	-	-	---			
1642C/833	2	3	18.33	18.33	3	40.83	24.59	-	-	0.491	3	9.17	9.17	3	40.00	24.66	-	-	0.339	3	9.17	9.17	3	0.83	0.83	-	+	0.531				
4537C/979	2	0	--	--	3	4.17	4.17	-	-	---	0	--	--	3	4.17	4.17	-	-	---	0	--	--	3	0.00	0.00	0.00	-	-	---			
Habitat Means			18.30	18.30		22.50	14.40	-	-			9.20	9.20		22.10	14.45	-	-			9.20	9.20		0.40	0.40	-	+					
Fisher's																																
Stouffer's																																
19C/19	3	0	--	--	0	--	--	-	-	---	0	--	--	0	--	--	-	-	---	0	--	--	0	--	--	--	-	-	---			
1642C/833	3	2	7.50	5.00	1	100.00	--	-	-	---	2	7.50	5.00	1	100.00	--	-	-	---	2	0.00	0.00	1	0.00	--	-	o	---				
4537C/979	3	0	--	--	2	48.75	48.75	-	-	---	0	--	--	2	48.75	48.75	-	-	---	0	--	--	2	0.00	0.00	0.00	-	-	---			
Habitat Means			7.50	5.00		74.40	48.80	-	-			7.50	5.00		74.40	48.80	-	-			0.00	0.00		0.00	0.00	-	o					
Fisher's																																
Stouffer's																																

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

Table C-5.267. Page 2. December 15, 1994

Table C-5.267. Algal Percent Cover. Phaeophyta. Prince William Sound. Exposed Rocky. July 1991. Cleared September 1989. (Continued.)

Fucus Stipes (P) (a)											Morphological Group: Coarse Filamentous Browns										Analipus japonicus (P)																	
w											N										w																	
n											N										n																	
SE											SE										SE																	
CV											CV										CV																	
D											D										D																	
P											P										P																	
w											w										w																	
n											n										n																	
SE											SE										SE																	
CV											CV										CV																	
D											D										D																	
P											P										P																	
19C/19	1	0	--	--	0	--	--	--	--	1.000	3	0.00	0.00	3	0.00	0.00	--	0	1.000	3	0.00	0.00	3	0.00	0.00	--	0	1.000	3	0.00	0.00	0.00	--	0	1.000			
1642C/833	1	3	0.00	0.00	3	0.00	0.00	--	--	---	3	0.00	0.00	3	0.00	0.00	--	--	---	3	0.00	0.00	3	0.00	0.00	--	--	---	3	0.00	0.00	0.00	--	---				
4537C/979	1	0	--	--	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	0.00	0.00	0.00	--	--	---		0.00	0.00	0.00	--	---				
Fisher's	Power	---	Power-50%	---	P-value	---	Power	---	Power-50%	---	Power	---	Power-50%	---	P-value	---	Power	---	Power-50%	---	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%	---	Power	---	Power-50%	---	P-value	---	Power	---	Power-50%	---	Power	---	Power-50%	---	P-value	---	Power	---	Power-50%	---	P-value	---	Power	---	Power-50%	---	P-value	---
19C/19	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	---	---	---				
1642C/833	2	3	0.00	0.00	3	0.00	0.00	--	--	1.000	3	0.83	0.83	3	3.33	3.33	--	--	0.673	3	0.00	0.00	3	0.00	0.00	--	--	0	1.000	3	0.00	0.00	0.00	--	0	1.000		
4537C/979	2	0	--	--	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	--	--	---		0.80	0.80	1.65	1.65	--	--	---		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%	---	Power	---	Power-50%	---	P-value	---	Power	---	Power-50%	---	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%	---	Power	---	Power-50%	---	P-value	---	Power	---	Power-50%	---	Power	---	Power-50%	---	P-value	---	Power	---	Power-50%	---	P-value	---	Power	---	Power-50%	---	P-value	---
19C/19	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	---	---	---				
1642C/833	3	2	0.00	0.00	1	0.00	0.00	--	--	---	2	1.25	1.25	1	0.00	--	--	+	---	2	0.00	0.00	1	0.00	0.00	--	--	0	---	---	---	---	---					
4537C/979	3	0	--	--	2	0.00	0.00	--	--	---	0	--	--	2	0.00	0.00	--	--	---	0	--	--	2	0.00	0.00	--	--	0	---	---	---	---	---					
Habitat Means			0.00	0.00	0.00	0.00	0.00	--	--	---		1.30	1.30	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%	---	Power	---	Power-50%	---	P-value	---	Power	---	Power-50%	---	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%	---	Power	---	Power-50%	---	P-value	---	Power	---	Power-50%	---	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-5.267, Page 4, December 15, 1994

Dictyosiphon sp. (A)											Myelophycus/Scytosiphon (A) (a)											Morphological Group: Fine Filamentous Browns										
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				
1642C/833	1	3		0.00	3	0.00	0.00	-	o	0.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3		0.00	3	0.00	0.00	-	o	1.000				
4537C/979	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		o			0.00	0.00		0.00	0.00		o				0.00		0.00	0.00		o					
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		---				
19C/19	2	0		--	0	--	--	-		---	0	--	--	0	--	--	-		---	0		--	0	--	--	--	-	---				
1642C/833	2	3		0.00	3	0.00	0.00	-	o	1.000	3	0.83	0.83	3	3.33	3.33	-	-	0.673	3		0.00	3	0.00	0.00	-	o	1.000				
4537C/979	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		o			0.80	0.80		1.65	1.65		-				0.00		0.00	0.00		o					
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		---				
19C/19	3	0		--	0	--	--	-		---	0	--	--	0	--	--	-		---	0		--	0	--	--	--	-	---				
1642C/833	3	2		0.00	1	0.00		-	o	---	2	1.25	1.25	1	0.00		-	-	---	2		1.25	1	0.00		-	+	---				
4537C/979	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					1.30	1.30		0.00	0.00						1.30		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-5.267, Page 4, December 15, 1994

Table C-5.267. Algal Percent Cover. Phaeophyta. Prince William Sound. Exposed Rocky. July 1991. Cleared September 1989. (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	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---		
1642C/833	1	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		
4537C/979	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	--	o	---	0.00	0.00	0.00	0.00	0.00	0.00	--	o	---	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	---						
19C/19	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---		
1642C/833	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		
4537C/979	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	--	o	---	0.00	0.00	0.00	0.00	0.00	0.00	--	o	---	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	---						
19C/19	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---		
1642C/833	3	2	6.25	1.25	1	0.00	0.00	--	+	---	2	0.00	0.00	1	0.00	0.00	--	o	---	2	0.00	0.00	1	0.00	0.00	--	o	---		
4537C/979	3	0	--	--	2	0.00	0.00	--	--	---	0	--	--	2	0.00	0.00	--	--	---	0	--	--	2	0.00	0.00	--	--	---		
Habitat Means			6.30	1.30	0.00	0.00	0.00	--		---	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	---						

(b) Elachista, Ectocarpus and Pilayella.

(a) Genera not separated.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.267. Page 5. December 15, 1994

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	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---		
1642C/833	1	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		
4537C/979	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	--	o	---	0.00	0.00	0.00	0.00	0.00	0.00	--	o	---	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	---						
19C/19	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---		
1642C/833	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		
4537C/979	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	--	o	---	0.00	0.00	0.00	0.00	0.00	0.00	--	o	---	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	---						
19C/19	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---		
1642C/833	3	2	0.00	0.00	1	0.00	0.00	--	o	---	2	0.00	0.00	1	0.00	0.00	--	o	---	2	0.00	0.00	1	0.00	0.00	--	o	---		
4537C/979	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	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 &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.267. Page 6. December 15, 1994



**Table C-5.268. Algal Percent Cover. Rhodophyta. Prince William Sound. Exposed Rocky. July 1991. Cleared September 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. (AB)										
Site Pair	Mvd	N	C	SE	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	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---	0	--	--	0	--	--	--	--	---			
1642C/833	1	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		
4537C/979	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		0.85	0.85	--	-	---		0.00	0.00		0.00	0.00	--	-	o	---		0.00	0.00		0.00	0.00	--	-	o	---		
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	---	---	---	---	---		
19C/19	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---	0	--	--	0	--	--	--	--	---			
1642C/833	2	3	4.17	4.17	3	4.17	4.17	--	-	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		
4537C/979	2	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.00	0.00	--	--	---	---	0	--	--	3	0.00	0.00	--	--	---			
Habitat Means			4.20	4.20		2.10	2.10	--	-	o		0.00	0.00		0.00	0.00	--	-	o	---		0.00	0.00		0.00	0.00	--	-	o	---		
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	---	---	---	---	---		
19C/19	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---	0	--	--	0	--	--	--	--	---			
1642C/833	3	2	20.00	20.00	1	0.00	0.00	--	-	---	2	0.00	0.00	1	0.00	0.00	--	-	o	---	2	0.00	0.00	1	0.00	0.00	--	-	o	---		
4537C/979	3	0	--	--	2	0.00	0.00	--	--	---	0	--	--	2	0.00	0.00	--	--	---	---	0	--	--	2	0.00	0.00	--	--	---			
Habitat Means			20.00	20.00		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-5.268, Page 1, December 15, 1994

Gigartinaeae 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																		
19C/19	1	0	--	--	0	--	--	-	-	---	0	--	--	0	--	--	-	-	---	0	--	--	0	--	--	-	-	---	0	--	--	-	-	---	---	
1642C/833	1	3	0.00	0.00	3	0.00	0.00	-	-	1.000	3	0.00	0.00	3	0.00	0.00	-	-	1.000	3	0.00	0.00	3	0.00	0.00	-	-	1.000	3	0.00	0.00	0.00	-	-	1.000	
4537C/979	1	0	--	--	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	-	-	o		0.00	0.00		0.00	0.00	-	-	o		0.00	0.00		0.00	0.00	-	-	o		0.00	0.00	-	-	o		
Fisher's			Power	---	Power-50%	---	P-value	---	-	---	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	---	-	---	Power	---	Power-50%	---	P-value	---	-	---	---
19C/19	2	0	--	--	0	--	--	-	-	---	0	--	--	0	--	--	-	-	---	0	--	--	0	--	--	-	-	---	0	--	--	-	-	---	---	
1642C/833	2	3	0.00	0.00	3	0.00	0.00	-	-	1.000	3	0.00	0.00	3	0.00	0.00	-	-	1.000	3	0.00	0.00	3	0.00	0.00	-	-	1.000	3	0.00	0.00	0.00	-	-	1.000	
4537C/979	2	0	--	--	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	-	-	o		0.00	0.00		0.00	0.00	-	-	o		0.00	0.00		0.00	0.00	-	-	o		0.00	0.00	-	-	o		
Fisher's			Power	---	Power-50%	---	P-value	---	-	---	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	---	-	---	Power	---	Power-50%	---	P-value	---	-	---	---
19C/19	3	0	--	--	0	--	--	-	-	---	0	--	--	0	--	--	-	-	---	0	--	--	0	--	--	-	-	---	0	--	--	-	-	---	---	
1642C/833	3	2	0.00	0.00	1	0.00	0.00	-	-	---	2	0.00	0.00	1	0.00	0.00	-	-	---	2	0.00	0.00	1	0.00	0.00	-	-	---	2	0.00	0.00	0.00	-	-	---	
4537C/979	3	0	--	--	2	0.00	0.00	-	-	---	0	--	--	2	0.00	0.00	-	-	---	0	--	--	2	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		0.00	0.00	-	-	o		
Fisher's			Power	---	Power-50%	---	P-value	---	-	---	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	---	-	---	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-5.268, Page 2, December 15, 1994

Table C-5.268. Algal Percent Cover. Rhodophyta. Prince William Sound. Exposed Rocky. July 1991. Cleared September 1989. (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	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	0	--	--	0	--	--	-	---	---			
1642C/833	1	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				
4537C/979	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	-	o	---		0.00	0.00	0.00	0.00	0.00	-	o	---		0.00	0.00	0.85	0.85	-	-	---	---				
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	---	---				
19C/19	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	0	--	--	0	--	--	-	---	---			
1642C/833	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	4.17	4.17	3	3.33	3.33	-	-	0.939				
4537C/979	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	-	o	---		0.00	0.00	0.00	0.00	0.00	-	o	---		4.20	4.20	1.65	1.65	-	-	---	---				
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	---	---				
19C/19	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	0	--	--	0	--	--	-	---	---			
1642C/833	3	2	0.00	0.00	1	0.00	0.00	-	o	---	2	0.00	0.00	1	0.00	0.00	-	o	---	2	20.00	20.00	1	0.00	0.00	-	-	---				
4537C/979	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	0.00	0.00	0.00	0.00	-	---	---		20.00	20.00	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-5.268. Page 3. December 15, 1994

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	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-	-	---	0	--	--	0	--	--	-	-	---	
1642C/833	1	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	3	0.00	0.00	3	0.00	0.00	0.00	-	o	1.000
4537C/979	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	0.00	-		---
Habitat Means			0.00	0.00	0.00	0.00	0.00		o			0.00	0.00	0.85	0.85		-				0.00	0.00	0.00	0.00	0.00		o		
Fisher's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	z
Stouffer's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	z
19C/19	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-	-	---	0	--	--	0	--	--	-	-	---	
1642C/833	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	0.83	0.83	-	-	0.423	
4537C/979	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	0.00	-		---
Habitat Means			0.00	0.00	0.00	0.00	0.00		o			0.00	0.00	0.00	0.00	0.00		o			0.00	0.00	0.40	0.40			-		
Fisher's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	z
Stouffer's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	z
19C/19	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-	-	---	0	--	--	0	--	--	-	-	---	
1642C/833	3	2	20.00	20.00	1	0.00	0.00	-	+	---	2	0.00	0.00	1	0.00	0.00	-	o	---	2	0.00	0.00	1	0.00	0.00	-	o	---	
4537C/979	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	0.00	-		---
Habitat Means			20.00	20.00	0.00	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-5.256. Page 4. December 15, 1994

Table C-5.268. Algal Percent Cover. Rhodophyta. Prince William Sound. Exposed Rocky. July 1991. Cleared September 1989. (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	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	--	---	0	--	--	0	--	--	--	--	---	
1642C/833	1	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		
4537C/979	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	--	o			0.00	0.00	0.00	0.00	0.00	--	o			0.00	0.00	0.00	0.00	0.00	--	o			
Fisher's	Power				Power-50%						Power			Power-50%						Power			Power-50%							
Stouffer's	Power				Power-50%						Power			Power-50%						Power			Power-50%							
19C/19	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---		
1642C/833	2	3	0.00	0.00	3	0.00	0.00	--	o	1.000	3	4.17	4.17	3	2.50	2.50	--	+	0.863	3	0.00	0.00	3	0.00	0.00	--	o	1.000		
4537C/979	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	--	o			4.20	4.20	1.25	1.25	--	+				0.00	0.00	0.00	0.00	0.00	--	o			
Fisher's	Power				Power-50%						Power			Power-50%						Power			Power-50%							
Stouffer's	Power				Power-50%						Power			Power-50%						Power			Power-50%							
19C/19	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---		
1642C/833	3	2	0.00	0.00	1	0.00	0.00	--	o	---	2	0.00	0.00	1	0.00	0.00	--	o	---	2	0.00	0.00	1	0.00	0.00	--	o	---		
4537C/979	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	0.00	0.00	0.00	0.00	--	--			0.00	0.00	0.00	0.00	0.00	--	--			
Fisher's	Power				Power-50%						Power			Power-50%						Power			Power-50%							
Stouffer's	Power				Power-50%						Power			Power-50%						Power			Power-50%							

(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.

Table C 5.268. Page 5. December 15, 1994

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	0	---	---	0	---	---	-	---	---	0	---	---	0	---	---	-	---	---	---	0	---	---	0	---	---	-	---	---
1642C/833	1	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	
4537C/979	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	---	o			0.00	0.00	0.00	0.00	0.00	---	o			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	Power
Stouffer's	Power		---		Power-50%		---	P-value	---		Power		---	Power-50%		---	P-value	---		Power		---	Power-50%		---	P-value	---		Power
19C/19	2	0	---	---	0	---	---	-	---	---	0	---	---	0	---	---	-	---	---	---	0	---	---	0	---	---	-	---	---
1642C/833	2	3	0.00	0.00	3	0.83	0.83	-	-	0.423	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	
4537C/979	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	0.40	0.40	0.40	---	-			0.00	0.00	0.00	0.40	0.40	---	-			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	Power
Stouffer's	Power		---		Power-50%		---	P-value	---		Power		---	Power-50%		---	P-value	---		Power		---	Power-50%		---	P-value	---		Power
19C/19	3	0	---	---	0	---	---	-	---	---	0	---	---	0	---	---	-	---	---	---	0	---	---	0	---	---	-	---	---
1642C/833	3	2	0.00	0.00	1	0.00	0.00	-	o	---	2	0.00	0.00	1	0.00	0.00	-	o	---	2	0.00	0.00	1	0.00	0.00	-	o	---	
4537C/979	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	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	---		Power
Stouffer's	Power		---		Power-50%		---	P-value	---		Power		---	Power-50%		---	P-value	---		Power		---	Power-50%		---	P-value	---		Power

x At least one site pair p-value < 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.268. Page 6. December 15, 1994

Table C-5.268. Algal Percent Cover, Rhodophyta, Prince William Sound, Exposed Rocky, July 1991, Cleared September 1989. (Continued.)

Site Pair	Polysiphonia/Pterosiphonia (A) (a)										Morphological Group: Crustose Reds										Crustose Coralline Algae (P)							
	Myd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	RR	N	O	RR	CV	n	P
1642C/833	1	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
4537C/979	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		o			0.00	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	---	
19C/19	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---	0	--	--	0	--	--	--	---
1642C/833	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
4537C/979	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		o			0.00	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	---	
19C/19	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---	0	--	--	0	--	--	--	---
1642C/833	3	2	0.00	0.00	1	0.00	--	-	o	---	2	0.00	0.00	1	0.00	--	-	o	---	2	0.00	0.00	1	0.00	--	-	o	---
4537C/979	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		0.00	0.00					0.00	0.00		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) 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-5.268, Page 7, December 15, 1994

Hildenbrandia sp. (P)											Petrocelis (P)																	
Site Pair	Myd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	RR	N	O	RR	CV	n	P
1642C/833	1	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									
4537C/979	1	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---									
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	---	z	Power	---		Power-50%		---	P-value	---	z
Stouffer's	Power		---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
19C/19	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---								
1642C/833	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									
4537C/979	2	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---									
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	---	z	Power	---		Power-50%		---	P-value	---	z
Stouffer's	Power		---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
19C/19	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---								
1642C/833	3	2	0.00	0.00	1	0.00	--	-	o	---	2	0.00	0.00	1	0.00	--	-	o	---									
4537C/979	3	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		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-5.268, Page 8, December 15, 1994

Table C-5.269. Algal Percent Cover. Invertebrates. Prince William Sound, Exposed Rocky, July 1991. Cleared September 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.

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	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---	0	--	--	0	--	--	--	--	---
1642C/833	1	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	0.00	-	o	1.000
4537C/979	1	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.83	0.83	--	--	---	---	0	--	--	3	0.00	0.00	--	--	---
Habitat Means			0.00	0.00	0.00	0.00	0.00	--	o	---	0.00	0.00	0.00	0.40	0.40	--	o	---	---	---	0.00	0.00	0.00	0.00	0.00	--	o	---	---
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	---	---	---	---
19C/19	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---	0	--	--	0	--	--	--	--	---
1642C/833	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.83	0.83	3	0.83	0.83	--	o	1.000	3	0.00	0.00	3	0.00	0.00	0.00	-	o	1.000
4537C/979	2	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.83	0.83	--	--	---	---	0	--	--	3	0.00	0.00	--	--	---
Habitat Means			0.00	0.00	0.00	0.00	0.00	--	o	---	0.80	0.80	0.80	0.80	--	o	---	---	---	---	0.00	0.00	0.00	0.00	0.00	--	o	---	---
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	---	---	---	---
19C/19	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---	0	--	--	0	--	--	--	--	---
1642C/833	3	2	0.00	0.00	1	0.00	--	--	o	---	2	0.00	0.00	1	0.00	--	--	o	---	2	0.00	0.00	1	0.00	0.00	0.00	--	o	---
4537C/979	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	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-5.269. Page 1. December 15, 1994

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	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---	0	--	--	0	--	--	--	--	---
1642C/833	1	3	0.00	0.00	3	5.00	5.00	--	--	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	0.00	--	o	1.000
4537C/979	1	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.00	0.00	--	--	---	---	0	--	--	3	0.00	0.00	0.00	--	---
Habitat Means			0.00	0.00	2.50	2.50	--	--	--	---	0.00	0.00	0.00	0.00	0.00	0.00	--	o	---	---	0.00	0.00	0.00	0.00	0.00	--	o	---	---
Fisher's			Power	---	Power-50%	---	P-value	---	---	---	Power	---	Power-50%	---	P-value	---	---	---	---	Power	---	Power-50%	---	P-value	---	P-value	---	---	---
Stouffer's			Power	---	Power-50%	---	P-value	---	---	---	Power	---	Power-50%	---	P-value	---	---	---	---	Power	---	Power-50%	---	P-value	---	P-value	---	---	---
19C/19	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---	0	--	--	0	--	--	--	--	---
1642C/833	2	3	0.83	0.83	3	0.00	0.00	--	--	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	0.00	--	o	1.000
4537C/979	2	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.00	0.00	--	--	---	---	0	--	--	3	0.00	0.00	0.00	--	---
Habitat Means			0.80	0.80	0.00	0.00	0.00	--	+	---	0.00	0.00	0.00	0.00	0.00	0.00	--	o	---	---	0.00	0.00	0.00	0.00	0.00	--	o	---	---
Fisher's			Power	---	Power-50%	---	P-value	---	---	---	Power	---	Power-50%	---	P-value	---	---	---	---	Power	---	Power-50%	---	P-value	---	P-value	---	---	---
Stouffer's			Power	---	Power-50%	---	P-value	---	---	---	Power	---	Power-50%	---	P-value	---	---	---	---	Power	---	Power-50%	---	P-value	---	P-value	---	---	---
19C/19	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---	0	--	--	0	--	--	--	--	---
1642C/833	3	2	0.00	0.00	1	0.00	--	--	o	---	2	0.00	0.00	1	0.00	0.00	--	o	---	2	0.00	0.00	1	0.00	0.00	0.00	--	o	---
4537C/979	3	0	--	--	2	0.00	0.00	--	--	---	0	--	--	2	0.00	0.00	0.00	--	---	0	--	--	2	0.00	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	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	---	P-value	---	---	---
Stouffer's			Power	---	Power-50%	---	P-value	---	---	---	Power	---	Power-50%	---	P-value	---	---	---	---	Power	---	Power-50%	---	P-value	---	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-5.269. Page 2. December 15, 1994

Table C-5.269. Algal Percent Cover. Invertebrates. Prince William Sound. Exposed Rocky. July 1991. Cleared September 1989. (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	0	--	--	0	--	--	-	-	---																		
1642C/833	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000																		
4537C/979	1	0	--	--	3	0.00	0.00	-	-	---																		
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			
19C/19	2	0	--	--	0	--	--	-	-	---																		
1642C/833	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000																		
4537C/979	2	0	--	--	3	0.00	0.00	-	-	---																		
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			
19C/19	3	0	--	--	0	--	--	-	-	---																		
1642C/833	3	2	0.00	0.00	1	0.00	--	-	o	---																		
4537C/979	3	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			

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

Table C-5.270. Algal Percent Cover, Substrates, Prince William Sound, Exposed Rocky, July 1991, Cleared September 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	N	Rock							Mud							Sand													
			C	SE	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	0	--	--	0	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--		
1642C/833	1	3	100.00	0.00	3	93.33	6.67	-	+	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	0.00	-	o	1.000	
4537C/979	1	0	--	--	3	99.17	0.83	--	--	--	0	--	--	3	0.00	0.00	--	--	--	0	--	--	3	0.00	0.00	0.00	--	--	--	
Habitat Means			100.00	0.00		96.25	3.75	--	+	--		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	---		---	Power	---		Power-50%	---	P-value	---		---	Power	---		Power-50%	---	P-value	---		---		
Stouffer's	Power		---		Power-50%	---	P-value	---		---	Power	---		Power-50%	---	P-value	---		---	Power	---		Power-50%	---	P-value	---		---		
19C/19	2	0	--	--	0	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--		
1642C/833	2	3	73.33	17.64	3	50.83	25.43	-	+	0.606	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	0.00	-	o	1.000	
4537C/979	2	0	--	--	3	95.00	3.82	--	--	--	0	--	--	3	0.00	0.00	--	--	--	0	--	--	3	0.00	0.00	0.00	--	--	--	
Habitat Means			73.30	17.60		72.90	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	---		---	Power	---		Power-50%	---	P-value	---		---	Power	---		Power-50%	---	P-value	---		---		
Stouffer's	Power		---		Power-50%	---	P-value	---		---	Power	---		Power-50%	---	P-value	---		---	Power	---		Power-50%	---	P-value	---		---		
19C/19	3	0	--	--	0	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--		
1642C/833	3	2	60.00	17.50	1	0.00	--	--	-	---	2	0.00	0.00	1	0.00	--	--	-	o	---	2	0.00	0.00	1	0.00	--	--	-	o	---
4537C/979	3	0	--	--	2	51.25	48.75	--	--	---	0	--	--	2	0.00	0.00	--	--	---	0	--	--	2	0.00	0.00	0.00	--	--	---	
Habitat Means			60.00	17.50		25.65	48.80	--	--	---		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.

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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	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---
1642C/833	1	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	0.00	--	o	1.000
4537C/979	1	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.00	0.00	0.00	--	--	---
Habitat Means			0.00	0.00	0.00	0.00	0.00	--	o	---		0.00	0.00		0.00	0.00	--	o	---		0.00	0.00		0.00	0.00	0.00	--	o	---
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	---		---	---
19C/19	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---
1642C/833	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	0.00	--	o	1.000
4537C/979	2	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.00	0.00	0.00	--	--	---
Habitat Means			0.00	0.00	0.00	0.00	0.00	--	o	---		0.00	0.00		0.00	0.00	--	o	---		0.00	0.00		0.00	0.00	0.00	--	o	---
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	---		---	---
19C/19	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---
1642C/833	3	2	0.00	0.00	1	0.00	--	--	o	---	2	0.00	0.00	1	0.00	--	--	o	---	2	0.00	0.00	1	0.00	--	--	o	---	
4537C/979	3	0	--	--	2	0.00	0.00	--	--	---	0	--	--	2	0.00	0.00	--	--	---	0	--	--	2	0.00	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	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-5.270, Page 2, December 15, 1994

Table C-5.270. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Exposed Rocky. July 1991. Cleared September 1989. (Continued.)

Site Pair	Mvd	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	
19C/19	1	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---										
1642C/833	1	3	0.00	0.00	3	0.00	0.00	--	o	1.000	3	100.00	0.00	3	93.33	6.67	--	+	0.423										
4537C/979	1	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	99.17	0.83	--	--	---										
Habitat Means			0.00	0.00		0.00	0.00	--	o			100.00	0.00		96.25	3.75	--	+											
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	---			
19C/19	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---										
1642C/833	2	3	0.00	0.00	3	0.00	0.00	--	o	1.000	3	73.33	17.64	3	50.83	25.43	--	+	0.606										
4537C/979	2	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	95.00	3.82	--	--	---										
Habitat Means			0.00	0.00		0.00	0.00	--	o			73.30	17.60		72.90	14.60	--	+											
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	---			
19C/19	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---										
1642C/833	3	2	0.00	0.00	1	0.00	--	--	o	---	2	60.00	17.50	1	0.00	--	--	--	---										
4537C/979	3	0	--	--	2	0.00	0.00	--	--	---	0	--	--	2	51.25	48.75	--	--	---										
Habitat Means			0.00	0.00		0.00	0.00	--	--			60.00	17.50		25.65	48.80	--	--											
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-5.270. Page 3. December 15, 1994



**Table C-5.271. Algal Percent Cover, Totals and Seasonal Groups, Cook Inlet/Kenai, Sheltered Rocky, June 1991, Cleared September 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	
14.1C/14.1	1	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	
14.2C/14.2	1	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	
62762C/50983	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.67	0.33	3	0.00	0.00	-	-	0.184	3	2.50	1.44	3	0.00	0.00	-	+	0.196	
Habitat Means			0.00	0.00	0.00	0.00	0.00	o				0.67	0.33	0.00	0.00	0.00	-				2.50	1.40	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	---		
14.1C/14.1	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	
14.2C/14.2	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	
62762C/50983	2	2	0.23	0.23	3	0.14	0.08	-	+	0.681	2	3.00	2.00	3	1.67	0.33	-	+	0.453	2	71.25	13.75	3	30.83	19.70	-	-	0.231	
Habitat Means			0.23	0.23	0.14	0.08	0.08	-	+			3.00	2.00	1.67	0.33	0.33	-	+			71.30	13.80	30.80	19.70	19.70	-	-		
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	---		
14.1C/14.1	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	
14.2C/14.2	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	
62762C/50983	3	1	0.77	--	2	0.22	0.22	-	-	---	1	8.00	--	2	2.00	1.00	-	+	---	1	92.50	--	2	48.75	26.25	-	+	---	
Habitat Means			0.77	--	0.22	0.22	0.22	-	-			8.00	--	2	2.00	1.00	-	+			92.50	--	48.80	26.30	26.30	-	+		
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	---		

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

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

Table C-5.271, Page 1, December 15, 1994

Total Invertebrates											Rock								Perennials (P)											
S	t	P	I	N	C	O	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	0	--	--	0	--	--	--	--	-	---	0	--	--	0	--	--	--	-	---	0	--	--	0	--	--	--	-	---	---
14.2C/14.2	1	0	--	--	0	--	--	--	--	-	---	0	--	--	0	--	--	--	-	---	0	--	--	0	--	--	--	-	---	---
62762C/50983	1	3	40.00	30.14	3	1.67	1.67	-	+	0.150	3	37.50	31.46	3	98.33	1.67	-	-	0.151	3	2.50	1.44	3	0.00	0.00	-	-	0.196	---	
Habitat Means			40.00	30.10	1.70	1.70	-	+				37.50	31.50	98.30	1.70	-						2.50	1.40	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	---			
14.1C/14.1	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---	
14.2C/14.2	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---	
62762C/50983	2	2	5.00	2.50	3	16.67	10.14	-	-	0.644	2	23.75	16.25	3	52.50	13.77	-	-	0.260	2	60.00	2.50	3	28.33	21.28	-	+	0.338	---	
Habitat Means			5.00	2.50	16.70	10.10	-	-				23.80	16.30	52.50	13.80	-						60.00	2.50	28.30	21.30	-				
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	---			
14.1C/14.1	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---	
14.2C/14.2	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---	
62762C/50983	3	1	7.50	--	2	11.75	1.25	-	-	---	1	0.00	--	2	37.50	25.00	-	-	---	1	22.50	--	2	40.00	35.00	-	-	---	---	
Habitat Means			7.50	--	11.80	1.30	-	-				0.00	--	37.50	25.00	-						22.50	--	40.00	35.00	-				
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	---			

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

Table C-5.271, Page 2, December 15, 1994

Table C-5.271. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Cleared September 1989. (Continued.)

Site Pair	Mvd	N	Annuals (A)							Ephemerals (AE)							N	C	SE	N	O	SE	CV	D	P		
			C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE										CV	D
14.1C/14.1	1	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	
14.2C/14.2	1	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	
62762C/50983	1	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		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value	
Stouffer's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value	
14.1C/14.1	2	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	
14.2C/14.2	2	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	
62762C/50983	2	2	11.25	11.25	3	2.50	2.50	-	+	0.532	2	0.00	0.00	3	1.67	1.67	-	-	0.423								
Habitat Means			11.30	11.30		2.50	2.50		-			0.00	0.00		1.70	1.70		-									
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	
14.1C/14.1	3	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	
14.2C/14.2	3	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	
62762C/50983	3	1	70.00	--	2	8.75	8.75	-	+	---	1	17.50	--	2	0.00	0.00	-	+	---								
Habitat Means			70.00	--		8.80	8.80					17.50	--		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	

x At least one site pair p-value < 0.105 in opposite direction of overall tests.  
y Direction of difference between habitat means is different than direction of overall tests.  
z Only one site pair.

Table C-5.271. Page 3. December 15, 1994

**Table C-5.272. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Cleared September 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 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	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---		0	--	--	0	--	--	--	--	---
14.2C/14.2	1	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---		0	--	--	0	--	--	--	--	---
62762C/50983	1	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	0.00	--	o			0.00	0.00	0.00	0.00	0.00	--	o				0.00	0.00	0.00	0.00	0.00	--	o	
Fisher's	Power		---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---
Stouffer's	Power		---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---
14.1C/14.1	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---		0	--	--	0	--	--	--	--	---
14.2C/14.2	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---		0	--	--	0	--	--	--	--	---
62762C/50983	2	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	0.00	--	o			0.00	0.00	0.00	0.00	0.00	--	o				0.00	0.00	0.00	0.00	0.00	--	o	
Fisher's	Power		---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---
Stouffer's	Power		---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---
14.1C/14.1	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---		0	--	--	0	--	--	--	--	---
14.2C/14.2	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---		0	--	--	0	--	--	--	--	---
62762C/50983	3	1	17.50	--	2	0.00	0.00	--	+	---	1	17.50	--	2	0.00	0.00	--	+	---		1	17.50	--	2	0.00	0.00	--	+	---
Habitat Means			17.50	--	0.00	0.00	0.00	--	+			17.50	--	0.00	0.00	0.00	--	+				17.50	--	0.00	0.00	0.00	--	+	
Fisher's	Power		---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---
Stouffer's	Power		---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---

(a) *Kormannia*, *Monostroma*, *Ulva* and *Ulvaria*.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.272. Page 1, December 15, 1994

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	N	C	SE	N	O	SE	CV	D	P			
14.1C/14.1	1	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	--	---	0	--	--	0	--	--	--	--	--	---	0	--	--	0	--	--	--	---		
14.2C/14.2	1	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	--	---	0	--	--	0	--	--	--	--	--	---	0	--	--	0	--	--	--	---		
62762C/50983	1	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	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	0.00	--	o			0.00	0.00	0.00	0.00	0.00	--	o			0.00	0.00	0.00	0.00	0.00	0.00	--	o			0.00	0.00	0.00	--	o					
Fisher's	Power		---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	---
Stouffer's	Power		---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	---
14.1C/14.1	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	---			
14.2C/14.2	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	---			
62762C/50983	2	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	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	0.00	--	o			0.00	0.00	0.00	0.00	0.00	--	o			0.00	0.00	0.00	0.00	0.00	0.00	--	o			0.00	0.00	0.00	--	o					
Fisher's	Power		---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	---
Stouffer's	Power		---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	---
14.1C/14.1	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	---			
14.2C/14.2	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	---			
62762C/50983	3	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	0.00	--	o	---	1	0.00	--	2	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	0.00	--	o			0.00	--	0.00	0.00	--	o				
Fisher's	Power		---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	---
Stouffer's	Power		---	---	Power-50%	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	---	Power	---	---	Power-50%	---	---	---	---	---	---

(a) Genera not separated.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.272. Page 2, December 15, 1994

Table C-5.272. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Cleared September 1989. (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	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---
14.2C/14.2	1	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---
62762C/50983	1	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	0.00	--	o	1.000
Habitat Means			0.00	0.00	0.00	0.00	0.00	--	o			0.00	0.00	0.00	0.00	0.00	--	o			0.00	0.00	0.00	0.00	0.00	--	o		
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	---		
14.1C/14.1	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---
14.2C/14.2	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---
62762C/50983	2	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	0.00	--	o	1.000
Habitat Means			0.00	0.00	0.00	0.00	0.00	--	o			0.00	0.00	0.00	0.00	0.00	--	o			0.00	0.00	0.00	0.00	0.00	--	o		
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	---		
14.1C/14.1	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---
14.2C/14.2	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---
62762C/50983	3	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	0.00	--	o	---
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 5.272, Page 3, December 15, 1994

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	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--									
14.2C/14.2	1	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--									
62762C/50983	1	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	0.00	--	o			0.00	0.00	0.00	0.00	0.00	--	o											
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		---	
14.1C/14.1	2	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--									
14.2C/14.2	2	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--									
62762C/50983	2	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	0.00	--	o			0.00	0.00	0.00	0.00	0.00	--	o											
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		---	
14.1C/14.1	3	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--									
14.2C/14.2	3	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--									
62762C/50983	3	1	0.00	--	2	0.00	0.00	--	o	---	1	0.00	--	2	0.00	0.00	--	o	---										
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-5.272, Page 4, December 15, 1994

Table C-5.273. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Cleared September 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										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	0	--	--	0	--	--	-	--	--	0	--	--	0	--	--	-	--	--	--	0	--	--	0	--	--	-	--	--
14.2C/14.2	1	0	--	--	0	--	--	-	--	--	0	--	--	0	--	--	-	--	--	--	0	--	--	0	--	--	-	--	--
62762C/50983	1	3	1.67	1.67	3	0.00	0.00	-	+	0.423	3	1.67	1.67	3	0.00	0.00	-	+	0.423	3	0.00	0.00	3	0.00	0.00	-	o	1.000	
Habitat Means			1.70	1.70		0.00	0.00		+			1.70	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	---		
14.1C/14.1	2	0	--	--	0	--	--	-	--	--	0	--	--	0	--	--	-	--	--	--	0	--	--	0	--	--	-	--	--
14.2C/14.2	2	0	--	--	0	--	--	-	--	--	0	--	--	0	--	--	-	--	--	--	0	--	--	0	--	--	-	--	--
62762C/50983	2	2	57.50	0.00	3	27.50	17.74	-	+	0.233	2	57.50	0.00	3	25.83	18.84	-	+	0.249	2	0.00	0.00	3	0.00	0.00	-	o	1.000	
Habitat Means			57.50	0.00		27.50	17.70		+			57.50	0.00		25.80	18.80		+			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	---		
14.1C/14.1	3	0	--	--	0	--	--	-	--	--	0	--	--	0	--	--	-	--	--	--	0	--	--	0	--	--	-	--	--
14.2C/14.2	3	0	--	--	0	--	--	-	--	--	0	--	--	0	--	--	-	--	--	--	0	--	--	0	--	--	-	--	--
62762C/50983	3	1	45.00	--	2	40.00	35.00	-	-	---	1	45.00	--	2	40.00	35.00	-	-	---	1	30.00	--	2	0.00	0.00	0.00	-	o	---
Habitat Means			45.00	--		40.00	35.00		-			45.00	--		40.00	35.00		-			30.00	--		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-5.273. Page 1. December 15, 1994

Total <i>Fucus gardneri</i> (P)										Adult <i>Fucus gardneri</i> (P) (> 2cm)										Juvenile <i>Fucus gardneri</i> (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	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	--	---	0	--	--	0	--	--	--	--	---
14.2C/14.2	1	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	--	---	0	--	--	0	--	--	--	--	---
62762C/50983	1	3	1.67	1.67	3	0.00	0.00	--	+	0.423	3	0.00	0.00	3	0.00	0.00	--	o	1.000	3	1.67	1.67	3	0.00	0.00	--	+	0.423	
Habitat Means			1.70	1.70		0.00	0.00		+			0.00	0.00		0.00	0.00		o			1.70	1.70		0.00	0.00		+		
Fisher's Stouffer's	Power		---		Power-50%		---	P-value	---	z	Power	---		Power-50%		---	P-value	---	z	Power	---		Power-50%		---	P-value	---	z	
14.1C/14.1	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	--	---	0	--	--	0	--	--	--	--	---
14.2C/14.2	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	--	---	0	--	--	0	--	--	--	--	---
62762C/50983	2	2	57.50	0.00	3	25.83	18.84	--	-	0.249	2	57.50	0.00	3	25.83	18.84	--	-	0.249	2	0.00	0.00	3	0.00	0.00	--	o	1.000	
Habitat Means			57.50	0.00		25.80	18.80		-			57.50	0.00		25.80	18.80		-			0.00	0.00		0.00	0.00		o		
Fisher's Stouffer's	Power		---		Power-50%		---	P-value	---	z	Power	---		Power-50%		---	P-value	---	z	Power	---		Power-50%		---	P-value	---	z	
14.1C/14.1	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	--	---	0	--	--	0	--	--	--	--	---
14.2C/14.2	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	--	---	0	--	--	0	--	--	--	--	---
62762C/50983	3	1	15.00	--	2	40.00	35.00	--	-	---	1	15.00	--	2	40.00	35.00	--	-	---	1	0.00	--	2	0.00	0.00	--	o	---	
Habitat Means			15.00	--		40.00	35.00		-			15.00	--		40.00	35.00		-			0.00	--		0.00	0.00		o		
Fisher's Stouffer's	Power		---		Power-50%		---	P-value	---	z	Power	---		Power-50%		---	P-value	---	z	Power	---		Power-50%		---	P-value	---	z	

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

Table C-5.273. Page 2. December 15, 1994

Table C-5.273. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Cleared September 1989. (Continued.)

Fucus Stipes (P) (a)											Petalonia/Punctaria (AE) (b)									Morphological Group: Coarse 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			
14.1C/14.1	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	0	--	--	0	--	--	-	---	---		
14.2C/14.2	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	0	--	--	0	--	--	-	---	---		
62762C/50983	1	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	---				
14.1C/14.1	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	0	--	--	0	--	--	-	---	---		
14.2C/14.2	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	0	--	--	0	--	--	-	---	---		
62762C/50983	2	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	---	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	---				
14.1C/14.1	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	0	--	--	0	--	--	-	---	---		
14.2C/14.2	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	0	--	--	0	--	--	-	---	---		
62762C/50983	3	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	---			
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	---	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.

(b) Genera not separated.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.273. Page 3. December 15, 1994

Analipus japonicus (P)											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		
14.1C/14.1	1	0	--	--	0	--	--	-	---	0	--	--	0	--	--	--	-	---	0	--	0	--	--	0	--	--	-	---		
14.2C/14.2	1	0	--	--	0	--	--	-	---	0	--	--	0	--	--	--	-	---	0	--	0	--	--	0	--	--	-	---		
62762C/50983	1	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	---			
14.1C/14.1	2	0	--	--	0	--	--	-	---	0	--	--	0	--	--	--	-	---	0	--	0	--	--	0	--	--	-	---		
14.2C/14.2	2	0	--	--	0	--	--	-	---	0	--	--	0	--	--	--	-	---	0	--	0	--	--	0	--	--	-	---		
62762C/50983	2	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	1.67	1.67	-	x	0.423		
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		1.70	1.70		-			
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	---			
14.1C/14.1	3	0	--	--	0	--	--	-	---	0	--	--	0	--	--	--	-	---	0	--	0	--	--	0	--	--	-	---		
14.2C/14.2	3	0	--	--	0	--	--	-	---	0	--	--	0	--	--	--	-	---	0	--	0	--	--	0	--	--	-	---		
62762C/50983	3	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	---		
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	---	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 &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.273. Page 4. December 15, 1994

Table C-5.273. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Cleared September 1989. (Continued.)

Fine Filamentous Browns (AE) (b)											Morphological Group: Saccate Browns								Leathesia/Colpomenia (A) (a)																	
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								
14.2C/14.2	1	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--					
62762C/50983	1	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	3	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		0.00	0.00	---					
Fisher's	Power		---		Power-50%	---	P-value	---		---	Power	---		Power-50%	---	P-value	---		---	Power	---		Power-50%	---	P-value	---		---	Power	---		Power-50%	---	P-value	---	z
Stouffer's	Power		---		Power-50%	---	P-value	---		---	Power	---		Power-50%	---	P-value	---		---	Power	---		Power-50%	---	P-value	---		---	Power	---		Power-50%	---	P-value	---	z
14.1C/14.1	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	--	--	---		
14.2C/14.2	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	--	--	---		
62762C/50983	2	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	2	0.00	0.00	0.00	---			
Habitat Means			0.00	0.00		1.70	1.70		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o		0.00	0.00	---					
Fisher's	Power		---		Power-50%	---	P-value	---		---	Power	---		Power-50%	---	P-value	---		---	Power	---		Power-50%	---	P-value	---		---	Power	---		Power-50%	---	P-value	---	z
Stouffer's	Power		---		Power-50%	---	P-value	---		---	Power	---		Power-50%	---	P-value	---		---	Power	---		Power-50%	---	P-value	---		---	Power	---		Power-50%	---	P-value	---	z
14.1C/14.1	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	--	--	---		
14.2C/14.2	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	--	--	---		
62762C/50983	3	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	---	1	0.00	--	2	0.00	0.00	---	
Habitat Means			0.00	--		0.00	0.00	--	o			0.00	--		0.00	0.00	--	o			0.00	--		0.00	0.00	--	o			0.00	0.00	---				
Fisher's	Power		---		Power-50%	---	P-value	---		---	Power	---		Power-50%	---	P-value	---		---	Power	---		Power-50%	---	P-value	---		---	Power	---		Power-50%	---	P-value	---	z
Stouffer's	Power		---		Power-50%	---	P-value	---		---	Power	---		Power-50%	---	P-value	---		---	Power	---		Power-50%	---	P-value	---		---	Power	---		Power-50%	---	P-value	---	z

(a) Leathesia, Colpomenia and Pilayella.

(b) Genera not separated.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.273. Page 5. December 15, 1994

Soranthera ulvoidea (A)											Morphological Group: Crustose Browns										Ralfsia/Petroderma (P) (a)															
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								
14.2C/14.2	1	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	--	--	---		
62762C/50983	1	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	3	0.00	0.00	0.00	--	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o		0.00	0.00		o				
Fisher's	Power		---		Power-50%	---	P-value	---		---	Power	---		Power-50%	---	P-value	---		---	Power	---		Power-50%	---	P-value	---		---	Power	---		Power-50%	---	P-value	---	z
Stouffer's	Power		---		Power-50%	---	P-value	---		---	Power	---		Power-50%	---	P-value	---		---	Power	---		Power-50%	---	P-value	---		---	Power	---		Power-50%	---	P-value	---	z
14.1C/14.1	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	--	--	---		
14.2C/14.2	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	--	--	---		
62762C/50983	2	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	2	0.00	0.00	0.00	--	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o		0.00	0.00		o				
Fisher's	Power		---		Power-50%	---	P-value	---		---	Power	---		Power-50%	---	P-value	---		---	Power	---		Power-50%	---	P-value	---		---	Power	---		Power-50%	---	P-value	---	z
Stouffer's	Power		---		Power-50%	---	P-value	---		---	Power	---		Power-50%	---	P-value	---		---	Power	---		Power-50%	---	P-value	---		---	Power	---		Power-50%	---	P-value	---	z
14.1C/14.1	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	--	--	---		
14.2C/14.2	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	--	--	---		
62762C/50983	3	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	---	1	0.00	--	2	0.00	0.00	---	
Habitat Means			0.00	--		0.00	0.00	--	o			0.00	--		0.00	0.00	--	o			0.00	--		0.00	0.00	--	o			0.00	0.00		o			
Fisher's	Power		---		Power-50%	---	P-value	---		---	Power	---		Power-50%	---	P-value	---		---	Power	---		Power-50%	---	P-value	---		---	Power	---		Power-50%	---	P-value	---	z
Stouffer's	Power		---		Power-50%	---	P-value	---		---	Power	---		Power-50%	---	P-value	---		---	Power	---		Power-50%	---	P-value	---		---	Power	---		Power-50%	---	P-value	---	z

(a) Genera not separated.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.273. Page 6. December 15, 1994

Table C-5.274. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Cleared September 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. (AB)									
Site Pair	MVD	N	C	SE	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	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---		
62762C/50983	1	3	0.83	0.83	3	0.00	0.00	-	+	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		
Habitat Means			0.80	0.80		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	---			
14.1C/14.1	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---		
14.2C/14.2	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---		
62762C/50983	2	2	13.75	13.75	3	3.33	2.20	-	+	0.610	2	3.75	3.75	3	0.00	0.00	-	+	0.500	2	0.00	0.00	3	0.00	0.00	-	o	1.000		
Habitat Means			13.80	13.80		3.30	2.20		+			3.80	3.80		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	---			
14.1C/14.1	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---		
14.2C/14.2	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---		
62762C/50983	3	1	30.00	--	2	8.75	8.75	-	+	---	1	5.00	--	2	0.00	0.00	-	+	---	1	0.00	--	2	0.00	0.00	-	o	---		
Habitat Means			30.00	--		8.80	8.80					5.00	--		0.00	0.00					0.00	--		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 TASS.  
y Direction of difference between habitat means is different than direction of overall tests.  
z Only one site pair.

Table C-5.274. Page 1. December 15, 1994

Gigartinaeae 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	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
14.2C/14.2	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
62762C/50983	1	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	---	
14.1C/14.1	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
14.2C/14.2	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
62762C/50983	2	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	3.75	3.75	3	0.00	0.00	-	+	0.500	2	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			3.80	3.80		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	---	
14.1C/14.1	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
14.2C/14.2	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
62762C/50983	3	1	0.00	--	2	0.00	0.00	-	o	---	1	2.50	--	2	0.00	0.00	-	+	---	1	0.00	--	2	0.00	0.00	-	o	---
Habitat Means			0.00	--		0.00	0.00					2.50	--		0.00	0.00		+			0.00	--		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) Ulvaceae, Rhodospirillum, Rhodocarpus 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-5.274. Page 2. December 15, 1994



Table C-5.274. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Cleared September 1989. (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	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---	0	--	--	0	--	--	--	--	---			
14.2C/14.2	1	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---	0	--	--	0	--	--	--	--	---			
62762C/50983	1	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	0.83	0.83	3	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			0.80	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	---					
14.1C/14.1	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---	0	--	--	0	--	--	--	--	---			
14.2C/14.2	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---	0	--	--	0	--	--	--	--	---			
62762C/50983	2	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	2.50	2.50	3	3.33	2.20	--	0.823					
Habitat Means			0.00	0.00		0.00	0.00	--	o			0.00	0.00		0.00	0.00	--	o			2.50	2.50		3.30	2.20	--						
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	---					
14.1C/14.1	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---	0	--	--	0	--	--	--	--	---			
14.2C/14.2	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---	0	--	--	0	--	--	--	--	---			
62762C/50983	3	1	0.00	--	2	0.00	0.00	--	o	---	1	0.00	--	2	0.00	0.00	--	o	---	1	10.00	--	2	6.25	6.25	--	+	---				
Habitat Means			0.00	--		0.00	0.00	--	o			0.00	--		0.00	0.00	--	o			10.00	--		6.30	6.30	--						
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.  
y Direction of difference between habitat means is different than direction of overall tests.  
z Only one site pair.

Table C-5.274. Page 3. December 15, 1994

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	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	0	--	--	0	--	--	-	---	---			
14.2C/14.2	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	0	--	--	0	--	--	-	---	---			
62762C/50983	1	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	0.83	0.83	3	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			0.80	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	---					
14.1C/14.1	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	0	--	--	0	--	--	-	---	---			
14.2C/14.2	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	0	--	--	0	--	--	-	---	---			
62762C/50983	2	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	2.50	2.50	-	-	0.423				
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		2.50	2.50		-					
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	---					
14.1C/14.1	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	0	--	--	0	--	--	-	---	---			
14.2C/14.2	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	0	--	--	0	--	--	-	---	---			
62762C/50983	3	1	0.00	--	2	0.00	0.00	-	o	---	1	5.00	--	2	0.00	0.00	-	+	---	1	0.00	--	2	0.00	0.00	0.00	-	o	---			
Habitat Means			0.00	--		0.00	0.00		o			5.00	--		0.00	0.00		+			0.00	--		0.00	0.00		o					
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-5.274. Page 4. December 15, 1994

Table C-5.274. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Cleared September 1989. (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	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	0	--	--	0	--	--	-	---	0	--	---	
14.2C/14.2	1	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	0	--	--	0	--	--	-	---	0	--	---	
62762C/50983	1	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	Power	---		Power-50%	---	z
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	
14.1C/14.1	2	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	0	--	--	0	--	--	-	---	0	--	---	
14.2C/14.2	2	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	0	--	--	0	--	--	-	---	0	--	---	
62762C/50983	2	2	0.00	0.00	3	0.83	0.83	-	-	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			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	Power	---		Power-50%	---	z
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	
14.1C/14.1	3	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	0	--	--	0	--	--	-	---	0	--	---	
14.2C/14.2	3	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	0	--	--	0	--	--	-	---	0	--	---	
62762C/50983	3	1	0.00	--	2	6.25	6.25	-	-	---	1	0.00	--	2	0.00	0.00	-	o	---	1	0.00	--	2	0.00	0.00	-	o	---	---		
Habitat Means			0.00	--		6.30	6.30		-			0.00	--		0.00	0.00		o			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	Power	---		Power-50%	---	z
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		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 5.274. Page 5. December 15, 1

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					
14.2C/14.2	1	0	--	--	0	--	--	-	-	---	0	--	--	0	--	--	-	-	---	0	--	--	0	--	--	-	-	---					
62762C/50983	1	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	Power	---		Power-50%	---	P-value	---	z
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---	
14.1C/14.1	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---					
14.2C/14.2	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---					
62762C/50983	2	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	3.75	3.75	3	0.00	0.00	-	+	0.500					
Habitat Means			2.50	2.50		0.00	0.00		-			0.00	0.00		0.00	0.00		o			3.80	3.80		0.00	0.00		+						
Fisher's	Power		---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---	
14.1C/14.1	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---					
14.2C/14.2	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---					
62762C/50983	3	1	5.00	--	2	0.00	0.00	-	-	---	1	0.00	--	2	0.00	0.00	-	o	---	1	15.00	--	2	0.00	0.00	-	+	---					
Habitat Means			5.00	--		0.00	0.00		-			0.00	--		0.00	0.00		o			15.00	--		0.00	0.00		+						
Fisher's	Power		---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z
Stouffer's	Power		---		Power-50%	---	P-value	---		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 5.274. Page 6. December 15, 1994

Table C-5.274. Algal Percent Cover, Rhodophyta, Cook Inlet/Kenai, Sheltered Rocky, June 1991, Cleared September 1989. (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	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	0	--	--	0	--	--	-	---	---			
14.2C/14.2	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	0	--	--	0	--	--	-	---	---			
62762C/50983	1	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	---						
14.1C/14.1	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	0	--	--	0	--	--	-	---	---			
14.2C/14.2	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	0	--	--	0	--	--	-	---	---			
62762C/50983	2	2	3.75	3.75	3	0.00	0.00	-	+	0.500	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	3.75	3.75	3	0.00	0.00	-	+	0.500				
Habitat Means			3.80	3.80		0.00	0.00		+			0.00	0.00		0.00	0.00		o			3.80	3.80		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	---						
14.1C/14.1	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	0	--	--	0	--	--	-	---	---			
14.2C/14.2	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	0	--	--	0	--	--	-	---	---			
62762C/50983	3	1	15.00	--	2	0.00	0.00	-	-	---	1	0.00	--	2	0.00	0.00	-	o	---	1	0.00	--	2	2.50	2.50	-	-	---				
Habitat Means			15.00	--		0.00	0.00					0.00	--		0.00	0.00					0.00	--		2.50	2.50							
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.

Table C-5.274, Page 7, December 15, 1994

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	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---		0	--	--	0	--	--	--	--	---			
14.2C/14.2	1	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---		0	--	--	0	--	--	--	--	---			
62762C/50983	1	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	---					
14.1C/14.1	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---		0	--	--	0	--	--	--	--	---			
14.2C/14.2	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---		0	--	--	0	--	--	--	--	---			
62762C/50983	2	2	0.00	0.00	3	0.00	0.00	--	o	1.000	2	3.75	3.75	3	0.00	0.00	--	+	0.500		2	0.00	0.00	3	0.00	0.00	--	o	1.000			
Habitat Means			0.00	0.00		0.00	0.00		o			3.80	3.80		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	---					
14.1C/14.1	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---		0	--	--	0	--	--	--	--	---			
14.2C/14.2	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---		0	--	--	0	--	--	--	--	---			
62762C/50983	3	1	0.00	--	2	0.00	0.00	--	o	---	1	0.00	--	2	2.50	2.50	--	-	---		1	0.00	--	2	0.00	0.00	--	o	---			
Habitat Means			0.00	--		0.00	0.00					0.00	--		2.50	2.50					0.00	--		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) 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-5.274, Page 8, December 15, 1994

Table C-5.274. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Cleared September 1989. (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	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	--	---	0	--	--	0	--	--	--	--	---
14.2C/14.2	1	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	--	---	0	--	--	0	--	--	--	--	---
62762C/50983	1	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	0.00	--	o			0.00	0.00	0.00	0.00	0.00	--	o			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	---			
14.1C/14.1	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	--	---	0	--	--	0	--	--	--	--	---
14.2C/14.2	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	--	---	0	--	--	0	--	--	--	--	---
62762C/50983	2	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	0.00	--	o			0.00	0.00	0.00	0.00	0.00	--	o			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	---			
14.1C/14.1	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	--	---	0	--	--	0	--	--	--	--	---
14.2C/14.2	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	--	---	0	--	--	0	--	--	--	--	---
62762C/50983	3	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	---	
Habitat Means			0.00	--	0.00	0.00	0.00	--	o			0.00	--	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-5.274. Page 9. December 15, 1994

Table C-5.275. Algal Percent Cover. Invertebrates. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Cleared September 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.

Actinidae											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	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	--	---
14.2C/14.2	1	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	--	---
62762C/50983	1	3	0.00	0.00	3	0.00	0.00	--	o	1.000	3	56.67	28.33	3	0.00	0.00	--	+	0.184	3	0.00	0.00	3	0.00	0.00	0.00	--	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			56.70	28.30		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	---		
14.1C/14.1	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	--	---
14.2C/14.2	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	--	---
62762C/50983	2	2	0.00	0.00	3	0.00	0.00	--	o	1.000	2	5.00	2.50	3	7.50	4.33	--	-	0.968	2	0.00	0.00	3	0.00	0.00	0.00	--	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			5.00	2.50		7.50	4.30		-			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	---		
14.1C/14.1	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	--	---
14.2C/14.2	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	--	---
62762C/50983	3	1	0.00	--	2	0.00	0.00	--	o	---	1	5.00	--	2	12.50	2.50	--	-	---	1	0.00	--	2	0.00	0.00	0.00	--	o	---
Habitat Means			0.00	--		0.00	0.00		o			5.00	--		12.50	2.50		-			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-5.275. Page 1. December 15, 1994

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	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	--	---
14.2C/14.2	1	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	--	---
62762C/50983	1	3	0.00	0.00	3	0.00	0.00	--	o	1.000	3	3.33	3.33	3	0.00	0.00	--	+	0.423	3	0.00	0.00	3	0.00	0.00	0.00	--	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			3.30	3.30		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	---		
14.1C/14.1	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	--	---
14.2C/14.2	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	--	---
62762C/50983	2	2	0.00	0.00	3	0.00	0.00	--	o	1.000	2	0.00	0.00	3	9.17	9.17	--	-	0.423	2	0.00	0.00	3	0.00	0.00	0.00	--	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		9.20	9.20		-			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	---		
14.1C/14.1	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	--	---
14.2C/14.2	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	--	---
62762C/50983	3	1	0.00	--	2	0.00	0.00	--	o	---	1	0.00	--	2	1.25	1.25	--	-	---	1	0.00	--	2	0.00	0.00	0.00	--	o	---
Habitat Means			0.00	--		0.00	0.00		o			0.00	--		1.30	1.30		-			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-5.275. Page 2. December 15, 1994

Table C-5.275. Algal Percent Cover. Invertebrates. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Cleared September 1989. (Continued.)

Littorinidae											Porifera								Cnidaria														
Site	Pair	Mvd	N	C	SE	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	0	--	--	0	--	--	--	-	---	0	--	--	0	--	--	--	-	---	0	--	--	0	--	--	--	-	---	0	--	---		
14.2C/14.2	1	0	--	--	0	--	--	--	-	---	0	--	--	0	--	--	--	-	---	0	--	--	0	--	--	--	-	---	0	--	---		
62762C/50983	1	3	0.00	0.00	3	1.67	1.67	--	-	0.423	3	0.00	0.00	3	0.00	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	0.00	-	o	1.000			
Habitat Means			0.00	0.00		1.70	1.70	--	-			0.00	0.00		0.00	0.00	0.00	-	o			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	Power	---		Power-50%	---	P-value	---	z
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---	
14.1C/14.1	2	0	--	--	0	--	--	--	-	---	0	--	--	0	--	--	--	-	---	0	--	--	0	--	--	--	-	---	0	--	---		
14.2C/14.2	2	0	--	--	0	--	--	--	-	---	0	--	--	0	--	--	--	-	---	0	--	--	0	--	--	--	-	---	0	--	---		
62762C/50983	2	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	0.00	-	o	1.000			
Habitat Means			0.00	0.00		0.00	0.00	--	-	o			0.00	0.00		0.00	0.00	-	o			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	Power	---		Power-50%	---	P-value	---	z
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---	
14.1C/14.1	3	0	--	--	0	--	--	--	-	---	0	--	--	0	--	--	--	-	---	0	--	--	0	--	--	--	-	---	0	--	---		
14.2C/14.2	3	0	--	--	0	--	--	--	-	---	0	--	--	0	--	--	--	-	---	0	--	--	0	--	--	--	-	---	0	--	---		
62762C/50983	3	1	2.50	--	2	0.00	0.00	--	-	+	---	1	0.00	--	2	0.00	0.00	-	o	---	1	0.00	--	2	0.00	0.00	0.00	-	o	---			
Habitat Means			2.50	--		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	---	z	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	---		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-5.275, Page 3, December 15, 1994

Table C-5.276. Algal Percent Cover. Substrates. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Cleared September 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.

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	0	--	--	0	--	--	-	-	---	0	--	--	0	--	--	-	-	---	0	--	--	0	--	--	-	-	---
14.2C/14.2	1	0	--	--	0	--	--	-	-	---	0	--	--	0	--	--	-	-	---	0	--	--	0	--	--	-	-	---
62762C/50983	1	3	37.50	31.46	3	98.33	1.67	-	-	0.15	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			37.50	31.50		98.30	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	---	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	---	
14.1C/14.1	2	0	--	--	0	--	--	-	-	---	0	--	--	0	--	--	-	-	---	0	--	--	0	--	--	-	-	---
14.2C/14.2	2	0	--	--	0	--	--	-	-	---	0	--	--	0	--	--	-	-	---	0	--	--	0	--	--	-	-	---
62762C/50983	2	2	23.75	16.25	3	52.50	13.77	-	-	0.260	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			23.80	16.30		52.50	13.80	-	-			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	---	
14.1C/14.1	3	0	--	--	0	--	--	-	-	---	0	--	--	0	--	--	-	-	---	0	--	--	0	--	--	-	-	---
14.2C/14.2	3	0	--	--	0	--	--	-	-	---	0	--	--	0	--	--	-	-	---	0	--	--	0	--	--	-	-	---
62762C/50983	3	1	0.00	--	2	37.50	25.00	-	-	---	1	0.00	--	2	0.00	0.00	-	o	---	1	0.00	--	2	0.00	0.00	-	o	---
Habitat Means			0.00	--		37.50	25.00	-	-			0.00	--		0.00	0.00	o				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 5.276. Page 1, December 15, 1994

Site Pair	Mvd	N	Sand							Shell Fragments							Filamentous Diatoms											
			C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	rv								
14.2C/14.2	1	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---			
62762C/50983	1	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	0.00			o		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	---	
14.1C/14.1	2	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---			
14.2C/14.2	2	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---			
62762C/50983	2	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	0.00			o		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	---	
14.1C/14.1	3	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---			
14.2C/14.2	3	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---			
62762C/50983	3	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	---
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	---	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-5.276. Page 2, December 15, 1994

Table C-5.276. Algal Percent Cover, Totals and Seasonal Groups, Cook Inlet/Kenai, Sheltered Rocky, June 1991, Cleared September 1989. (Continued.)

Sand and Mud										Total Substrate																			
14.2C/14.2	1	0	--	0	--	--	-	o	1.000	0	--	0	--	--	-	---													
62762C/50983	1	3	0.00	3	0.00	0.00	-	o	1.000	3	31.46	3	98.33	1.67	-	-	0.151												
Habitat Means			0.00		0.00	0.00		o			31.50		98.30	1.70		-													
Fisher's					Power-50%	---		P-value	---				Power-50%	---		P-value	---			Power	---			Power-50%	---		P-value		
Stouffer's					Power-50%	---		P-value	---				Power-50%	---		P-value	---			Power	---			Power-50%	---		P-value		
14.1C/14.1	2	0	--	0	--	--	-	---	0		--	0	--	--	-	---													
14.2C/14.2	2	0	--	0	--	--	-	---	0		--	0	--	--	-	---													
62762C/50983	2	2	0.00	3	0.00	0.00	-	o	1.000	2	16.25	3	52.50	13.77	-	-	0.260												
Habitat Means			0.00		0.00	0.00		o			16.30		52.50	13.80		-													
Fisher's					Power-50%	---		P-value	---				Power-50%	---		P-value	---			Power	---			Power-50%	---		P-value		
Stouffer's					Power-50%	---		P-value	---				Power-50%	---		P-value	---			Power	---			Power-50%	---		P-value		
14.1C/14.1	3	0	--	0	--	--	-	---	0		--	0	--	--	-	---													
14.2C/14.2	3	0	--	0	--	--	-	---	0		--	0	--	--	-	---													
62762C/50983	3	1	--	2	0.00	0.00	-	o	---	1	--	2	37.50	25.00	-	-	---												
Habitat Means			--		0.00	0.00					--		37.50	25.00															
Fisher's					Power-50%	---		P-value	---				Power-50%	---		P-value	---			Power	---			Power-50%	---		P-value		
Stouffer's					Power-50%	---		P-value	---				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-5.276, Page 3, December 15, 1994



Table C-5.277. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Sheltered Rocky. June 1992. 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
14.1C/14.1	1	6	0.06	0.06	6	0.17	0.06	-	-	0.207	6	1.17	0.40	6	2.00	0.26	-	-	0.111	6	29.58	10.48	6	38.75	8.84	-	-	0.485
14.2C/14.2	1	6	0.04	0.03	4	0.00	0.00	-	+	0.258	6	1.17	0.31	4	0.50	0.29	-	-	0.174	6	42.92	18.06	4	3.13	1.88	-	+	0.110
62762C/50983	1	6	0.09	0.05	6	0.00	0.00	-	+	0.116	6	1.17	0.40	6	0.83	0.17	-	-	0.461	6	16.25	8.26	6	51.25	15.50	-	-	0.102
Habitat Means			0.06	0.05		0.06	0.02		+			1.17	0.37		1.11	0.24		-			29.60	12.30		31.07	8.73		-	
Fisher's	Power		0.183		Power-50%	0.352	P-value			0.124	Power	0.232		Power-50%	0.825	P-value			0.243	Power	0.100		Power-50%	0.321	P-value			0.179
Stouffer's	Power		---		Power-50%	---	P-value			0.080	Power	0.036		Power-50%	0.876	P-value			0.272	Power	0.023		Power-50%	0.411	P-value			0.330
14.1C/14.1	2	6	0.23	0.10	6	0.39	0.08	-	-	0.262	6	2.67	0.76	6	3.83	0.65	-	-	0.272	6	56.25	13.83	6	73.75	15.16	-	-	0.352
14.2C/14.2	2	6	0.07	0.07	4	0.14	0.10	-	-	0.572	6	1.33	0.56	4	1.50	0.65	-	-	0.852	6	83.33	16.67	4	36.25	13.40	-	+	0.079
62762C/50983	2	6	0.22	0.12	6	0.09	0.09	-	+	0.409	6	3.00	1.18	6	1.50	0.72	-	+	0.304	6	40.83	12.16	6	60.00	14.63	-	-	0.460
Habitat Means			0.18	0.10		0.21	0.09		-			2.33	0.83		2.28	0.67		-			60.13	14.23		56.70	14.40		-	
Fisher's	Power		0.113		Power-50%	0.518	P-value			0.318	Power	0.113		Power-50%	0.649	P-value			0.420	Power	0.095		Power-50%	0.730	P-value			0.370xy
Stouffer's	Power		0.077		Power-50%	0.613	P-value			0.608	Power	0.059		Power-50%	0.709	P-value			0.717	Power	0.052		Power-50%	0.793	P-value			0.330
14.1C/14.1	3	6	0.49	0.08	6	0.38	0.14	-	+	0.501	6	4.67	1.12	6	4.50	1.28	-	+	0.924	6	41.67	13.91	6	100.00	0.00	-	-	0.004
14.2C/14.2	3	2	0.22	0.22	5	0.44	0.16	-	-	0.500	2	3.00	2.00	5	4.80	1.50	-	-	0.537	2	100.00	0.00	5	97.50	1.94	-	+	0.209
62762C/50983	3	6	0.22	0.09	4	0.05	0.05	-	-	0.181	6	2.83	0.83	4	1.25	0.25	-	-	0.174	6	54.17	16.67	4	68.75	20.73	-	-	0.394
Habitat Means			0.31	0.13		0.29	0.12		-			3.50	1.32		3.52	1.01		+			65.30	10.20		88.77	7.53		-	
Fisher's	Power		0.226		Power-50%	0.770	P-value			0.227	Power	0.086		Power-50%	0.510	P-value			0.316	Power	---		Power-50%	---	P-value			0.013
Stouffer's	Power		0.165		Power-50%	0.760	P-value			0.110	Power	0.082		Power-50%	0.558	P-value			0.137	Power	0.426		Power-50%	0.533	P-value			0.105

(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.

Table C-5.277, Page 1, December 15, 1994

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	2.92	1.19	-	-	0.068	6	70.00	10.31	6	58.33	8.03	-	+	0.349	6	28.33	9.61	6	33.33	7.90	-	-	0.616		
14.2C/14.2	1	6	13.33	9.28	4	7.50	5.55	-	+	0.857	6	43.75	15.41	4	89.38	4.83	-	-	0.061	6	39.17	19.06	4	3.13	1.88	-	-	0.159		
62762C/50983	1	6	51.25	16.42	6	9.17	3.46	-	+	0.036	6	32.50	15.22	6	39.58	13.36	-	-	0.489	6	16.25	8.26	6	51.25	15.50	-	-	0.102		
Habitat Means			21.67	8.70		6.53	3.57		+			48.77	13.63		62.43	8.73		-			27.93	12.33		29.23	8.43		-			
Fisher's	Power		0.203		Power-50%	0.370	P-value			0.133x	Power	0.408		Power-50%	0.407	P-value			0.117	Power	0.079		Power-50%	0.285	P-value			0.205		
Stouffer's	Power		---		Power-50%	---	P-value			0.073	Power	0.268		Power-50%	0.499	P-value			0.184	Power	0.022		Power-50%	0.377	P-value			0.108		
14.1C/14.1	2	6	0.00	0.00	6	3.75	2.80	-	-	0.131	6	43.75	13.83	6	22.50	14.63	-	+	0.243	6	51.25	11.56	6	43.33	16.20	-	+	0.771		
14.2C/14.2	2	6	0.00	0.00	4	11.25	7.18	-	-	0.193	6	16.67	16.67	4	52.50	10.46	-	-	0.144	6	80.42	16.34	4	20.62	12.76	-	+	0.039		
62762C/50983	2	6	22.50	6.86	6	8.33	5.19	-	-	0.157	6	36.67	12.41	6	15.42	6.37	-	+	0.194	6	29.17	6.76	6	54.17	15.75	-	-	0.282		
Habitat Means			7.50	2.30		7.80	5.13		-			32.40	14.30		30.13	10.50		+			53.63	11.57		39.37	14.93		-			
Fisher's	Power		0.112		Power-50%	0.101	P-value			0.112	Power	0.133		Power-50%	0.382	P-value			0.171	Power	0.279		Power-50%	0.827	P-value			0.121		
Stouffer's	Power		0.027		Power-50%	0.036	P-value			0.689	Power	0.064		Power-50%	0.468	P-value			0.134	Power	0.178		Power-50%	0.866	P-value			0.622		
14.1C/14.1	3	6	5.00	2.81	6	0.00	0.00	-	+	0.101	6	53.33	12.09	6	0.00	0.00	-	+	0.003	6	22.08	8.74	6	50.42	15.44	-	-	0.207		
14.2C/14.2	3	2	0.00	0.00	5	0.50	0.374	-	-	0.374	2	0.00	0.00	5	2.00	1.46	-	-	0.198	2	48.75	48.75	5	62.00	12.76	-	-	0.639		
62762C/50983	3	6	40.42	15.25	4	13.75	12.14	-	+	0.142	6	5.42	3.32	4	17.50	10.16	-	-	0.393	6	25.83	11.58	4	66.25	21.13	-	-	0.071		
Habitat Means			15.13	6.03		4.77	4.10		+			19.57	5.13		6.50	3.90		-			32.23	23.03		59.57	16.43		-			
Fisher's	Power		---		Power-50%	---	P-value			0.070	Power	0.084		Power-50%	0.447	P-value			0.247xy	Power	---		Power-50%	---	P-value			0.036		
Stouffer's	Power		---		Power-50%	---	P-value			0.060	Power	0.002		Power-50%	0.497	P-value			0.385	Power	---		Power-50%	---	P-value			0.016		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.277, Page 2, December 15, 1994

Table C-5.277. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Sheltered Rocky. June 1992. Cleared June 1990. (Continued.)

Annuals (A)												Ephemerals (AE)																		
Site Pair	W	M	N	C	SE	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	4	6	1.00	1.00	4	0.00	0.00	0.00	-	+	0.363	6	0.00	0.00	4	0.00	0.00	-	o	1.000										
14.2C/14.2	1	6	3.75	3.75	4	0.00	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	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000										
Habitat Means			1.70	1.70		1.80		0.87		-			0.00	0.00		0.00		0.00	o											
Fisher's	Power		0.047		Power-50%		---	P-value		0.388	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value				
Stouffer's	Power		0.005		Power-50%		---	P-value		0.460	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value				
14.1C/14.1	2	6	5.00	2.58	6	30.42	14.94	-	-	0.118	6	0.00	0.00	6	0.83	0.83	-	-	0.363											
14.2C/14.2	2	6	2.92	2.92	4	15.63	7.32	-	-	0.085	6	1.25	1.25	4	0.00	0.00	-	+	0.363											
62762C/50983	2	6	11.67	7.68	6	5.83	5.83	-	+	0.446	6	2.08	2.08	6	-1.67	1.67	-	+	0.936											
Habitat Means			6.53	4.40		17.27		9.33		-		1.13	1.13		0.83		0.83	+												
Fisher's	Power		---		Power-50%		---	P-value		0.052	Power	---		Power-50%		---	P-value		0.502	Power	---		Power-50%		---	P-value				
Stouffer's	Power		0.302		Power-50%		0.470	P-value		0.405	Power	---		Power-50%		---	P-value		0.471	Power	---		Power-50%		---	P-value				
14.1C/14.1	3	6	19.58	8.62	6	49.58	15.44	-	-	0.163	6	1.25	0.85	6	4.58	2.62	-	-	0.348											
14.2C/14.2	3	2	51.25	48.75	5	35.50	13.72	-	-	0.574	2	1.25	-1.25	5	2.00	1.46	-	-	0.943											
62762C/50983	3	6	28.33	13.47	4	2.50	2.50	-	+	0.100	6	1.67	0.83	4	0.00	0.00	-	+	0.082											
Habitat Means			33.07	23.63		29.20		20.53		+		1.43	1.00		2.20		1.37	-												
Fisher's	Power		0.051		Power-50%		0.224	P-value		0.194	Power	0.034		Power-50%		0.458	P-value		0.533x	Power	---		Power-50%		---	P-value				
Stouffer's	Power		0.033		Power-50%		0.269	P-value		0.103	Power	0.003		Power-50%		0.559	P-value		0.904	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-5.277. Page 1. December 15, 1994

**Table C-5.278. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1992. 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		
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	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		
14.2C/14.2	2	6	1.25	1.25	4	0.00	0.00	-	+	0.363	6	1.25	1.25	4	0.00	0.00	-	+	0.363			6	1.25	1.25	4	0.00	0.00	-	+	0.363		
62762C/50983	2	6	2.08	2.08	6	5.42	5.42	-	-	0.736	6	2.08	2.08	6	1.67	1.67	-	+	0.936			6	2.08	2.08	6	1.67	1.67	-	+	0.936		
Habitat Means			1.13	1.13		2.63	2.63		-			1.13	1.13		0.57	0.57		+				1.13	1.13		0.57	0.57		+				
Fisher's	Power		---		Power-50%	---	P-value			0.444	Power	---		Power-50%	---	P-value			0.389			Power	---		Power-50%	---	P-value			0.389		
Stouffer's	Power		---		Power-50%	---	P-value			0.379	Power	---		Power-50%	---	P-value			0.370			Power	---		Power-50%	---	P-value			0.370		
14.1C/14.1	3	6	1.25	0.85	6	7.08	4.00	-	-	0.244	6	1.25	0.85	6	4.58	2.62	-	-	0.348			6	1.25	0.85	6	4.58	2.62	-	-	0.348		
14.2C/14.2	3	2	1.25	1.25	5	3.00	2.42	-	+	0.853	2	1.25	1.25	5	2.00	1.46	-	+	0.943			2	1.25	1.25	5	2.00	1.46	-	+	0.943		
62762C/50983	3	6	2.08	1.00	4	0.00	0.00	-	+	0.081	6	1.67	0.83	4	0.00	0.00	-	+	0.082			6	1.67	0.83	4	0.00	0.00	-	+	0.082		
Habitat Means			1.57	1.07		3.37	2.13		-			1.43	1.00		2.20	1.37		-				1.43	1.00		2.20	1.37		-				
Fisher's	Power		0.053		Power-50%	0.478	P-value			0.423*	Power	0.033		Power-50%	0.479	P-value			0.533*			Power	0.041		Power-50%	0.494	P-value			0.533*		
Stouffer's	Power		0.005		Power-50%	0.578	P-value			0.888	Power	0.005		Power-50%	0.556	P-value			0.904			Power	0.004		Power-50%	0.595	P-value			0.904		

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

Table C-5.278. Page 1. December 15, 1994

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	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	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	1.67	1.67	-	-	0.363	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	6	0.00	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	3.75	3.75	-	-	0.363	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		
Habitat Means			0.00	0.00		1.83	1.83		-			0.00	0.00		1.83	1.83		-				0.00	0.00		0.00	0.00		o				
Fisher's	Power		---		Power-50%	---	P-value			0.223	Power	---		Power-50%	---	P-value			0.223			Power	---		Power-50%	---	P-value			0.655		
Stouffer's	Power		---		Power-50%	---	P-value			0.138	Power	---		Power-50%	---	P-value			0.138			Power	---		Power-50%	---	P-value			0.500		
14.1C/14.1	3	6	0.00	0.00	6	2.50	1.71	-	-	0.183	6	0.00	0.00	6	2.50	1.71	-	-	0.183			6	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	0.00	0.00	5	1.00	1.00	-	+	0.374			2	0.00	0.00	5	0.00	0.00	-	o	1.000		
62762C/50983	3	6	0.42	0.42	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			0.13	0.13		1.17	0.90		-			0.13	0.13		1.17	0.90		-				0.00	0.00		0.00	0.00		o				
Fisher's	Power		0.041		Power-50%	---	P-value			0.201	Power	0.047		Power-50%	---	P-value			0.201			Power	---		Power-50%	---	P-value			0.655		
Stouffer's	Power		0.043		Power-50%	---	P-value			0.579	Power	0.047		Power-50%	---	P-value			0.579			Power	---		Power-50%	---	P-value			0.500		

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

Table C-5.278. Page 2. December 15, 1994

Table C-5.278. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1992. 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	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%	---		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%	---		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%	---		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%	---		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%	---		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%	---		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-5.278. Page 3, December 15, 1994

Morphological Group: Tubular and Saccate Greens

Blidingia/Enteromorpha (AE) (a)

Morphological Group: Tubular and Saccate Greens										Blidingia/Enteromorpha (AE) (a)																			
14.1C/14.1	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	
14.2C/14.2	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	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		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		Power-50%	---	P-value		0.500
14.1C/14.1	2	6	0.00	0.00	6	0.83	0.83	-	-	0.363	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	
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		0.27	0.27		-			0.00	0.00		0.27	0.27		-			0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%	---	P-value		0.403	Power	---		Power-50%	---	P-value		0.403	Power	---		Power-50%	---	P-value		Power-50%	---	P-value		0.403
Stouffer's		Power	---		Power-50%	---	P-value		0.398	Power	---		Power-50%	---	P-value		0.398	Power	---		Power-50%	---	P-value		Power-50%	---	P-value		0.398
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		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		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-5.278. Page 4, December 15, 1994



Table C-5.279. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1992. Cleared June 1990. (Continued.)

Fucus Stipes (P) (a)											Petalonia/Punctaria (AE) (b)								Morphological Group: Coarse 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						
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			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			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	0.42	0.42	6	2.92	2.08	-	-	0.329						
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			0.13	0.13		0.97	0.70	-	-							
Fisher's	Power		---		Power-50%		---		P-value	0.655	Power	---		Power-50%		---		P-value	0.655	Power	0.005		Power-50%		---		P-value	0.382						
Stouffer's	Power		---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500	Power	0.002		Power-50%		---		P-value	0.390						

(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.

Table C-5.279, Page 3, December 15, 1994

Anallipus japonicus (P)											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				
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			o			0.00	0.00		0.00			o			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			o			0.00	0.00		0.00			o			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	0.42	0.42	6	2.92	2.08	-	-	0.329	6	0.00	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			0.13	0.13		0.97	0.70	-				0.00	0.00		0.00			o			0.00	0.00		0.00			o					
Fisher's	Power		0.008		Power-50%		---		P-value	0.382	Power	---		Power-50%		---		P-value	0.655	Power	---		Power-50%		---		P-value	0.655				
Stouffer's	Power		0.001		Power-50%		---		P-value	0.390	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-5.279, Page 4, December 15, 1994

Table C-5.279. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1992. Cleared June 1990. (Continued.)

Site Pair	Mvd	Fine Filamentous Browns (AE) (b)								Morphological Group: Saccate Browns								Leathesia/Colpomenia (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		
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		o				0.00	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	Power	---		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	Power	---		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		o				0.00	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	Power	---		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	Power	---		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	0.00	0.00	-	o	0.183	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		o				0.43	0.30		0.00	0.00					0.00	0.00		0.00	0.00	o				
Fisher's	Power		---		Power-50%		---	P-value	0.655	Power	0.008		Power-50%		0.014	P-value	0.272	Power	---		Power-50%		---	P-value	0.655	Power	---		P-value	0.655
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power	0.000		Power-50%		0.001	P-value	0.352	Power	---		Power-50%		---	P-value	0.500	Power	---		P-value	0.500

(b) Blachista, Botocarpus and Pilayella.

(a) Genera not separated.

x At least one site pair p value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.279. Page 5. December 15, 1994

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	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	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	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	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00			o			0.00	0.00		0.00	0.00		o			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	0.655	Power	---		Power-50%		---	P-value	0.655	Power	---		Power-50%	
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value	0.500	Power	---		Power-50%	
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	1.25	1.25	-	-	0.363	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	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000	
Habitat Means			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	Power	---		Power-50%	
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value	0.398	Power	---		Power-50%		---	P-value	0.398	Power	---		Power-50%	
14.1C/14.1	3	6	1.25	0.85	6	0.00	0.00	-	+	0.183	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			0.43	0.30		0.00			+			0.00	0.00		0.13	0.13		-			0.00	0.00		0.13	0.13		-			
Fisher's	Power		0.011		Power-50%		0.006	P-value	0.272	Power	---		Power-50%		---	P-value	0.403	Power	---		Power-50%		---	P-value	0.403	Power	---		Power-50%	
Stouffer's	Power		0.001		Power-50%		0.000	P-value	0.352	Power	---		Power-50%		---	P-value	0.398	Power	---		Power-50%		---	P-value	0.398	Power	---		Power-50%	

(a) Genera not separated.

x At least one site pair p value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.279. Page 6. December 15, 1994

Table C-5.280. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai, Sheltered Rocky, June 1992, 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	3.33	3.33	6	7.50	3.35	-	-	0.159	6	0.00	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	10.83	6.11	4	3.13	1.88	-	+	0.442	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				
62762C/50983	1	6	3.33	2.01	6	0.00	0.00	-	+	0.100	6	0.00	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			5.80	3.80		3.53	1.77		+			1.27	1.27		0.00	0.00		+			0.00	0.00		0.00	0.00		o					
Fisher's	Power		0.123		Power-50%		0.207	P-value		0.164	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655				
Stouffer's	Power		---		Power-50%		---	P-value		0.093	Power	---		Power-50%		---	P-value		0.398	Power	---		Power-50%		---	P-value		0.500				
14.1C/14.1	2	6	19.58	9.23	6	53.33	15.66	-	-	0.078	6	10.83	6.48	6	29.17	14.23	-	-	0.159	6	0.00	0.00	6	0.00	0.00	-	o	1.000				
14.2C/14.2	2	6	4.58	4.58	4	23.12	12.01	-	-	0.106	6	4.58	4.58	4	6.25	6.25	-	-	0.808	6	0.00	0.00	4	0.00	0.00	-	o	1.000				
62762C/50983	2	6	9.58	5.79	6	0.83	0.83	-	-	0.157	6	3.33	2.20	6	0.42	0.42	-	+	0.300	6	0.00	0.00	6	0.00	0.00	-	o	1.000				
Habitat Means			11.27	6.53		25.73	9.50		-			6.23	4.43		11.97	6.97		-			0.00	0.00		0.00	0.00		o					
Fisher's	Power		---		Power-50%		---	P-value		0.051	Power	0.090		Power-50%		0.286	P-value		0.303	Power	---		Power-50%		---	P-value		0.655				
Stouffer's	Power		0.081		Power-50%		0.485	P-value		0.630	Power	0.057		Power-50%		0.476	P-value		0.684	Power	---		Power-50%		---	P-value		0.500				
14.1C/14.1	3	6	20.42	6.56	6	31.67	14.94	-	-	0.592	6	1.67	0.83	6	5.83	3.57	-	-	0.434	6	0.00	0.00	6	0.00	0.00	-	o	1.000				
14.2C/14.2	3	2	15.00	15.00	5	33.50	17.26	-	-	0.619	2	3.75	3.75	5	11.00	6.60	-	-	0.624	2	0.00	0.00	5	0.00	0.00	-	o	1.000				
62762C/50983	3	6	5.00	1.94	4	2.50	2.50	-	+	0.338	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			13.47	7.83		22.57	11.57		-			1.97	1.67		5.60	3.40		-			0.00	0.00		0.00	0.00		o					
Fisher's	Power		0.062		Power-50%		0.693	P-value		0.525	Power	0.075		Power-50%		0.386	P-value		0.448	Power	---		Power-50%		---	P-value		0.655				
Stouffer's	Power		0.055		Power-50%		0.692	P-value		0.720	Power	0.050		Power-50%		0.460	P-value		0.681	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-5.280. Page 1, December 15, 1994

Gigartiniaceae Group (P) (a)											Palmaria spp. (A)								Phycodrys riggii (A)									
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	
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	10.42	6.24	6	2.92	2.08	-	+	0.382	6	0.00	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	2.92	2.92	4	6.25	6.25	-	-	0.678	6	0.00	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	0.42	0.42	-	-	0.363	6	0.83	0.53	6	0.00	0.00	-	+	0.175	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			4.43	3.03		3.20	2.93		-			0.27	0.17		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's	Power		0.011		Power-50%		0.024	P-value		0.423	Power	0.012		Power-50%		0.016	P-value		0.265	Power	---		Power-50%		---	P-value		0.655
Stouffer's	Power		0.030		Power-50%		0.035	P-value		0.242	Power	0.012		Power-50%		0.016	P-value		0.107	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	6	0.00	0.00	6	2.08	1.36	-	-	0.178	6	0.00	0.00	6	0.83	0.83	-	-	0.363	6	0.00	0.00	6	0.42	0.42	-	-	0.363
14.2C/14.2	3	2	3.75	3.75	5	3.00	2.00	-	+	0.839	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	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			1.27	1.27		1.70	1.13		-			0.00	0.00		0.77	0.77		-			0.00	0.00		0.13	0.13		-	
Fisher's	Power		0.065		Power-50%		---	P-value		0.293	Power	---		Power-50%		---	P-value		0.227	Power	---		Power-50%		---	P-value		0.403
Stouffer's	Power		0.091		Power-50%		---	P-value		0.372	Power	---		Power-50%		---	P-value		0.304	Power	---		Power-50%		---	P-value		0.398

(a) Chondrus, Iridaea, Mantopurpurea 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-5.280. Page 2, December 15, 1994



Table C-5.280. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1992. Cleared June 1990. (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	1.25	1.25	6	7.50	3.35	-	-	0.047				
14.2C/14.2	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	6	7.08	5.14	4	3.13	1.88	-	-	0.620				
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	3.33	2.01	6	0.00	0.00	-	-	0.100				
Habitat Means			1.27	1.27		0.00	0.00		+			0.00	0.00		0.00	0.00		o			3.90	2.80		3.53	1.77		-					
Fisher's	Power		---		Power-50%	---	P-value		0.403		Power	---		Power-50%	---	P-value		0.655		Power	0.076		Power-50%	0.234	P-value		0.211x					
Stouffer's	Power		---		Power-50%	---	P-value		0.398		Power	---		Power-50%	---	P-value		0.500		Power	0.035		Power-50%	0.367	P-value		0.140					
14.1C/14.1	2	6	0.42	0.42	6	26.25	14.84	-	-	0.073	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	7.92	3.79	6	3.33	1.54	-	-	0.522				
14.2C/14.2	2	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	6	0.00	0.00	4	16.88	7.80	-	-	0.083				
62762C/50983	2	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	0.42	0.42	6	0.00	0.00	-	-	0.363				
Habitat Means			1.53	1.27		8.77	4.93		+			0.00	0.00		0.00	0.00		o			2.77	1.40		6.73	3.10		-					
Fisher's	Power		0.005		Power-50%	0.195	P-value		0.219xy		Power	---		Power-50%	---	P-value		0.655		Power	0.044		Power-50%	0.131	P-value		0.403xy					
Stouffer's	Power		0.000		Power-50%	0.339	P-value		0.167		Power	---		Power-50%	---	P-value		0.500		Power	0.003		Power-50%	0.150	P-value		0.302					
14.1C/14.1	3	6	1.67	0.83	6	0.83	0.83	-	+	0.368	6	0.00	0.00	6	1.67	1.67	-	-	0.363	6	10.42	2.53	6	7.08	5.64	-	-	0.193				
14.2C/14.2	3	2	0.00	0.00	5	6.50	4.85	-	+	0.204	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	11.25	11.25	5	8.50	5.22	-	-	0.823				
62762C/50983	3	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	1.25	0.85	4	2.50	2.50	-	-	0.846				
Habitat Means			0.70	0.40		2.43	1.90		+			0.00	0.00		0.57	0.57		-			7.67	4.90		6.03	4.43		-					
Fisher's	Power		0.033		Power-50%	0.153	P-value		0.320 y		Power	---		Power-50%	---	P-value		0.403		Power	0.283		Power-50%	0.911	P-value		0.273					
Stouffer's	Power		0.009		Power-50%	0.176	P-value		0.234		Power	---		Power-50%	---	P-value		0.398		Power	0.227		Power-50%	0.868	P-value		0.398					

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

Table C 5.280. Page 3. December 15, 1994

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	2.08	1.19	-	-	0.092				
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	7.08	5.14	4	3.13	1.88	-	-	0.620				
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	3.33	2.01	6	0.00	0.00	-	-	0.100				
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			3.47	2.37		1.73	1.03		-					
Fisher's	Power		---		Power-50%	---	P-value		0.655		Power	---		Power-50%	---	P-value		0.655		Power	0.073		Power-50%	0.103	P-value		0.208x					
Stouffer's	Power		---		Power-50%	---	P-value		0.500		Power	---		Power-50%	---	P-value		0.500		Power	0.010		Power-50%	0.153	P-value		0.122					
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.83	0.83	-	-	0.363	6	0.83	0.53	6	0.83	0.83	-	o	0.767				
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	1.25	1.25	-	-	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		0.27	0.27		-			0.27	0.17		0.70	0.70		-					
Fisher's	Power		---		Power-50%	---	P-value		0.655		Power	---		Power-50%	---	P-value		0.403		Power	0.007		Power-50%	0.019	P-value		0.467					
Stouffer's	Power		---		Power-50%	---	P-value		0.500		Power	---		Power-50%	---	P-value		0.398		Power	0.013		Power-50%	0.019	P-value		0.436					
14.1C/14.1	3	6	0.00	0.00	6	4.58	4.58	-	-	0.363	6	2.92	2.08	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	4.00	2.92	-	+	0.199	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	0.42	0.42	4	0.00	0.00	-	+	0.363	6	0.00	0.00	4	0.00	0.00	-	o	1.000				
Habitat Means			0.00	0.00		1.53	1.53		-			1.10	0.83		1.33	0.97		+			0.00	0.00		0.00	0.00		o					
Fisher's	Power		---		Power-50%	---	P-value		0.403		Power	0.018		Power-50%	0.048	P-value		0.214 y		Power	---		Power-50%	---	P-value		0.655					
Stouffer's	Power		---		Power-50%	---	P-value		0.398		Power	0.006		Power-50%	0.073	P-value		0.200		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-5.280. Page 4. December 15, 1994

Table C-5.280. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1992. Cleared June 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	6	1.25	1.25	6	5.42	2.62	-	-	0.207	6	0.00	0.00	6	0.00	0.00	-	-	1.000	6	0.00	0.00	6	0.00	0.00	-	-	1.000
14.2C/14.2	1	6	0.00	0.00	4	0.00	0.00	-	-	1.000	6	0.00	0.00	4	0.00	0.00	-	-	1.000	6	0.00	0.00	4	0.00	0.00	-	-	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	-	1.000	6	0.00	0.00	6	0.00	0.00	-	-	1.000	6	0.00	0.00	6	0.00	0.00	-	-	1.000
Habitat Means			0.43	0.43		1.80	0.87	-				0.00	0.00		0.00	0.00	-	-			0.00	0.00		0.00	0.00	-	-	
Fisher's	Power		0.063		Power-50%		---	P-value		0.293	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's	Power		0.015		Power-50%		---	P-value		0.360	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	3.75	2.56	6	0.00	0.00	-	+	0.183	6	0.00	0.00	6	0.00	0.00	-	-	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	15.63	7.32	-	-	0.082	6	0.00	0.00	4	0.00	0.00	-	-	1.000	6	0.00	0.00	4	0.00	0.00	-	-	1.000
62762C/50983	2	6	0.00	0.00	6	0.00	0.00	-	-	1.000	6	0.00	0.00	6	0.00	0.00	-	-	1.000	6	0.00	0.00	6	0.00	0.00	-	-	1.000
Habitat Means			1.27	0.87		5.20	2.43	-				0.00	0.00		0.00	0.00	-	-			0.00	0.00		0.43	0.43	-	-	
Fisher's	Power		0.053		Power-50%		0.006	P-value		0.240	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.403
Stouffer's	Power		0.004		Power-50%		0.000	P-value		0.454	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.398
14.1C/14.1	3	6	3.33	2.11	6	0.00	0.00	-	+	0.175	6	0.00	0.00	6	0.00	0.00	-	-	1.000	6	2.08	1.36	6	0.00	0.00	-	+	0.178
14.2C/14.2	3	2	0.00	0.00	5	0.00	0.00	-	-	1.000	2	0.00	0.00	5	0.00	0.00	-	-	1.000	2	0.00	0.00	5	0.00	0.00	-	-	1.000
62762C/50983	3	6	0.00	0.00	4	2.50	2.50	-	-	0.391	6	0.00	0.00	4	0.00	0.00	-	-	1.000	6	0.00	0.00	4	0.00	0.00	-	-	1.000
Habitat Means			1.10	0.70		0.83	0.83	-	+			0.00	0.00		0.00	0.00	-	-			0.70	0.47		0.00	0.00	-	-	
Fisher's	Power		0.015		Power-50%		0.020	P-value		0.350	Power	---		Power-50%		---	P-value		0.655	Power	0.014		Power-50%		0.025	P-value		0.268
Stouffer's	Power		0.006		Power-50%		0.020	P-value		0.655	Power	---		Power-50%		---	P-value		0.500	Power	0.001		Power-50%		0.004	P-value		0.350

(a) Genera not separated.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.280. Page 5. December 15, 1994

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	3.33	3.33	6	0.42	0.42	-	+	0.548	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				
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	1.25	0.85	6	0.42	0.42	-	+	0.462				
Habitat Means			1.23	1.23		0.13	0.13		+			0.00	0.00		0.00	0.00		o			0.43	0.30		0.40	0.40		-					
Fisher's	Power		---		Power-50%		---	P-value		0.286	Power	---		Power-50%		---	P-value		0.655	Power	0.001		Power-50%		0.004	P-value		0.503 y				
Stouffer's	Power		---		Power-50%		---	P-value		0.158	Power	---		Power-50%		---	P-value		0.500	Power	0.003		Power-50%		0.001	P-value		0.660				
14.1C/14.1	3	6	2.08	1.64	6	1.67	1.24	-	+	0.922	6	0.00	0.00	6	0.83	0.83	-	+	0.363	6	0.83	0.53	6	2.08	1.36	-	-	0.635				
14.2C/14.2	3	2	3.75	3.75	5	3.00	3.00	-	+	0.713	2	7.50	7.50	5	1.50	1.50	-	+	0.354	2	0.00	0.00	5	2.00	1.46	-	-	0.198				
62762C/50983	3	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	0.00	0.00	-	o	1.000				
Habitat Means			2.23	2.07		1.57	1.40		+			2.50	2.50		0.77	0.77		+			0.27	0.17		1.37	0.97		-					
Fisher's	Power		0.052		Power-50%		0.210	P-value		0.319	Power	---		Power-50%		---	P-value		0.512	Power	0.106		Power-50%		0.021	P-value		0.217				
Stouffer's	Power		0.088		Power-50%		0.338	P-value		0.167	Power	---		Power-50%		---	P-value		0.498	Power	0.150		Power-50%		0.021	P-value		0.308				

(b) Genera not separated.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.280. Page 6. December 15, 1994

Table C-5.280. Algal Percent Cover, Rhodophyta, Cook Inlet/Kenai, Sheltered Rocky, June 1992, Cleared June 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	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	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	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	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			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	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	Power	---		Power-50%		---	P-value		0.500	
14.1C/14.1	2	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	0.83	0.83	6	0.00	0.00	0.00	-	-	0.363	6	0.83	0.83	6	0.00	0.00	-	-	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	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	6	1.25	0.85	6	0.42	0.42	-	+	0.462	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	4.58	3.19	6	0.00	0.00	0.00	-	-	0.120	6	4.58	3.19	6	0.00	0.00	-	-	0.120
Habitat Means			0.43	0.30		0.40	0.40		-			0.00	0.00		0.00	0.00		o			1.80	1.33		0.00	0.00		-			1.80	1.33		0.00	0.00		-		
Fisher's	Power		0.002		Power-50%		0.008	P-value		0.503	Power	---		Power-50%		---	P-value		0.655	Power	0.070		Power-50%		0.038	P-value		0.108	Power	---		Power-50%		---	P-value		0.108	
Stouffer's	Power		0.003		Power-50%		0.001	P-value		0.660	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.046	Power	---		Power-50%		---	P-value		0.046	
14.1C/14.1	3	6	0.83	0.53	6	2.08	1.36	-	-	0.635	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	7.50	3.76	6	0.00	0.00	0.00	-	-	0.085	6	7.50	3.76	6	0.00	0.00	-	-	0.085
14.2C/14.2	3	2	0.00	0.00	5	2.00	1.46	-	-	0.198	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	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	3.33	2.01	4	0.00	0.00	0.00	-	-	0.100	6	3.33	2.01	4	0.00	0.00	-	-	0.100
Habitat Means			0.27	0.17		1.37	0.97		-			0.00	0.00		0.00	0.00		o			3.60	1.93		0.00	0.00		-			3.60	1.93		0.00	0.00		-		
Fisher's	Power		0.116		Power-50%		0.015	P-value		0.217	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.033	Power	---		Power-50%		---	P-value		0.033	
Stouffer's	Power		0.161		Power-50%		0.015	P-value		0.308	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.023	Power	---		Power-50%		---	P-value		0.023	

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

Table C-5.280. Page 7. December 15, 1994

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	--	-	--	-	-	-	-	-	-	-	-	-	-	-	-	-		
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	0.00	0.00	-	-	0.363	6	2.08	2.08	6	0.00	0.00	-	-	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	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	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			0.70	0.70		0.00	0.00		-			0.70	0.70		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	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	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	0.83	0.83	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	20.00	12.67	-	-	0.175	6	0.00	0.00	6	20.00	12.67	-	-	0.175
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	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	4.58	3.19	6	0.00	0.00	-	+	0.120	6	0.00	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	1.33		0.00	0.00		+			0.00	0.00		6.67	4.23		-			0.00	0.00		9.57	8.80		-	
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power	0.072		Power-50%		0.033	P-value		0.108	Power	0.021		Power-50%		---	P-value		0.265	Power	0.021		Power-50%		---	P-value		0.265
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.046	Power	0.019		Power-50%		---	P-value		0.349	Power	---		Power-50%		---	P-value		0.349
14.1C/14.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	7.50	3.76	6	0.00	0.00	-	+	0.085	6	0.00	0.00	6	16.67	16.67	-	-	0.363	6	0.00	0.00	6	16.67	16.67	-	-	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	12.00	9.70	-	-	0.224	2	0.00	0.00	5	12.00	9.70	-	-	0.224
62762C/50983	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	3.33	2.01	4	0.00	0.00	-	+	0.100	6	0.00	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			3.60	1.93		0.00	0.00		-			0.00	0.00		9.57	8.80		-			0.00	0.00		9.57	8.80		-	
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.033	Power	0.015		Power-50%		---	P-value		0.164	Power	0.015		Power-50%		---	P-value		0.164
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.023	Power	0.038		Power-50%		---	P-value		0.272	Power	---		Power-50%		---	P-value		0.272

(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-5.280. Page 8. December 15, 1994

Table C-5.280. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1992. Cleared June 1990. (Continued.)

Site Pair	Mvd	N	Crustose Coralline Algae (P)								Hildenbrandia sp. (P)								Petrocelis (P)									
			C	SE	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	2.08	2.08	6	0.00	0.00	-	+	0.363	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			o			0.70	0.70		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	20.00	12.67	-	-	0.175	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			o			0.00	0.00		6.67	4.23		-			0.00	0.00		0.00			o	
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power	0.017		Power-50%		---	P-value		0.265	Power	---		Power-50%		---	P-value		0.655
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	0.015		Power-50%		---	P-value		0.349	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	16.67	16.67	-	-	0.363	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	12.00	9.70	-	-	0.224
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			o			0.00	0.00		5.57	5.57		-			0.00	0.00		4.00		3.23		-
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.403	Power	0.001		Power-50%		---	P-value		0.307
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.398	Power	0.000		Power-50%		---	P-value		0.164

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

Table C 5.280, Page 9, December 15, 1994

Table C-5.281. Algal Percent Cover. Invertebrates. Cook Inlet/Kenai. Sheltered Rocky. June 1992. 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	1.67	0.53	-	-	0.092	6	0.00	0.00	6	0.00	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	13.33	9.28	4	3.13	3.13	-	-	0.514	6	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	42.92	15.70	6	5.83	3.46	-	-	0.034	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00	0.00	0.00	0.00		o			18.87	8.47		3.53	2.37		-			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			0.090x	Power	---		Power-50%	---	P-value			0.655	
Stouffer's	Power		---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.050	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	3.75	2.80	-	-	0.131	6	0.00	0.00	6	0.00	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	8.75	5.15	-	-	0.184	6	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	11.67	3.52	6	5.83	2.93	-	+	0.294	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00	0.00	0.00	0.00		o			3.90	1.17		6.13	3.63		-			0.00	0.00		0.00	0.00	0.00		o	
Fisher's	Power		---		Power-50%	---	P-value			0.655	Power	0.171		Power-50%		0.108	P-value		0.103	Power	---		Power-50%	---	P-value			0.655	
Stouffer's	Power		---		Power-50%	---	P-value			0.500	Power	0.090		Power-50%		0.041	P-value		0.560	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	5.00	2.81	6	0.00	0.00	-	+	0.101	6	0.00	0.00	6	0.00	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	0.00	-	o	1.000
62762C/50983	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	31.67	9.78	4	1.25	1.25	-	+	0.007	6	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00	0.00	0.00	0.00		o			12.23	4.20		0.60	0.60		+			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			0.007	Power	---		Power-50%	---	P-value			0.655	
Stouffer's	Power		---		Power-50%	---	P-value			0.500	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-5.281. Page 1. December 15, 1994

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	0.83	0.53	-	-	0.175	6	0.00	0.00	6	0.00	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	3.13	3.13	-	-	0.391	6	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000			
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	8.33	5.43	6	3.33	1.79	-	+	0.715	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000			
Habitat Means			0.00	0.00		0.00	0.00		o			2.77	1.80		2.40	1.80		-			0.00	0.00		0.00	0.00	0.00		o				
Fisher's	Power		---		Power-50%	---	P-value			0.655	Power	0.098		Power-50%		0.021	P-value		0.172	Power	---		Power-50%	---	P-value			0.655				
Stouffer's	Power		---		Power-50%	---	P-value			0.500	Power	0.109		Power-50%		0.002	P-value		0.383	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	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	1.88	1.88	-	-	0.391	6	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000			
62762C/50983	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	10.83	6.48	6	2.50	2.50	-	+	0.244	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000			
Habitat Means			0.00	0.00		0.20	0.20		-			3.60	2.17		1.47	1.47		+			0.00	0.00		0.00	0.00	0.00		o				
Fisher's	Power		---		Power-50%	---	P-value			0.419	Power	0.009		Power-50%		0.015	P-value		0.420	Power	---		Power-50%	---	P-value			0.655				
Stouffer's	Power		---		Power-50%	---	P-value			0.403	Power	0.001		Power-50%		0.002	P-value		0.206	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	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	0.00	-	o	1.000			
62762C/50983	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	8.75	5.62	4	12.50	12.50	-	-	0.936	6	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000			
Habitat Means			0.00	0.00		0.00	0.00		o			2.93	1.87		4.17	4.17		-			0.00	0.00		0.00	0.00	0.00		o				
Fisher's	Power		---		Power-50%	---	P-value			0.655	Power	0.005		Power-50%		0.018	P-value		0.637	Power	---		Power-50%	---	P-value			0.655				
Stouffer's	Power		---		Power-50%	---	P-value			0.500	Power	0.004		Power-50%		0.002	P-value		0.471	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-5.281. Page 2. December 15, 1994

Table C-5.281. Algal Percent Cover, Invertebrates, Cook Inlet/Kenai, Sheltered Rocky, June 1992, Cleared June 1990. (Continued.)

Littorinidae											Porifera								Cnidaria									
Site Pair	Mvd	N	C	SE	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	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
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	0.234	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	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.

Table C 5.281, Page 3, December 15, 1994

**Table C-5.282. Algal Percent Cover. Substrates. Cook Inlet/Kenai. Sheltered Rocky. June 1992. 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.

Site Pair	Mvd	N	Rock								Oiled Rock								Mud									
			C	SE	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	70.00	10.31	6	58.33	8.03	-	+	0.349	6	0.00	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	43.75	15.41	4	89.38	4.83	-	-	0.061	6	0.00	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	32.50	15.22	6	39.58	13.36	-	-	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
Habitat Means			48.77	13.63		62.43	8.73		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		0.406			Power-50%	0.379	P-value	0.117		Power	---			Power-50%	---	P-value	0.655		Power	---			Power-50%	---	P-value	0.655	
Stouffer's	Power		0.269			Power-50%	0.457	P-value	0.184		Power	---			Power-50%	---	P-value	0.500		Power	---			Power-50%	---	P-value	0.500	
14.1C/14.1	2	6	43.75	13.83	6	22.50	14.63	-	-	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
14.2C/14.2	2	6	16.67	16.67	4	52.50	10.46	-	-	0.144	6	0.00	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	36.67	12.41	6	15.42	6.37	-	+	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			32.40	14.30		30.13	10.50		+			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%	0.359	P-value	0.171		Power	---			Power-50%	---	P-value	0.655		Power	---			Power-50%	---	P-value	0.655	
Stouffer's	Power		0.063			Power-50%	0.461	P-value	0.134		Power	---			Power-50%	---	P-value	0.500		Power	---			Power-50%	---	P-value	0.500	
14.1C/14.1	3	6	53.33	12.09	6	0.00	0.00	-	-	0.003	6	0.00	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	2.00	1.46	-	-	0.198	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	5.42	3.32	4	17.50	10.16	-	-	0.393	6	0.00	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			19.57	5.13		6.50	3.90		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		0.084			Power-50%	0.466	P-value	0.247 <sub>xy</sub>		Power	---			Power-50%	---	P-value	0.655		Power	---			Power-50%	---	P-value	0.655	
Stouffer's	Power		0.003			Power-50%	0.522	P-value	0.385		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-5.282. Page 1, December 15, 1994

Site Pair	Mvd	N	Sand							Shell Fragments							Filamentous Diatoms											
			C	SE	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			o			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	16.25	16.25	-	-	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		5.43	5.43		-			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			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 5.282. Page 2, December 15, 1994

Table C-5.282. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Sheltered Rocky. June 1992. Cleared June 1990. (Continued.)

Site Pair	Mvd	N	Sand and Mud								Total Substrate																	
			C	SE	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	70.00	10.31	6	58.33	8.03	-	+	0.349									
14.2C/14.2	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	43.75	15.41	4	89.38	4.83	-	-	0.061									
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	32.50	15.22	6	39.58	13.36	-	-	0.489									
Habitat Means			0.00	0.00		0.00	0.00		o			48.77	13.63		62.43	8.73		-										
Fisher's	Power		---		Power-50%	---	P-value			0.655	Power	0.404		Power-50%		0.439	P-value		0.117	Power	---		Power-50%	---	P-value			
Stouffer's	Power		---		Power-50%	---	P-value			0.500	Power	0.269		Power-50%		0.527	P-value		0.184	Power	---		Power-50%	---	P-value			
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	43.75	13.83	6	22.50	14.63	-	-	0.243									
14.2C/14.2	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	16.67	16.67	4	52.50	10.46	-	-	0.144									
62762C/50983	2	6	0.00	0.00	6	16.25	16.25	-	-	0.363	6	36.67	12.41	6	31.67	14.30	-	-	0.921									
Habitat Means			0.00	0.00		5.43	5.43		-			32.40	14.30		35.57	13.13		-										
Fisher's	Power		---		Power-50%	---	P-value			0.403	Power	0.058		Power-50%		0.321	P-value		0.432 y	Power	---		Power-50%	---	P-value			
Stouffer's	Power		---		Power-50%	---	P-value			0.203	Power	0.026		Power-50%		0.397	P-value		0.497	Power	---		Power-50%	---	P-value			
14.1C/14.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	53.33	12.09	6	0.00	0.00	-	-	0.003									
14.2C/14.2	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	2.00	1.46	-	-	0.198									
62762C/50983	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	5.42	3.32	4	17.50	10.16	-	-	0.393									
Habitat Means			0.00	0.00		0.00	0.00		o			19.57	5.13		6.50	3.90		-										
Fisher's	Power		---		Power-50%	---	P-value			0.655	Power	0.089		Power-50%		0.437	P-value		0.247 <sub>xv</sub>	Power	---		Power-50%	---	P-value			
Stouffer's	Power		---		Power-50%	---	P-value			0.500	Power	0.002		Power-50%		0.481	P-value		0.385	Power	---		Power-50%	---	P-value			

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

Table C 5.282, Page 3, December 15, 1994



Table C-5.283. Algal Percent Cover, Totals and Seasonal Groups. Cook Inlet/Kenai, Coarse Textured, June 1991, Cleared September 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	N	Algal Diversity Index (a)							Algal Taxa Richness (b)							Total Algae											
			C	SE	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	0	--	--	0	--	--	--	--	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--
51091C/51091	1	0	--	--	0	--	--	--	--	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--
62802C/50226	1	0	--	--	1	0.00	--	--	--	0	--	--	1	0.00	--	--	--	--	0	--	--	1	0.00	--	--	--	--	--
Habitat Means			--	--		0.00	--	--	--		--	--		0.00	--	--	--	--		--	--		0.00	--	--	--	--	--
Fisher's	Power		---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---	Power	---	
Stouffer's	Power		---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---	Power	---	
50389C/50389	2	0	--	--	0	--	--	--	--	0	--	--	0	--	--	--	--	0	--	--	0	--	--	--	--	--	--	
51091C/51091	2	0	--	--	0	--	--	--	--	0	--	--	0	--	--	--	--	0	--	--	0	--	--	--	--	--	--	
62802C/50226	2	0	--	--	0	--	--	--	--	0	--	--	0	--	--	--	--	0	--	--	0	--	--	--	--	--	--	
Habitat Means			--	--		--	--	--	--		--	--		--	--	--	--		--	--		--	--	--	--	--	--	
Fisher's	Power		---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---	Power	---	
Stouffer's	Power		---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---	Power	---	
50389C/50389	3	0	--	--	0	--	--	--	--	0	--	--	0	--	--	--	--	0	--	--	0	--	--	--	--	--	--	
51091C/51091	3	0	--	--	0	--	--	--	--	0	--	--	0	--	--	--	--	0	--	--	0	--	--	--	--	--	--	
62802C/50226	3	0	--	--	0	--	--	--	--	0	--	--	0	--	--	--	--	0	--	--	0	--	--	--	--	--	--	
Habitat Means			--	--		--	--	--	--		--	--		--	--	--	--		--	--		--	--	--	--	--	--	
Fisher's	Power		---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---	Power	---	
Stouffer's	Power		---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---	Power	---	

(a) Modified Shannon Index.

(b) Taxa richness calculations are explained in the methods.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.283, Page 1, December 15, 1994

Site Pair	Mvd	N	Total Invertebrates							Rock							Perennials (P)											
			C	SE	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	0	--	--	0	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--
51091C/51091	1	0	--	--	0	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--
62802C/50226	1	0	--	--	1	2.50	--	--	--	0	--	--	1	97.50	--	--	--	--	--	0	--	--	1	0.00	--	--	--	--
Habitat Means			--	--		2.50	--	--	--		--	--		97.50	--	--	--	--	--		--	--		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	---	---	---
50389C/50389	2	0	--	--	0	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--
51091C/51091	2	0	--	--	0	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--
62802C/50226	2	0	--	--	0	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--
Habitat Means			--	--		--	--	--	--		--	--		--	--	--	--	--	--		--	--		--	--	--	--	--
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	0	--	--	0	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--
51091C/51091	3	0	--	--	0	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--
62802C/50226	3	0	--	--	0	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--
Habitat Means			--	--		--	--	--	--		--	--		--	--	--	--	--	--		--	--		--	--	--	--	--
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 &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.283, Page 2, December 15, 1994

Table C-5.283. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Coarse Textured. June 1991. Cleared September 1989. (Continued.)

Site Pair	Mvd	N	Annuals (A)								Ephemerals (AE)								N	C	SE	N	O	SE	CV	D	P	
			C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D										P
50389C/50389	1	0	--	--	0	--	--	--	---	0	--	--	0	--	--	--	--	---										
51091C/51091	1	0	--	--	0	--	--	--	---	0	--	--	0	--	--	--	--	---										
62802C/50226	1	0	--	--	1	0.00	--	--	---	0	--	--	1	0.00	--	--	--	---										
Habitat Means			--	--		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	2	0	--	--	0	--	--	--	---	0	--	--	0	--	--	--	--	---										
51091C/51091	2	0	--	--	0	--	--	--	---	0	--	--	0	--	--	--	--	---										
62802C/50226	2	0	--	--	0	--	--	--	---	0	--	--	0	--	--	--	--	---										
Habitat Means			--	--		--	--				--	--		--	--													
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	0	--	--	0	--	--	--	---	0	--	--	0	--	--	--	--	---										
51091C/51091	3	0	--	--	0	--	--	--	---	0	--	--	0	--	--	--	--	---										
62802C/50226	3	0	--	--	0	--	--	--	---	0	--	--	0	--	--	--	--	---										
Habitat Means			--	--		--	--				--	--		--	--													
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 5.283, Page 3, December 15, 1994

Table C-5.284. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Coarse Textured. June 1991. Cleared September 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 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	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---
51091C/51091	1	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---
62802C/50226	1	0	--	--	1	0.00	--	--	--	---	0	--	--	1	0.00	--	--	--	---	0	--	--	1	0.00	--	--	--	---	---
Habitat Means			--	--		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	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---
51091C/51091	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---
62802C/50226	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---
Habitat Means			--	--		--	--				--	--	--		--	--				--	--	--		--	--				
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	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---
51091C/51091	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---
62802C/50226	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---
Habitat Means			--	--		--	--				--	--	--		--	--				--	--	--		--	--				
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) Kormannia, Monostroma, Ulva and Ulvaria.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.284. Page 1. December 15, 1994

Morphological Group: Pine 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	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---
51091C/51091	1	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---
62802C/50226	1	0	--	--	1	0.00	--	--	--	---	0	--	--	1	0.00	--	--	--	---	0	--	--	1	0.00	--	--	--	---	---
Habitat Means			--	--		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	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---
51091C/51091	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---
62802C/50226	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---
Habitat Means			--	--		--	--				--	--	--		--	--				--	--	--		--	--				
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	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---
51091C/51091	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---
62802C/50226	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---
Habitat Means			--	--		--	--				--	--	--		--	--				--	--	--		--	--				
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 &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.284. Page 2. December 15, 1994

Table C-5.284. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Coarse Textured. June 1991. Cleared September 1989. (Continued.)

site Pair	Mvd	N	Morphological Group: Tubular and Saccate Greens							Blidingia/Enteromorpha (AE) (a)														Z
			C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	F					
50389C/50389	1	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	---	---					
51091C/51091	1	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	---	---					
62802C/50226	1	0	--	--	1	0.00	--	-	---	0	--	--	1	0.00	--	-	---	---	---					
Habitat Means			--	--		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	2	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	---	---					
51091C/51091	2	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	---	---					
62802C/50226	2	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	---	---					
Habitat Means			--	--		--	--				--	--		--	--									
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	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	---	---					
51091C/51091	3	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	---	---					
62802C/50226	3	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	---	---					
Habitat Means			--	--		--	--				--	--		--	--									
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 &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.285. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Coarse Textured. June 1991. Cleared September 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	
50389C/50389	1	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--
51091C/51091	1	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--
62802C/50226	1	0	--	--	1	0.00	--	--	--	--	0	--	--	1	0.00	--	--	--	--	--	0	--	--	1	0.00	--	--	--	--
Habitat Means			--	--	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	2	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--
51091C/51091	2	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--
62802C/50226	2	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--
Habitat Means			--	--	0	--	--	--	--	--		--	--	0	--	--	--	--	--	--		--	--	0	--	--	--	--	--
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	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--
51091C/51091	3	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--
62802C/50226	3	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--
Habitat Means			--	--	0	--	--	--	--	--		--	--	0	--	--	--	--	--	--		--	--	0	--	--	--	--	--
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-5.285, Page 1, December 15, 1994)

Adult <i>Fucus gardneri</i> (P) (> 2cm)											Juvenile <i>Fucus gardneri</i> (P) (<= 2cm)										<i>Fucus</i> 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	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--	
51091C/51091	1	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--		
62802C/50226	1	0	--	--	1	0.00	--	--	--	--	0	--	--	1	0.00	--	--	--	--	--	0	--	--	1	0.00	--	--	--		
Habitat Means			--	--	0.00	--	--	--	--	--		--	--	0.00	--	--	--	--	--	--		--	--	0.00	--	--	--	--		
Fisher's	Power				Power-50%						Power			Power-50%						Power			Power-50%							
Stouffer's	Power				Power-50%						Power			Power-50%						Power			Power-50%							
50389C/50389	2	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--		
51091C/51091	2	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--		
62802C/50226	2	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--		
Habitat Means			--	--	0	--	--	--	--	--		--	--	0	--	--	--	--	--	--		--	--	0	--	--	--	--		
Fisher's	Power				Power-50%						Power			Power-50%						Power			Power-50%							
Stouffer's	Power				Power-50%						Power			Power-50%						Power			Power-50%							
50389C/50389	3	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--		
51091C/51091	3	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--		
62802C/50226	3	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--		
Habitat Means			--	--	0	--	--	--	--	--		--	--	0	--	--	--	--	--	--		--	--	0	--	--	--	--		
Fisher's	Power				Power-50%						Power			Power-50%						Power			Power-50%							
Stouffer's	Power				Power-50%						Power			Power-50%						Power			Power-50%							

(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 5.285, Page 2, December 15, 1994

Table C-5.285. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Coarse Textured. June 1991. Cleared September 1989. (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	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	
51091C/51091	1	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--		
62802C/50226	1	0	--	--	1	0.00	--	--	--	--	0	--	--	1	0.00	--	--	--	--	0	--	--	1	0.00	--	--	--	--		
Habitat Means			--	--		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	2	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--		
51091C/51091	2	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--		
62802C/50226	2	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--		
Habitat Means			--	--		--	--	--	--	--		--	--		--	--	--	--	--		--	--		--	--	--	--	--		
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	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--		
51091C/51091	3	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--		
62802C/50226	3	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--		
Habitat Means			--	--		--	--	--	--	--		--	--		--	--	--	--	--		--	--		--	--	--	--	--		
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 &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.285. Page 3. December 15, 1994

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	0	--	--	0	--	--	--	--	--																			
51091C/51091	1	0	--	--	0	--	--	--	--	--																			
62802C/50226	1	0	--	--	1	0.00	--	--	--	--																			
Habitat Means			--	--		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	2	0	--	--	0	--	--	--	--	--																			
51091C/51091	2	0	--	--	0	--	--	--	--	--																			
62802C/50226	2	0	--	--	0	--	--	--	--	--																			
Habitat Means			--	--		--	--	--	--	--																			
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	0	--	--	0	--	--	--	--	--																			
51091C/51091	3	0	--	--	0	--	--	--	--	--																			
62802C/50226	3	0	--	--	0	--	--	--	--	--																			
Habitat Means			--	--		--	--	--	--	--																			
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 &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.285. Page 4. December 15, 1994

Table C-5.286. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Coarse Textured. June 1991. Cleared September 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											Gigartinales 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	0	--	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--			
51091C/51091 1	0	--	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--			
62802C/50226 1	0	--	--	--	1	0.00	--	--	--	--	0	--	--	1	0.00	--	--	--	--	--	0	--	--	1	0.00	--	--	--	--			
Habitat Means		--	--	--		0.00	--	--	--	--		--	--		0.00	--	--	--	--	--		--	--		0.00	--	--	--	--			
Fisher's	Power				Power-50%						Power			Power-50%						Power			Power-50%									
Stouffer's	Power				Power-50%						Power			Power-50%						Power			Power-50%									
50389C/50389 2	0	--	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--			
51091C/51091 2	0	--	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--			
62802C/50226 2	0	--	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--			
Habitat Means		--	--	--		--	--	--	--	--		--	--		--	--	--	--	--	--		--	--		--	--	--	--	--			
Fisher's	Power				Power-50%						Power			Power-50%						Power			Power-50%									
Stouffer's	Power				Power-50%						Power			Power-50%						Power			Power-50%									
50389C/50389 3	0	--	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--			
51091C/51091 3	0	--	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--			
62802C/50226 3	0	--	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--			
Habitat Means		--	--	--		--	--	--	--	--		--	--		--	--	--	--	--	--		--	--		--	--	--	--	--			
Fisher's	Power				Power-50%						Power			Power-50%						Power			Power-50%									
Stouffer's	Power				Power-50%						Power			Power-50%						Power			Power-50%									

(a) Gelidium, Jilidaea, 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-5.286, Page 1, December 15, 1994

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						
51091C/51091 1	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--					
62802C/50226 1	0	--	--	1	0.00	--	--	--	--	--	0	--	--	1	0.00	--	--	--	--	--	0	--	--	1	0.00	--	--	--	--					
Habitat Means		--	--		0.00	--	--	--	--	--		--	--		0.00	--	--	--	--	--		--	--			0.00	--	--	--					
Fisher's	Power				Power-50%						Power				Power-50%					Power					Power-50%				Power					
Stouffer's	Power				Power-50%						Power				Power-50%					Power					Power-50%				Power					
50389C/50389 2	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--					
51091C/51091 2	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--					
62802C/50226 2	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--					
Habitat Means		--	--		--	--	--	--	--	--		--	--		--	--	--	--	--	--		--	--			--	--	--	--					
Fisher's	Power				Power-50%						Power				Power-50%					Power					Power-50%				Power					
Stouffer's	Power				Power-50%						Power				Power-50%					Power					Power-50%				Power					
50389C/50389 3	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--					
51091C/51091 3	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--					
62802C/50226 3	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--					
Habitat Means		--	--		--	--	--	--	--	--		--	--		--	--	--	--	--	--		--	--			--	--	--	--					
Fisher's	Power				Power-50%						Power				Power-50%					Power					Power-50%				Power					
Stouffer's	Power				Power-50%						Power				Power-50%					Power					Power-50%				Power					

x At least one site pair p-value < 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.286, Page 2, December 15, 1994

Table C-5.286. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Coarse Textured. June 1991. Cleared September 1989. (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				
51091C/51091	1	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---				
62802C/50226	1	0	--	--	1	0.00	--	--	--	---	0	--	--	1	0.00	--	--	--	---	0	--	--	1	0.00	--	--	--	---				
Habitat Means			--	--	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	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---				
51091C/51091	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---				
62802C/50226	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---				
Habitat Means			--	--		--	--	--	--	---		--	--		--	--	--	--	---		--	--		--	--	--	--	---				
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	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---				
51091C/51091	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---				
62802C/50226	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---				
Habitat Means			--	--		--	--	--	--	---		--	--		--	--	--	--	---		--	--		--	--	--	--	---				
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-5.286. Page 3. December 15, 1994

Halosaccion glandiforme (A)											Morphological Group: Fine Filamentous Reds											Polyisiphonia/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	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---				
51091C/51091	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---				
62802C/50226	1	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---				
Habitat Means			--	--		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	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---				
51091C/51091	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---				
62802C/50226	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---				
Habitat Means			--	--		--	--	--		---		--	--		--	--	--		---		--	--		--	--	--		---				
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	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---				
51091C/51091	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---				
62802C/50226	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---				
Habitat Means			--	--		--	--	--		---		--	--		--	--	--		---		--	--		--	--	--		---				
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-5.286. Page 4. December 15, 1994



Table C-5.286. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Coarse Textured. June 1991. Cleared September 1989. (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	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---												
51091C/51091	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---												
62802C/50226	1	0	--	--	1	0.00	--	-	---	---	0	--	--	1	0.00	--	-	---	---	---												
Habitat Means			--	--		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	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---												
51091C/51091	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---												
62802C/50226	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---												
Habitat Means			--	--		--	--					--	--		--	--																
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	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---												
51091C/51091	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---												
62802C/50226	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---												
Habitat Means			--	--		--	--					--	--		--	--																
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-5.286. Page 5. December 15, 1994

Table C-5.287. Algal Percent Cover. Invertebrates. Cook Inlet/Kenai, Coarse Textured. June 1991. Cleared September 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.

Balanomorphs											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	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	
51091C/51091	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	
62802C/50226	1	0	--	--	1	2.50	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	
Habitat Means			--	--		2.50	--					--	--		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	---					
50389C/50389	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	
51091C/51091	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	
62802C/50226	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	
Habitat Means			--	--		--	--					--	--		--	--					--	--		--	--							
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	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	
51091C/51091	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	
62802C/50226	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	
Habitat Means			--	--		--	--					--	--		--	--					--	--		--	--							
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-5.287, Page 1, December 15, 1994

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				
Habitat Means			--	--	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	2 0	--	--	0	--	--	--	--	--	---									---													
51091C/51091	2 0	--	--	0	--	--	--	--	--	---									---													
62802C/50226	2 0	--	--	0	--	--	--	--	--	---									---													
Habitat Means			--	--			--																									
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 0	--	--	0	--	--	--	--	--	---									---													
51091C/51091	3 0	--	--	0	--	--	--	--	--	---									---													
62802C/50226	3 0	--	--	0	--	--	--	--	--	---									---													
Habitat Means			--	--			--																									
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-5.287, Page 2, December 15, 1994

**Table C-5.288. Algal Percent Cover. Substrates. Cook Inlet/Kenai. Coarse Textured. June 1991. Cleared September 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	N	Rock							Mud							Sand												
			C	SE	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	0	--	--	0	--	--	--	--	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	--
51091C/51091	1	0	--	--	0	--	--	--	--	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	--
62802C/50226	1	0	--	--	1	97.50	--	--	--	0	--	--	1	0.00	--	--	--	--	0	--	--	1	0.00	--	--	--	--	--	--
Habitat Means			--	--	97.50	--	--	--	--	--	--	--	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	---				---
50389C/50389	2	0	--	--	0	--	--	--	--	0	--	--	0	--	--	--	--	0	--	--	0	--	--	0	--	--	--	--	--
51091C/51091	2	0	--	--	0	--	--	--	--	0	--	--	0	--	--	--	--	0	--	--	0	--	--	0	--	--	--	--	--
62802C/50226	2	0	--	--	0	--	--	--	--	0	--	--	0	--	--	--	--	0	--	--	0	--	--	0	--	--	--	--	--
Habitat Means			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	0	--	--	0	--	--	--	--	0	--	--	0	--	--	--	--	0	--	--	0	--	--	0	--	--	--	--	--
51091C/51091	3	0	--	--	0	--	--	--	--	0	--	--	0	--	--	--	--	0	--	--	0	--	--	0	--	--	--	--	--
62802C/50226	3	0	--	--	0	--	--	--	--	0	--	--	0	--	--	--	--	0	--	--	0	--	--	0	--	--	--	--	--
Habitat Means			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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-5.288. Page 1. December 15, 1994

Shell Fragments										Eostera/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	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--
51091C/51091	1	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--
62802C/50226	1	0	--	--	1	0.00	--	--	--	--	0	--	--	1	0.00	--	--	--	--	--	0	--	--	1	0.00	--	--	--	--
Habitat Means			--	--		0.00	--	--	--	--		--	--		0.00	--	--	--	--	--		--	--		0.00	--	--	--	--
Fisher's	Power		---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---		Power
Stouffer's	Power		---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---		Power
50389C/50389	2	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--
51091C/51091	2	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--
62802C/50226	2	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--
Habitat Means			--	--		--	--	--	--	--		--	--		--	--	--	--	--	--		--	--		--	--	--	--	--
Fisher's	Power		---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---		Power
Stouffer's	Power		---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---		Power
50389C/50389	3	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--
51091C/51091	3	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--
62802C/50226	3	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--
Habitat Means			--	--		--	--	--	--	--		--	--		--	--	--	--	--	--		--	--		--	--	--	--	--
Fisher's	Power		---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---		Power
Stouffer's	Power		---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---		Power

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

Table C-5.288. Page 2. December 15, 1994

Table C-5.288. Algal Percent Cover. Substrates. Cook Inlet/Kenai. Coarse Textured. June 1991. Cleared September 1989. (Continued.)

Site Pair	Mvd	N	Total Substrate																									
			C	SE	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	0	--	--	0	--	--	--	---																			
51091C/51091	1	0	--	--	0	--	--	--	---																			
62802C/50226	1	0	--	--	1	97.50	--	--	---																			
Habitat Means			--	--		97.50	--																					
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	2	0	--	--	0	--	--	--	---																			
51091C/51091	2	0	--	--	0	--	--	--	---																			
62802C/50226	2	0	--	--	0	--	--	--	---																			
Habitat Means			--	--		--	--																					
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	0	--	--	0	--	--	--	---																			
51091C/51091	3	0	--	--	0	--	--	--	---																			
62802C/50226	3	0	--	--	0	--	--	--	---																			
Habitat Means			--	--		--	--																					
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-5.288. Page 3. December 15, 1994

Table C-5.289. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kanai. Estuarine. June 1991. Cleared September 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; 0 = control = oiled; P = probability value; dashes = insufficient data.

Site Pair	Mvd	N	Algal Diversity Index (a)							Algal Taxa Richness (b)							Total Algae											
			C	SE	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	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
50981C/50221	1	0	--	--	1	0.00	--	-	---	---	0	--	--	1	0.00	--	-	---	---	0	--	--	1	0.00	--	-	---	---
50981C/50981	1	0	--	--	1	0.00	--	-	---	---	0	--	--	1	0.00	--	-	---	---	0	--	--	1	0.00	--	-	---	---
Habitat Means			--	--		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	---	---
C15.1C/C15.1	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
50981C/50221	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
50981C/50981	2	0	--	--	1	0.00	--	-	---	---	0	--	--	1	0.00	--	-	---	---	0	--	--	1	0.00	--	-	---	---
Habitat Means			--	--		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	---	---
C15.1C/C15.1	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
50981C/50221	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
50981C/50981	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
Habitat Means			--	--			--					--	--			--					--	--			--			
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.

Table C-5.289, Page 1, December 15, 1994

Site Pair	Mvd	N	Total Invertebrates							Rock							Perennials (P)											
			C	SE	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	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---
50981C/50221 1	0	--	--	1	0.00	--	-	---	---	0	--	--	1	100.00	--	-	---	---	0	--	--	1	0.00	--	-	---	---	---
50981C/50981 1	0	--	--	1	0.00	--	-	---	---	0	--	--	1	100.00	--	-	---	---	0	--	--	1	0.00	--	-	---	---	---
Habitat Means		--	--		0.00	--					--	--		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	---	---	---	---
C15.1C/C15.1 2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---
50981C/50221 2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---
50981C/50981 2	0	--	--	1	0.00	--	-	---	---	0	--	--	1	100.00	--	-	---	---	0	--	--	1	0.00	--	-	---	---	---
Habitat Means		--	--		0.00	--					--	--		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	---	---	---	---
C15.1C/C15.1 3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---
50981C/50221 3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---
50981C/50981 3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---
Habitat Means		--	--			--					--	--			--					--	--			--				
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-5.289, Page 2, December 15, 1994

Table C-5.289. Algal Percent Cover, Totals and Seasonal Groups, Cook Inlet/Kenai, Estuarine, June 1991, Cleared September 1989. (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			
50981C/50221	1	0	--	--	1	0.00	--	-	---	0	--	--	1	0.00	--	-	---												
50981C/50981	1	0	--	--	1	0.00	--	-	---	0	--	--	1	0.00	--	-	---												
Habitat Means			--	--		0.00	--				--	--		0.00	--														
Fisher's	Power		---		Power-50%		---	P-value	---	Power		---	Power-50%		---	P-value	---	Power		---	Power-50%		---	P-value	---	Power			
Stouffer's	Power		---		Power-50%		---	P-value	---	Power		---	Power-50%		---	P-value	---	Power		---	Power-50%		---	P-value	---	Power			
C15.1C/C15.1	2	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---												
50981C/50221	2	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---												
50981C/50981	2	0	--	--	1	0.00	--	-	---	0	--	--	1	0.00	--	-	---												
Habitat Means			--	--		0.00	--				--	--		0.00	--														
Fisher's	Power		---		Power-50%		---	P-value	---	Power		---	Power-50%		---	P-value	---	Power		---	Power-50%		---	P-value	---	Power			
Stouffer's	Power		---		Power-50%		---	P-value	---	Power		---	Power-50%		---	P-value	---	Power		---	Power-50%		---	P-value	---	Power			
C15.1C/C15.1	3	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---												
50981C/50221	3	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---												
50981C/50981	3	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---												
Habitat Means			--	--		--	--				--	--		--	--														
Fisher's	Power		---		Power-50%		---	P-value	---	Power		---	Power-50%		---	P-value	---	Power		---	Power-50%		---	P-value	---	Power			
Stouffer's	Power		---		Power-50%		---	P-value	---	Power		---	Power-50%		---	P-value	---	Power		---	Power-50%		---	P-value	---	Power			

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

Table C-5.290. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Estuarine. June 1991. Cleared September 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 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	0	--	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	--	0	--	--	--	--	---
50981C/50221 1	0	--	--	--	1	0.00	--	--	--	---	0	--	--	1	0.00	--	--	--	---	0	--	--	--	1	0.00	--	--	---	
50981C/50981 1	0	--	--	--	1	0.00	--	--	--	---	0	--	--	1	0.00	--	--	--	---	0	--	--	--	1	0.00	--	--	---	
Habitat Means		--	--	--		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		---
C15.1C/C15.1 2	0	--	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	--	0	--	--	--	--	---
50981C/50221 2	0	--	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	--	0	--	--	--	--	---
50981C/50981 2	0	--	--	--	1	0.00	--	--	--	---	0	--	--	1	0.00	--	--	--	---	0	--	--	--	1	0.00	--	--	---	
Habitat Means		--	--	--		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		---
C15.1C/C15.1 3	0	--	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	--	0	--	--	--	--	---
50981C/50221 3	0	--	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	--	0	--	--	--	--	---
50981C/50981 3	0	--	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	--	0	--	--	--	--	---
Habitat Means		--	--	--			--	--		---		--	--			--	--		---		--	--				--	--		---
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) *Wormmannia*, *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.

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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	0	--	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	
50981C/50221 1	0	--	--	--	1	0.00	--	--	--	---	0	--	--	1	0.00	--	--	--	---	0	--	--	1	0.00	--	--	---		
50981C/50981 1	0	--	--	--	1	0.00	--	--	--	---	0	--	--	1	0.00	--	--	--	---	0	--	--	1	0.00	--	--	---		
Habitat Means		--	--	--		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		---	
C15.1C/C15.1 2	0	--	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	
50981C/50221 2	0	--	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	
50981C/50981 2	0	--	--	--	1	0.00	--	--	--	---	0	--	--	1	0.00	--	--	--	---	0	--	--	1	0.00	--	--	---		
Habitat Means		--	--	--		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		---	
C15.1C/C15.1 3	0	--	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	
50981C/50221 3	0	--	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	
50981C/50981 3	0	--	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	
Habitat Means		--	--	--			--	--		---		--	--			--	--		---		--	--			--	--		---	
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-5.290. Page 2. December 15, 1994

Table C-5.290. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Estuarine. June 1991. Cleared September 1989. (Continued.)

Site Pair	Mvd	N	Urospora sp. (AE)							Morphological Group: Tubular and Saccate Greens							Blidingia/Enteromorpha (AE) (a)												
			C	SE	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	0	--	--	0	--	--	-	---	0	--	--	0	--	--	0	--	-	---	0	--	--	0	--	--	-	---	0	--	---
50981C/50221 1	0	--	--	1	0.00	--	-	---	0	--	--	1	0.00	--	-	-	---	0	--	--	1	0.00	--	-	---	0	--	---	
50981C/50981 1	0	--	--	1	0.00	--	-	---	0	--	--	1	0.00	--	-	-	---	0	--	--	1	0.00	--	-	---	0	--	---	
Habitat Means		--	--		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	---	---	---	---	---	
C15.1C/C15.1 2	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	-	---	0	--	--	0	--	--	-	---	0	--	---	
50981C/50221 2	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	-	---	0	--	--	0	--	--	-	---	0	--	---	
50981C/50981 2	0	--	--	1	0.00	--	-	---	0	--	--	1	0.00	--	-	-	---	0	--	--	1	0.00	--	-	---	0	--	---	
Habitat Means		--	--		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	---	---	---	---	---	
C15.1C/C15.1 3	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	-	---	0	--	--	0	--	--	-	---	0	--	---	
50981C/50221 3	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	-	---	0	--	--	0	--	--	-	---	0	--	---	
50981C/50981 3	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	-	---	0	--	--	0	--	--	-	---	0	--	---	
Habitat Means		--	--		--	--	-			--	--		--	--	-				--	--	--		--	--	-				
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) Genesee not represented.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C 5.290. Page 3. December 13, 1994



Table C-5.291. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Estuarine. June 1991. Cleared September 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	
C15.1C/C15.1 1	0		--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--
50981C/50221 1	0		--	--	1	0.00	--	--	--	--	0	--	--	1	0.00	--	--	--	--	0	--	--	1	0.00	--	--	--	--	
50981C/50981 1	0		--	--	1	0.00	--	--	--	--	0	--	--	1	0.00	--	--	--	--	0	--	--	1	0.00	--	--	--	--	
Habitat Means			--	--	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	---	---	
C15.1C/C15.1 2	0		--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	
50981C/50221 2	0		--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	0	--	--	0	--	1	0.00	--	--	
50981C/50981 2	0		--	--	1	0.00	--	--	--	--	0	--	--	1	0.00	--	--	--	--	0	--	--	1	0.00	--	--	--	--	
Habitat Means			--	--	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	---	---	
C15.1C/C15.1 3	0		--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	
50981C/50221 3	0		--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	
50981C/50981 3	0		--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	
Habitat Means			--	--	--	--	--	--	--	--		--	--	--	--	--	--	--	--		--	--	--	--	--	--	--	--	
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-5.291. Page 1. December 15, 1994

Adult <i>Fucus gardneri</i> (P) (> 2cm)										Juvenile <i>Fucus gardneri</i> (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	0	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---
50981C/50221 1	0	0	--	--	1	0.00	--	--	--	---	0	--	--	1	0.00	--	--	--	---	0	--	--	1	0.00	--	--	--	---	---
50981C/50981 1	0	0	--	--	1	0.00	--	--	--	---	0	--	--	1	0.00	--	--	--	---	0	--	--	1	0.00	--	--	--	---	---
Habitat Means			--	--	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	---	---	---
C15.1C/C15.1 2	0	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---
50981C/50221 2	0	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---
50981C/50981 2	0	0	--	--	1	0.00	--	--	--	---	0	--	--	1	0.00	--	--	--	---	0	--	--	1	0.00	--	--	--	---	---
Habitat Means			--	--	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	---	---	---
C15.1C/C15.1 3	0	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---
50981C/50221 3	0	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---
50981C/50981 3	0	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---
Habitat Means			--	--	0	--	--	--	--	---		--	--	0	--	--	--	--	---		--	--	0	--	--	--	--	---	---
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 5.291. Page 2. December 15, 1994

Table C-5.291. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Estuarine. June 1991. Cleared September 1989. (Continued.)

Petalonia/Punctaria (AE) (b)											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	
C15.1C/C15.1 1	0	--	--	--	0	--	--	--	--	--	0	--	--	--	0	--	--	--	--	--	0	--	--	--	0	--	--	--	--
50981C/50221 1	0	--	--	--	1	0.00	--	--	--	--	0	--	--	--	1	0.00	--	--	--	--	0	--	--	--	1	0.00	--	--	--
50981C/50981 1	0	--	--	--	1	0.00	--	--	--	--	0	--	--	--	1	0.00	--	--	--	--	0	--	--	--	1	0.00	--	--	--
Habitat Means		--	--	--	0.00	--	--	--	--	--		--	--	--	0.00	--	--	--	--	--		--	--	--	0.00	--	--	--	--
Fisher's	Power	---	---	---	Power-50%	---	---	---	---	---	Power	---	---	---	Power-50%	---	---	---	---	---	Power	---	---	---	Power-50%	---	---	---	---
Stouffer's	Power	---	---	---	Power-50%	---	---	---	---	---	Power	---	---	---	Power-50%	---	---	---	---	---	Power	---	---	---	Power-50%	---	---	---	---
C15.1C/C15.1 2	0	--	--	--	0	--	--	--	--	--	0	--	--	--	0	--	--	--	--	--	0	--	--	--	0	--	--	--	--
50981C/50221 2	0	--	--	--	0	--	--	--	--	--	0	--	--	--	0	--	--	--	--	--	0	--	--	--	0	--	--	--	--
50981C/50981 2	0	--	--	--	1	0.00	--	--	--	--	0	--	--	--	1	0.00	--	--	--	--	0	--	--	--	1	0.00	--	--	--
Habitat Means		--	--	--	0.00	--	--	--	--	--		--	--	--	0.00	--	--	--	--	--		--	--	--	0.00	--	--	--	--
Fisher's	Power	---	---	---	Power-50%	---	---	---	---	---	Power	---	---	---	Power-50%	---	---	---	---	---	Power	---	---	---	Power-50%	---	---	---	---
Stouffer's	Power	---	---	---	Power-50%	---	---	---	---	---	Power	---	---	---	Power-50%	---	---	---	---	---	Power	---	---	---	Power-50%	---	---	---	---
C15.1C/C15.1 3	0	--	--	--	0	--	--	--	--	--	0	--	--	--	0	--	--	--	--	--	0	--	--	--	0	--	--	--	--
50981C/50221 3	0	--	--	--	0	--	--	--	--	--	0	--	--	--	0	--	--	--	--	--	0	--	--	--	0	--	--	--	--
50981C/50981 3	0	--	--	--	0	--	--	--	--	--	0	--	--	--	0	--	--	--	--	--	0	--	--	--	0	--	--	--	--
Habitat Means		--	--	--		--	--	--	--	--		--	--	--		--	--	--	--	--		--	--	--		--	--	--	--
Fisher's	Power	---	---	---	Power-50%	---	---	---	---	---	Power	---	---	---	Power-50%	---	---	---	---	---	Power	---	---	---	Power-50%	---	---	---	---
Stouffer's	Power	---	---	---	Power-50%	---	---	---	---	---	Power	---	---	---	Power-50%	---	---	---	---	---	Power	---	---	---	Power-50%	---	---	---	---

(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.

Table C 5.291. Page 3. December 15, 1994

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	
50981C/50221	1	0	--	--	1	0.00	--	--	--	--	--	0	--	--	1	0.00	--	--	--	--	--									
50981C/50981	1	0	--	--	1	0.00	--	--	--	--	--	0	--	--	1	0.00	--	--	--	--	--									
Habitat Means			--	--		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
C15.1C/C15.1	2	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--									
50981C/50221	2	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--									
50981C/50981	2	0	--	--	1	0.00	--	--	--	--	--	0	--	--	1	0.00	--	--	--	--	--									
Habitat Means			--	--		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
C15.1C/C15.1	3	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--									
50981C/50221	3	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--									
50981C/50981	3	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--									
Habitat Means			--	--		--			--				--	--		--														
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 5.291. Page 4. December 15, 1994

**Table C-5.292. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Estuarine. June 1991. Cleared September 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; 0 = 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	0	--	--	0	--	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	
50981C/50221 1	0	--	--	1	0.00	--	--	--	--	---	0	--	--	1	0.00	--	--	--	---	0	--	--	1	0.00	--	--	--	---	0	--	--	
50981C/50981 1	0	--	--	1	0.00	--	--	--	--	---	0	--	--	1	0.00	--	--	--	---	0	--	--	1	0.00	--	--	--	---	0	--	--	
Habitat Means		--	--	--	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	---		
C15.1C/C15.1 2	0	--	--	0	--	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	
50981C/50221 2	0	--	--	0	--	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	
50981C/50981 2	0	--	--	1	0.00	--	--	--	--	---	0	--	--	1	0.00	--	--	--	---	0	--	--	1	0.00	--	--	--	---	0	--	--	
Habitat Means		--	--	--	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	---		
C15.1C/C15.1 3	0	--	--	0	--	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	
50981C/50221 3	0	--	--	0	--	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	
50981C/50981 3	0	--	--	0	--	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	
Habitat Means		--	--	--	--	--	--	--	--	---		--	--	--	--	--	--	--	---		--	--	--	--	--	--	--	---		--	--	
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 5.292, Page 1, December 15, 1994

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	0	--	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	
50981C/50221 1	0	--	--	--	1	0.00	--	--	--	---	0	--	--	1	0.00	--	--	--	---	0	--	--	1	0.00	--	--	--	---	0	--	--	
50981C/50981 1	0	--	--	--	1	0.00	--	--	--	---	0	--	--	1	0.00	--	--	--	---	0	--	--	1	0.00	--	--	--	---	0	--	--	
Habitat Means		--	--	--	--	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	---		
C15.1C/C15.1 2	0	--	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	
50981C/50221 2	0	--	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	
50981C/50981 2	0	--	--	--	1	0.00	--	--	--	---	0	--	--	1	0.00	--	--	--	---	0	--	--	1	0.00	--	--	--	---	0	--	--	
Habitat Means		--	--	--	--	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	---		
C15.1C/C15.1 3	0	--	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	
50981C/50221 3	0	--	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	
50981C/50981 3	0	--	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	
Habitat Means		--	--	--	--	--	--	--	--	---		--	--	--	--	--	--	--	---		--	--	--	--	--	--	--	---		--	--	
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-5.292, Page 2, December 15, 1994

Table C-5.292. Algal Percent Cover. Rhodophyta. Cook Inlet/Kanai. Estuarine. June 1991. Cleared September 1989. (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	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--
50981C/50221	1	0	--	--	1	0.00	--	--	--	--	0	--	--	1	0.00	--	--	--	--	--	0	--	--	1	0.00	--	--	--	--
50981C/50981	1	0	--	--	1	0.00	--	--	--	--	0	--	--	1	0.00	--	--	--	--	--	0	--	--	1	0.00	--	--	--	--
Habitat Means			--	--	0.00	--	--	--	--	--		--	--	0.00	--	--	--	--	--	--		--	--	0.00	--	--	--	--	--
Fisher's	Power		---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---		Power
Stouffer's	Power		---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---		Power
C15.1C/C15.1	2	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--
50981C/50221	2	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--
50981C/50981	2	0	--	--	1	0.00	--	--	--	--	0	--	--	1	0.00	--	--	--	--	--	0	--	--	1	0.00	--	--	--	--
Habitat Means			--	--	0.00	--	--	--	--	--		--	--	0.00	--	--	--	--	--	--		--	--	0.00	--	--	--	--	--
Fisher's	Power		---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---		Power
Stouffer's	Power		---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---		Power
C15.1C/C15.1	3	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--
50981C/50221	3	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--
50981C/50981	3	0	--	--	0	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--
Habitat Means			--	--	0	--	--	--	--	--		--	--	0	--	--	--	--	--	--		--	--	0	--	--	--	--	--
Fisher's	Power		---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---		Power
Stouffer's	Power		---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---		Power

(a) Canera 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.

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		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	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--
50981C/50221 1	0	--	--	1	0.00	--	--	--	--	--	0	--	--	1	0.00	--	--	--	--	--	0	--	--	1	0.00	--	--	--	--
50981C/50981 1	0	--	--	1	0.00	--	--	--	--	--	0	--	--	1	0.00	--	--	--	--	--	0	--	--	1	0.00	--	--	--	--
Habitat Means		--	--	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	---	---
C15.1C/C15.1 2	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--
50981C/50221 2	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--
50981C/50981 2	0	--	--	1	0.00	--	--	--	--	--	0	--	--	1	0.00	--	--	--	--	--	0	--	--	1	0.00	--	--	--	--
Habitat Means		--	--	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	---	---
C15.1C/C15.1 3	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--
50981C/50221 3	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--
50981C/50981 3	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--
Habitat Means		--	--	0	--	--	--	--	--	--		--	--	0	--	--	--	--	--	--		--	--	0	--	--	--	--	--
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-5.292. Page 4. December 15, 1994

Table C-5.292. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Estuarine. June 1991. Cleared September 1989. (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	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---
50981C/50221	1	0	--	--	1	0.00	--	--	--	---	0	--	--	1	0.00	--	--	--	---	0	--	--	1	0.00	--	--	--	---	---
50981C/50981	1	0	--	--	1	0.00	--	--	--	---	0	--	--	1	0.00	--	--	--	---	0	--	--	1	0.00	--	--	--	---	---
Habitat Means			--	--		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		---	---
C15.1C/C15.1	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---
50981C/50221	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---
50981C/50981	2	0	--	--	1	0.00	--	--	--	---	0	--	--	1	0.00	--	--	--	---	0	--	--	1	0.00	--	--	--	---	---
Habitat Means			--	--		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		---	---
C15.1C/C15.1	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---
50981C/50221	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---
50981C/50981	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---
Habitat Means			--	--		--	--	--	--	---		--	--		--	--	--	--	---		--	--		--	--	--	--	---	---
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-5.292, Page 5, December 15, 1994

Table C-5.293. Algal Percent Cover. Invertebrates. Cook Inlet/Kanai, Estuarine, June 1991. Cleared September 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												
50981C/50221	1	0	--	--	1	0.00	--	-	---	0	--	--	1	0.00	--	-	---	0	--	--	1	0.00	--	-	---	0	--	--	1	0.00	--	-	---							
50981C/50981	1	0	--	--	1	0.00	--	-	---	0	--	--	1	0.00	--	-	---	0	--	--	1	0.00	--	-	---	0	--	--	1	0.00	--	-	---							
Habitat Means			--	--		0.00	--				--	--			0.00	--					--	--			0.00	--														
Fisher's	Power				Power-50%			P-value			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			Power			Power-50%			P-value					
C15.1C/C15.1	2	0	--	--	0	--	--	-	---	0	--	--	0	--	--	--	-	---	0	--	--	0	--	--	0	--	--	--	-	---	0	--	--	-	---	0	--	--	-	---
50981C/50221	2	0	--	--	0	--	--	-	---	0	--	--	0	--	--	--	-	---	0	--	--	0	--	--	0	--	--	--	-	---	0	--	--	-	---	0	--	--	-	---
50981C/50981	2	0	--	--	1	0.00	--	-	---	0	--	--	1	0.00	--	-	---	0	--	--	1	0.00	--	-	---	0	--	--	1	0.00	--	-	---	0	--	--	-	---		
Habitat Means			--	--		0.00	--				--	--			0.00	--					--	--			0.00	--														
Fisher's	Power				Power-50%			P-value			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			Power			Power-50%			P-value					
C15.1C/C15.1	3	0	--	--	0	--	--	-	---	0	--	--	0	--	--	--	-	---	0	--	--	0	--	--	0	--	--	--	-	---	0	--	--	-	---	0	--	--	-	---
50981C/50221	3	0	--	--	0	--	--	-	---	0	--	--	0	--	--	--	-	---	0	--	--	0	--	--	0	--	--	--	-	---	0	--	--	-	---	0	--	--	-	---
50981C/50981	3	0	--	--	0	--	--	-	---	0	--	--	0	--	--	--	-	---	0	--	--	0	--	--	0	--	--	--	-	---	0	--	--	-	---	0	--	--	-	---
Habitat Means			--	--		--	--				--	--			--	--					--	--			--	--														
Fisher's	Power				Power-50%			P-value			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			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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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	0	--	--	0	--	--	-	---	---																						
50981C/50221	1	0	--	--	1	0.00	--	-	---	---																						
50981C/50981	1	0	--	--	1	0.00	--	-	---	---																						
Habitat Means			--	--		0.00	--																									
Fisher's	Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---	Power				
Stouffer's	Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---	Power				
C15.1C/C15.1	2	0	--	--	0	--	--	-	---	---																						
50981C/50221	2	0	--	--	0	--	--	-	---	---																						
50981C/50981	2	0	--	--	1	0.00	--	-	---	---																						
Habitat Means			--	--		0.00	--																									
Fisher's	Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---	Power				
Stouffer's	Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---	Power				
C15.1C/C15.1	3	0	--	--	0	--	--	-	---	---																						
50981C/50221	3	0	--	--	0	--	--	-	---	---																						
50981C/50981	3	0	--	--	0	--	--	-	---	---																						
Habitat Means			--	--		--	--																									
Fisher's	Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---	Power				
Stouffer's	Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---	Power				

x At least one site pair p-value < 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.293. Page 2. December 15, 1994

**Table C-5.294. Algal Percent Cover. Substrates. Cook Inlet/Kenai, Estuarine, June 1991, Cleared September 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	N	Rock							Mud							Sand											
			C	SE	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	0	--	--	0	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	0	--	--	---
50981C/50221	1	0	--	--	1	100.00	--	--	---	0	--	--	1	0.00	--	--	---	0	--	--	1	0.00	--	--	1	0.00	--	---
50981C/50981	1	0	--	--	1	100.00	--	--	---	0	--	--	1	0.00	--	--	---	0	--	--	1	0.00	--	--	1	0.00	--	---
Habitat Means			--	--		100.00	--	--	---		--	--		0.00	--	--	---		--	--		0.00	--	--		0.00	--	---
Fisher's	Power		---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---	Power	---		Power-50%		---	Power-50%		---	P-value	---
Stouffer's	Power		---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---	Power	---		Power-50%		---	Power-50%		---	P-value	---
C15.1C/C15.1	2	0	--	--	0	--	--	--	---	0	--	--	0	--	--	--	---	0	--	--	0	--	--	0	--	--	--	---
50981C/50221	2	0	--	--	0	--	--	--	---	0	--	--	0	--	--	--	---	0	--	--	0	--	--	0	--	--	--	---
50981C/50981	2	0	--	--	1	100.00	--	--	---	0	--	--	1	0.00	--	--	---	0	--	--	1	0.00	--	--	1	0.00	--	---
Habitat Means			--	--		100.00	--	--	---		--	--		0.00	--	--	---		--	--		0.00	--	--		0.00	--	---
Fisher's	Power		---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---	Power	---		Power-50%		---	Power-50%		---	P-value	---
Stouffer's	Power		---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---	Power	---		Power-50%		---	Power-50%		---	P-value	---
C15.1C/C15.1	3	0	--	--	0	--	--	--	---	0	--	--	0	--	--	--	---	0	--	--	0	--	--	0	--	--	--	---
50981C/50221	3	0	--	--	0	--	--	--	---	0	--	--	0	--	--	--	---	0	--	--	0	--	--	0	--	--	--	---
50981C/50981	3	0	--	--	0	--	--	--	---	0	--	--	0	--	--	--	---	0	--	--	0	--	--	0	--	--	--	---
Habitat Means			--	--		--	--	--	---		--	--		--	--	--	---		--	--		--	--		--	--	--	---
Fisher's	Power		---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---	Power	---		Power-50%		---	Power-50%		---	P-value	---
Stouffer's	Power		---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---	Power	---		Power-50%		---	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-5.294. Page 1. December 15, 1994

Site Pair	Mvd	N	Shell Fragments							Filamentous Diatoms							Zostera/Phyllospadix											
			C	SE	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	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	0	--	--	-	---
50981C/50221	1	0	--	--	1	0.00	--	-	---	0	--	--	1	0.00	--	-	---	0	--	--	1	0.00	--	1	0.00	--	-	---
50981C/50981	1	0	--	--	1	0.00	--	-	---	0	--	--	1	0.00	--	-	---	0	--	--	1	0.00	--	1	0.00	--	-	---
Habitat Means			--	--		0.00	--	-	---		--	--		0.00	--	-	---		--	--		0.00	--			--	-	---
Fisher's	Power		---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value			P-value	---
Stouffer's	Power		---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value			P-value	---
C15.1C/C15.1	2	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	0	--	--	-	---
50981C/50221	2	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	0	--	--	-	---
50981C/50981	2	0	--	--	1	0.00	--	-	---	0	--	--	1	0.00	--	-	---	0	--	--	1	0.00	--	1	0.00	--	-	---
Habitat Means			--	--		0.00	--	-	---		--	--		0.00	--	-	---		--	--		0.00	--			--	-	---
Fisher's	Power		---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value			P-value	---
Stouffer's	Power		---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value			P-value	---
C15.1C/C15.1	3	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	0	--	--	-	---
50981C/50221	3	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	0	--	--	-	---
50981C/50981	3	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	0	--	--	-	---
Habitat Means			--	--		--	--	-	---		--	--		--	--	-	---		--	--		--	--			--	-	---
Fisher's	Power		---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value			P-value	---
Stouffer's	Power		---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value			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-5.294. Page 2. December 15, 1994

Table C-5.294. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Estuarine. June 1991. Cleared September 1989. (Continued.)

Site Pair	Mvd	N	Sand and Mud							Total Substrate																		
			C	SE	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	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	0	--	--	-	---
50981C/50221	1	0	--	--	1	0.00	--	-	---	0	--	--	1	100.00	--	-	---	0	--	--	1	100.00	--	-	---	0	--	---
50981C/50981	1	0	--	--	1	0.00	--	-	---	0	--	--	1	100.00	--	-	---	0	--	--	1	100.00	--	-	---	0	--	---
Habitat Means			--	--		0.00	--				--	--		100.00	--					--	--		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	---			
C15.1C/C15.1	2	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	0	--	--	-	---
50981C/50221	2	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	0	--	--	-	---
50981C/50981	2	0	--	--	1	0.00	--	-	---	0	--	--	1	100.00	--	-	---	0	--	--	1	100.00	--	-	---	0	--	---
Habitat Means			--	--		0.00	--				--	--		100.00	--					--	--		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	---			
C15.1C/C15.1	3	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	0	--	--	-	---
50981C/50221	3	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	0	--	--	-	---
50981C/50981	3	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	0	--	--	-	---
Habitat Means			--	--		--	--				--	--		--	--					--	--		--	--				
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 5.294. Page 3. December 15, 1994



Table C-5.295. Algal Percent Cover, Totals and Seasonal Groups, Kodiak/Alaska Peninsula, Sheltered Rocky, May 1991, Cleared September 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	Algal Diversity Index (a)								Algal Taxa Richness (b)								Total Algae										
		N	C	SE	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	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	1.00	0.00	-	---	---	0	--	--	3	16.67	12.94	-	---	---
31252C/31248	1	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.33	0.33	-	---	---	0	--	--	3	3.33	3.33	-	---	---
31252C/31252	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
99826C/33141	1	3	0.00	0.00	1	0.00	0.00	-	o	---	3	0.33	0.33	1	0.00	0.00	-	+	---	3	1.67	1.67	1	0.00	0.00	-	+	---
Habitat Means			0.00	0.00		0.00	0.00					0.33	0.33		0.44	0.17					1.70	1.70		6.67	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	---		
30196C/30196	2	0	--	--	2	0.13	0.13	-	---	---	0	--	--	2	1.00	1.00	-	---	---	0	--	--	2	28.75	28.75	-	---	---
31252C/31248	2	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.50	0.50	-	---	---	0	--	--	2	1.25	1.25	-	---	---
31252C/31252	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
99826C/33141	2	3	0.00	0.00	1	0.15	0.07	-	-	---	3	0.67	0.33	1	2.00	0.75	-	-	---	3	45.00	24.66	1	22.50	15.05	-	+	---
Habitat Means			0.00	0.00		0.10	0.07					0.67	0.33		1.17	0.75					45.00	24.70		17.53	15.05			
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	---		
30196C/30196	3	0	--	--	2	0.56	0.30	-	---	---	0	--	--	2	6.50	3.50	-	---	---	0	--	--	2	96.25	3.75	-	---	---
31252C/31248	3	0	--	--	3	0.09	0.09	-	---	---	0	--	--	3	0.67	0.67	-	---	---	0	--	--	3	2.50	2.50	-	---	---
31252C/31252	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
99826C/33141	3	1	0.00	--	0	--	--	-	---	---	1	1.00	--	0	--	--	-	---	---	1	7.50	--	0	--	--	-	---	---
Habitat Means			0.00	--		0.33	0.19					1.00	--		3.58	2.08					7.50	--		49.40	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	---		

(a) Modified Shannon Index.

(b) Taxa richness calculations are explained in the methods.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.295

Site Pair	Mvd	N	Total Invertebrates					Rock					Perennials (P)													
			C	SE	N	O	SE	CV					N	C	SE	N	O	E	CV	D	P					
30196C/30196	1	0	--	--	3	0.00	0.00	-	---	0	--	--	3	83.33	12.94	-	---	0	--	--	3	16.67	12.94	-	---	---
31252C/31248	1	0	--	--	3	20.00	10.10	-	---	0	--	--	3	76.67	12.44	-	---	0	--	--	3	3.33	3.33	-	---	---
31252C/31252	1	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	---
99826C/33141	1	3	0.83	0.83	1	5.00	--	-	---	3	97.50	1.44	1	95.00	--	-	---	3	1.67	1.67	1	0.00	--	-	---	---
Habitat Means			0.80	0.80		8.33	5.05				97.50	1.40		85.00	12.65				1.70	1.70		6.67	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	---
30196C/30196	2	0	--	--	2	3.75	3.75	-	---	0	--	--	2	67.50	32.50	-	---	0	--	--	2	28.75	28.75	-	---	---
31252C/31248	2	0	--	--	2	70.00	27.50	-	---	0	--	--	2	28.75	26.25	-	---	0	--	--	2	1.25	1.25	-	---	---
31252C/31252	2	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	---
99826C/33141	2	3	40.83	13.87	1	20.00	--	-	---	3	14.17	11.76	1	57.50	--	-	---	3	45.00	24.66	1	20.00	--	-	---	---
Habitat Means			40.80	13.90		31.27	15.65				14.20	11.80		51.27	29.40				45.00	24.70		16.70	15.05			
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	---
30196C/30196	3	0	--	--	2	3.75	3.75	-	---	0	--	--	2	0.00	0.00	-	---	0	--	--	2	50.00	27.50	-	---	---
31252C/31248	3	0	--	--	3	60.00	30.00	-	---	0	--	--	3	37.50	27.50	-	---	0	--	--	3	1.67	1.67	-	---	---
31252C/31252	3	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	---
99826C/33141	3	1	37.50	--	0	--	--	-	---	1	55.00	--	0	--	--	-	---	1	7.50	--	0	--	--	-	---	---
Habitat Means			37.50	--		31.90	16.90				55.00	--		18.75	13.75				7.50	--		25.85	14.60			
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	---

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.295, Page 2, December 15, 1994

Table C-5.295. Algal Percent Cover. Totals and Seasonal Groups. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared September 1989. (Continued.)

Site Pair	Mvd	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
30196C/30196	1	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	---	---	---	---	---	---	---	---	---
31252C/31248	1	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	---	---	---	---	---	---	---	---	---
31252C/31252	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	---	---	---	---	---	---	---	---
99826C/33141	1	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	---	---	---	---	---	---	---	---	---
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	---	---
30196C/30196	2	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	---	---	---	---	---	---	---	---	---
31252C/31248	2	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	---	---	---	---	---	---	---	---	---
31252C/31252	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	---	---	---	---	---	---	---	---
99826C/33141	2	3	0.00	0.00	1	2.50	--	-	-	---	3	0.00	0.00	1	0.00	--	-	o	---	---	---	---	---	---	---	---	---	
Habitat Means			0.00	0.00		0.83	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	---	---
30196C/30196	3	0	--	--	2	46.25	23.75	-	---	---	0	--	--	2	11.25	11.25	-	---	---	---	---	---	---	---	---	---	---	---
31252C/31248	3	0	--	--	3	0.83	0.83	-	---	---	0	--	--	3	0.00	0.00	-	---	---	---	---	---	---	---	---	---	---	---
31252C/31252	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	---	---	---	---	---	---	---	---
99826C/33141	3	1	0.00	--	0	--	--	-	---	---	1	0.00	--	0	--	--	-	---	---	---	---	---	---	---	---	---	---	---
Habitat Means			0.00	--		23.55	12.30					0.00	--		5.65	5.65												
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.

Table C-5.296. Algal Percent Cover. Chlorophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared September 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	N	Total Chlorophyta							Morphological Group: Bladed Greens										Bladed Greens (AE) (a)														
			C	SE	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	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	
31252C/31248	1	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	
31252C/31252	1	0	--	--	0	--	--	--	---	0	--	--	0	--	--	--	---	0	--	--	0	--	--	--	---	0	--	--	0	--	--	--	---	
99826C/33141	1	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	--	o	---
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				0.00	0.00					
Fisher's		Power	---	---	Power-50%	---	---	P-value	---	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	---	Power	---	---	Power-50%	---	---	P-value	---	---
30196C/30196	2	0	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	0.00	-	---	
31252C/31248	2	0	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	0.00	-	---	
31252C/31252	2	0	--	--	0	--	--	--	---	0	--	--	0	--	--	--	---	0	--	--	0	--	--	--	---	0	--	--	0	--	--	--	---	
99826C/33141	2	3	0.00	0.00	1	2.50	--	-	---	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	--	o	---	
Habitat Means			0.00	0.00		0.83	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	---	Power	---	---	Power-50%	---	---	P-value	---	---
Stouffer's		Power	---	---	Power-50%	---	---	P-value	---	Power	---	---	Power-50%	---	---	P-value	---	Power	---	---	Power-50%	---	---	P-value	---	Power	---	---	Power-50%	---	---	P-value	---	---
30196C/30196	3	0	--	--	2	12.50	12.50	-	---	0	--	--	2	11.25	11.25	-	---	0	--	--	2	11.25	11.25	-	---	0	--	--	2	11.25	11.25	-	---	
31252C/31248	3	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	
31252C/31252	3	0	--	--	0	--	--	--	---	0	--	--	0	--	--	--	---	0	--	--	0	--	--	--	---	0	--	--	0	--	--	--	---	
99826C/33141	3	1	0.00	--	0	--	--	--	---	1	0.00	--	0	--	--	--	---	1	0.00	--	0	--	--	--	---	1	0.00	--	0	--	--	--	---	
Habitat Means			0.00	--		6.25	6.25				0.00	--		5.65	5.65				0.00	--		5.65	5.65				0.00	--		5.65	5.65			
Fisher's		Power	---	---	Power-50%	---	---	P-value	---	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	---	Power	---	---	Power-50%	---	---	P-value	---	---

(a) Kormannia, Monostroma, Ulva and Ulvaria.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.296. Page 1. December 15, 1994

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	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	
31252C/31248	1	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	
31252C/31252	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
99826C/33141	1	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	
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	---	---	
30196C/30196	2	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	
31252C/31248	2	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	
31252C/31252	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
99826C/33141	2	3	0.00	0.00	1	2.50	--	-	---	---	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	2.50	--	-	---	---	
Habitat Means			0.00	0.00		0.83	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.83	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	---	---	
30196C/30196	3	0	--	--	2	1.25	1.25	-	---	---	0	--	--	2	1.25	1.25	-	---	---	0	--	--	2	0.00	0.00	-	---	---	
31252C/31248	3	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	
31252C/31252	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
99826C/33141	3	1	0.00	--	0	--	--	-	---	---	1	0.00	--	0	--	--	-	---	---	1	0.00	--	0	--	--	-	---	---	
Habitat Means			0.00	--		0.65	0.65					0.00	--		0.65	0.65					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 &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.296. Page 2. December 15, 1994

Table C-5.296. Algal Percent Cover. Chlorophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared September 1989. (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	0		--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	---	0	--	--	3	0.00	0.00	-	---	---	
31252C/31248	1	0		--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	---	0	--	--	3	0.00	0.00	-	---	---	
31252C/31252	1	0		--	--	0	--	--	--	---	---	0	--	--	0	--	--	--	--	---	---	---	0	--	--	0	--	--	--	---	---
99826C/33141	1	3		0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	---	3	0.00	0.00	1	0.00	--	-	o	---	
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	---		Power	---
Stouffer's				Power	---		Power-50%	---		P-value	---	Power	---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---		Power	---
30196C/30196	2	0		--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	---	0	--	--	2	0.00	0.00	-	---	---	
31252C/31248	2	0		--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	---	0	--	--	2	0.00	0.00	-	---	---	
31252C/31252	2	0		--	--	0	--	--	--	---	---	0	--	--	0	--	--	--	--	---	---	---	0	--	--	0	--	--	--	---	---
99826C/33141	2	3		0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	---	3	0.00	0.00	1	0.00	--	-	o	---	
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	---		Power	---
Stouffer's				Power	---		Power-50%	---		P-value	---	Power	---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---		Power	---
30196C/30196	3	0		--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	---	0	--	--	2	0.00	0.00	-	---	---	
31252C/31248	3	0		--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	---	0	--	--	3	0.00	0.00	-	---	---	
31252C/31252	3	0		--	--	0	--	--	--	---	---	0	--	--	0	--	--	--	--	---	---	---	0	--	--	0	--	--	--	---	---
99826C/33141	3	1		0.00	--	0	--	--	--	---	---	1	0.00	--	0	--	--	--	--	---	---	---	1	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	---		Power	---
Stouffer's				Power	---		Power-50%	---		P-value	---	Power	---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---		Power	---

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

Table C-5.296. Page 1. December 15, 1994

Site Pair	Mvd	Morphological Group: Tubular and Saccate Greens									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
30196C/30196	1	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---
31252C/31248	1	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---
31252C/31252	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
99826C/33141	1	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---
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	---		
30196C/30196	2	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---
31252C/31248	2	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---
31252C/31252	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
99826C/33141	2	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---
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	---		
30196C/30196	3	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---
31252C/31248	3	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---
31252C/31252	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---
99826C/33141	3	1	0.00	--	0	--	--	-	---	---	1	0.00	--	0	--	--	-	---	---	1	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	---		

(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-5.296. Page 4. December 15, 1994

Table C-5.297. Algal Percent Cover. Phaeophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared September 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										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	0	--	--	3	16.67	12.94	-	---	---	0	--	--	3	16.67	12.94	-	---	---	0	--	--	3	0.00	0.00	-	---	---	
31252C/31248	1	0	--	--	3	3.33	3.33	-	---	---	0	--	--	3	3.33	3.33	-	---	---	0	--	--	3	0.00	0.00	-	---	---	
31252C/31252	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
99826C/33141	1	3	1.67	1.67	1	0.00	--	-	+	---	3	1.67	1.67	1	0.00	--	-	+	---	3	0.00	0.00	1	0.00	--	-	o	---	
Habitat Means			1.70	1.70		6.67	8.10					1.70	1.70		6.67	8.10					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	---	---	---	
30196C/30196	2	0	--	--	2	20.00	20.00	-	---	---	0	--	--	2	20.00	20.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	
31252C/31248	2	0	--	--	2	1.25	1.25	-	---	---	0	--	--	2	1.25	1.25	-	---	---	0	--	--	2	0.00	0.00	-	---	---	
31252C/31252	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
99826C/33141	2	3	45.00	24.66	1	0.00	--	-	+	---	3	45.00	24.66	1	0.00	--	-	+	---	3	0.00	0.00	1	0.00	--	-	o	---	
Habitat Means			45.00	24.70		7.10	10.65					45.00	24.70		7.10	10.65					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	---	---	---	
30196C/30196	3	0	--	--	2	50.00	27.50	-	---	---	0	--	--	2	50.00	27.50	-	---	---	0	--	--	2	10.00	10.00	-	---	---	
31252C/31248	3	0	--	--	3	1.67	1.67	-	---	---	0	--	--	3	1.67	1.67	-	---	---	0	--	--	3	0.00	0.00	-	---	---	
31252C/31252	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
99826C/33141	3	1	0.00	--	0	--	--	-	---	---	1	0.00	--	0	--	--	-	---	---	1	0.00	--	0	--	--	-	---	---	
Habitat Means			0.00	--		25.85	14.60					0.00	--		25.85	14.60					0.00	--		5.00	5.00				
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-5.297. Page 1. December 15, 1994

Total <i>Fucus gardneri</i> (P)										Adult <i>Fucus gardneri</i> (P) (> 2cm)										Juvenile <i>Fucus gardneri</i> (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	0	--	--	3	16.67	12.94	-	---	---	0	--	--	3	14.17	14.17	-	---	---	0	--	--	3	2.50	1.44	-	---	---	
31252C/31248	1	0	--	--	3	3.33	3.33	-	---	---	0	--	--	3	3.33	3.33	-	---	---	0	--	--	3	0.00	0.00	-	---	---	
31252C/31252	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
99826C/33141	1	3	1.67	1.67	1	0.00	--	-	+	---	3	1.67	1.67	1	0.00	--	-	+	---	3	0.00	0.00	1	0.00	--	-	o	---	
Habitat Means			1.70	1.70		6.67	8.10					1.70	1.70		5.83	8.75					0.00	0.00		0.83	0.70				
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	---	---	---	
30196C/30196	2	0	--	--	2	20.00	20.00	-	---	---	0	--	--	2	20.00	20.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	
31252C/31248	2	0	--	--	2	1.25	1.25	-	---	---	0	--	--	2	1.25	1.25	-	---	---	0	--	--	2	0.00	0.00	-	---	---	
31252C/31252	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
99826C/33141	2	3	45.00	24.66	1	0.00	--	-	+	---	3	45.00	24.66	1	0.00	--	-	+	---	3	0.00	0.00	1	0.00	--	-	o	---	
Habitat Means			45.00	24.70		7.10	10.65					45.00	24.70		7.10	10.65					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	---	---	---	
30196C/30196	3	0	--	--	2	40.00	37.50	-	---	---	0	--	--	2	40.00	37.50	-	---	---	0	--	--	2	0.00	0.00	-	---	---	
31252C/31248	3	0	--	--	3	1.67	1.67	-	---	---	0	--	--	3	1.67	1.67	-	---	---	0	--	--	3	0.00	0.00	-	---	---	
31252C/31252	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
99826C/33141	3	1	0.00	--	0	--	--	-	---	---	1	0.00	--	0	--	--	-	---	---	1	0.00	--	0	--	--	-	---	---	
Habitat Means			0.00	--		20.85	19.60					0.00	--		20.85	19.60					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-5.297. Page 2. December 15, 1994

Table C-5.297. Algal Percent Cover. Phaeophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared September 1989. (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	0	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	
31252C/31248 1	0	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	
31252C/31252 1	0	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
99826C/33141 1	3	0.00	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	
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	---			
30196C/30196 2	0	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	
31252C/31248 2	0	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	
31252C/31252 2	0	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
99826C/33141 2	3	0.00	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	
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	---			
30196C/30196 3	0	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	
31252C/31248 3	0	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	
31252C/31252 3	0	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
99826C/33141 3	1	0.00	0.00	0.00	0	--	--	-	---	---	1	0.00	0.00	0	--	--	-	---	---	1	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	---			

(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.

Table C-5.297. Page 3. December 15, 1994

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	0		--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	
31252C/31248 1	0		--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	
31252C/31252 1	0		--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
99826C/33141 1	3	0.00	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	
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	---			
30196C/30196 2	0		--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	
31252C/31248 2	0		--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	
31252C/31252 2	0		--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
99826C/33141 2	3	0.00	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	
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	---			
30196C/30196 3	0		--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	
31252C/31248 3	0		--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	
31252C/31252 3	0		--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
99826C/33141 3	1	0.00	0.00	0.00	0	--	--	-	---	---	1	0.00	0.00	0	--	--	-	---	---	1	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	---			

(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-5.297. Page 4. December 15, 1994

Table C-5.297. Algal Percent Cover. Phaeophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared September 1989. (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	N	C	SE	N	O	SE	CV	D	P	
30196C/30196	1	0	--	--	3	0.00	0.00	-	---	---																			
31252C/31248	1	0	--	--	3	0.00	0.00	-	---	---																			
31252C/31252	1	0	--	--	0	--	--	-	---	---																			
99826C/33141	1	3	0.00	0.00	1	0.00	--	-	o	---																			
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			
30196C/30196	2	0	--	--	2	0.00	0.00	-	---	---																			
31252C/31248	2	0	--	--	2	0.00	0.00	-	---	---																			
31252C/31252	2	0	--	--	0	--	--	-	---	---																			
99826C/33141	2	3	0.00	0.00	1	0.00	--	-	o	---																			
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			
30196C/30196	3	0	--	--	2	0.00	0.00	-	---	---																			
31252C/31248	3	0	--	--	3	0.00	0.00	-	---	---																			
31252C/31252	3	0	--	--	0	--	--	-	---	---																			
99826C/33141	3	1	0.00	--	0	--	--	-	---	---																			
Habitat Means			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 < 0.00 in opposite direction of overall tests.  
y Direction of difference between habitat means is different than direction of overall tests.  
z Only one site pair.

Table C 5.297. Page 5. December 15, 1994

Table C-5.298. Algal Percent Cover. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared September 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										Gigartinales 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	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	
31252C/31248	1	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	
31252C/31252	1	0	--	--	0	---	---	-	---	---	0	--	--	0	---	---	-	---	---	0	--	--	0	---	---	-	---	---	
99826C/33141	1	3	0.00	0.00	1	0.00	---	-	o	---	3	0.00	0.00	1	0.00	---	-	o	---	3	0.00	0.00	1	0.00	---	-	o	---	
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	---	---	
30196C/30196	2	0	--	--	2	8.75	8.75	-	---	---	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	
31252C/31248	2	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	
31252C/31252	2	0	--	--	0	---	---	-	---	---	0	--	--	0	---	---	-	---	---	0	--	--	0	---	---	-	---	---	
99826C/33141	2	3	0.00	0.00	1	20.00	---	-	-	---	3	0.00	0.00	1	0.00	---	-	o	---	3	0.00	0.00	1	0.00	---	-	o	---	
Habitat Means			0.00	0.00		9.60	4.40					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	---	---	
30196C/30196	3	0	--	--	2	33.75	11.25	-	---	---	0	--	--	2	11.25	8.75	-	---	---	0	--	--	2	1.25	1.25	-	---	---	
31252C/31248	3	0	--	--	3	0.83	0.83	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	
31252C/31252	3	0	--	--	0	---	---	-	---	---	0	--	--	0	---	---	-	---	---	0	--	--	0	---	---	-	---	---	
99826C/33141	3	1	7.50	--	0	---	---	-	-	---	1	0.00	--	0	---	---	-	-	---	1	0.00	--	0	---	---	-	-	---	
Habitat Means			7.50	--		17.30	6.05					0.00	--		5.65	4.40					0.00	--		0.65	0.65				
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	---	---	

(a) Chondrus, Iridaea, Mastocarpus and Rhodoglossum.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.298. Page 1. December 15, 1994

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	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	
31252C/31248	1	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	
31252C/31252	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
99826C/33141	1	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	
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	---	---	
30196C/30196	2	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	
31252C/31248	2	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	
31252C/31252	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
99826C/33141	2	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	
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	---	---	
30196C/30196	3	0	--	--	2	10.00	10.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	
31252C/31248	3	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	
31252C/31252	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
99826C/33141	3	1	0.00	--	0	--	--	-	---	---	1	0.00	--	0	--	--	-	---	---	1	0.00	--	0	--	--	-	---	---	
Habitat Means			0.00	--		5.00	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	---	---	

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.298. Page 2. December 15, 1994



Table C-5.298. Algal Percent Cover. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared September 1989. (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	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---				
31252C/31248	1	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---				
31252C/31252	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---				
99826C/33141	1	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---				
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	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	---						
30196C/30196	2	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---				
31252C/31248	2	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---				
31252C/31252	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---				
99826C/33141	2	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	20.00	--	-	-	---	3	0.00	0.00	1	0.00	--	-	o	---				
Habitat Means			0.00	0.00	0.00	0.00					0.00	0.00	0.00	6.67	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	---						
30196C/30196	3	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	12.50	12.50	-	---	---	0	--	--	2	10.00	10.00	-	---	---				
31252C/31248	3	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.83	0.83	-	---	---	0	--	--	3	0.00	0.00	-	---	---				
31252C/31252	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---				
99826C/33141	3	1	0.00	--	0	--	--	-	---	---	1	7.50	--	0	--	--	-	---	---	1	0.00	--	0	--	--	-	---	---				
Habitat Means			0.00	--	0.00	0.00					7.50	--	--	6.65	6.65					0.00	--	--	5.00	5.00								
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-5.298, Page 3, December 15, 1994

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	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	---	0	--	--	3	0.00	0.00	-	---	---			
31252C/31248	1	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	---	0	--	--	3	0.00	0.00	-	---	---			
31252C/31252	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	0	--	--	0	--	--	-	---	---			
99826C/33141	1	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	---	3	0.00	0.00	1	0.00	--	-	o	---			
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	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	---					
30196C/30196	2	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	---	0	--	--	2	0.00	0.00	-	---	---			
31252C/31248	2	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	---	0	--	--	2	0.00	0.00	-	---	---			
31252C/31252	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	0	--	--	0	--	--	-	---	---			
99826C/33141	2	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	---	3	0.00	0.00	1	20.00	--	-	-	---			
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	0.00	6.67	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	---					
30196C/30196	3	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	---	0	--	--	2	2.50	2.50	-	---	---			
31252C/31248	3	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.83	0.83	-	---	---	---	0	--	--	3	0.00	0.00	-	---	---			
31252C/31252	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	0	--	--	0	--	--	-	---	---			
99826C/33141	3	1	0.00	--	0	--	--	-	---	---	1	0.00	--	0	--	--	-	---	---	---	1	7.50	--	0	--	--	-	---	---			
Habitat Means			0.00	--	0.00	0.00	0.00				0.00	--	--	0.40	0.40					---	7.50	--	1.25	1.25								
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	---					

(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-5.298, Page 4, December 15, 1994

Table C-5.298. Algal Percent Cover. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared September 1989. (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	0	--	--	3	0.00	0.00	--	--	---	---	0	--	--	3	0.00	0.00	--	--	---	---	0	--	--	3	0.00	0.00	--	--	---			
31252C/31248 1	0	--	--	3	0.00	0.00	--	--	---	---	0	--	--	3	0.00	0.00	--	--	---	---	0	--	--	3	0.00	0.00	--	--	---			
31252C/31252 1	0	--	--	0	--	--	--	--	---	---	0	--	--	0	--	--	--	--	---	---	0	--	--	0	--	--	--	--	---			
99826C/33141 1	3	0.00	0.00	1	0.00	--	--	--	o	---	3	0.00	0.00	1	0.00	--	--	o	---	---	3	0.00	0.00	1	0.00	--	--	o	---			
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	0.00	0.00	0.00	0.00	--	--	--	--			
Fisher's	Power	---	---	Power-50%	---	Power-50%	---	Power-50%	---	---	Power	---	---	Power-50%	---	Power-50%	---	Power-50%	---	---	Power	---	---	Power-50%	---	Power-50%	---	Power-50%	---	---		
Stouffer's	Power	---	---	Power-50%	---	Power-50%	---	Power-50%	---	---	Power	---	---	Power-50%	---	Power-50%	---	Power-50%	---	---	Power	---	---	Power-50%	---	Power-50%	---	Power-50%	---	---		
30196C/30196 2	0	--	--	2	0.00	0.00	--	--	---	---	0	--	--	2	0.00	0.00	--	--	---	---	0	--	--	2	0.00	0.00	--	--	---			
31252C/31248 2	0	--	--	2	0.00	0.00	--	--	---	---	0	--	--	2	0.00	0.00	--	--	---	---	0	--	--	2	0.00	0.00	--	--	---			
31252C/31252 2	0	--	--	0	--	--	--	--	---	---	0	--	--	0	--	--	--	--	---	---	0	--	--	0	--	--	--	--	---			
99826C/33141 2	3	0.00	0.00	1	0.00	--	--	--	o	---	3	0.00	0.00	1	0.00	--	--	o	---	---	3	0.00	0.00	1	0.00	--	--	o	---			
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	0.00	0.00	0.00	0.00	--	--	--	--			
Fisher's	Power	---	---	Power-50%	---	Power-50%	---	Power-50%	---	---	Power	---	---	Power-50%	---	Power-50%	---	Power-50%	---	---	Power	---	---	Power-50%	---	Power-50%	---	Power-50%	---	---		
Stouffer's	Power	---	---	Power-50%	---	Power-50%	---	Power-50%	---	---	Power	---	---	Power-50%	---	Power-50%	---	Power-50%	---	---	Power	---	---	Power-50%	---	Power-50%	---	Power-50%	---	---		
30196C/30196 3	0	--	--	2	0.00	0.00	--	--	---	---	0	--	--	2	0.00	0.00	--	--	---	---	0	--	--	2	1.25	1.25	--	--	---			
31252C/31248 3	0	--	--	3	0.00	0.00	--	--	---	---	0	--	--	3	0.00	0.00	--	--	---	---	0	--	--	3	0.00	0.00	--	--	---			
31252C/31252 3	0	--	--	0	--	--	--	--	---	---	0	--	--	0	--	--	--	--	---	---	0	--	--	0	--	--	--	--	---			
99826C/33141 3	1	0.00	--	0	--	--	--	--	---	---	1	0.00	--	0	--	--	--	---	---	---	1	0.00	--	0	--	--	--	---	---			
Habitat Means		0.00	--	0.00	0.00	0.00	--	--	--	--	0.00	--	--	0.00	0.00	0.00	--	--	--	--	0.00	--	--	0.65	0.65	--	--	--	--			
Fisher's	Power	---	---	Power-50%	---	Power-50%	---	Power-50%	---	---	Power	---	---	Power-50%	---	Power-50%	---	Power-50%	---	---	Power	---	---	Power-50%	---	Power-50%	---	Power-50%	---	---		
Stouffer's	Power	---	---	Power-50%	---	Power-50%	---	Power-50%	---	---	Power	---	---	Power-50%	---	Power-50%	---	Power-50%	---	---	Power	---	---	Power-50%	---	Power-50%	---	Power-50%	---	---		

(b) Genera not separated.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.298. Page 5. December 15, 1994

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	0		--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	---			
31252C/31248 1	0		--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	---			
31252C/31252 1	0		--		0	--	---	---	---	---	0	--		0	--	---	---	---	---	0	--		0	--	--	---	---	---	---			
99826C/33141 1	3		0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---				
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	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	---	---	---			
30196C/30196 2	0		--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	---			
31252C/31248 2	0		--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	---			
31252C/31252 2	0		--		0	--	---	---	---	---	0	--		0	--	---	---	---	---	0	--		0	--	--	---	---	---	---			
99826C/33141 2	3		0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---				
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	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	---	---	---			
30196C/30196 3	0		--	--	2	1.25	1.25	-	---	---	0	--	--	2	2.50	2.50	-	---	---	0	--	--	2	0.00	0.00	-	---	---	---			
31252C/31248 3	0		--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	---			
31252C/31252 3	0		--		0	--	---	---	---	---	0	--		0	--	---	---	---	---	0	--		0	--	--	---	---	---	---			
99826C/33141 3	1		0.00	--	0	--	--	-	---	---	1	0.00	--	0	--	--	-	---	---	1	0.00	--	0	--	--	-	---	---	---			
Habitat Means			0.00	--	0.65	0.65					0.00	--	1.25	1.25							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 &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.298. Page 6. December 15, 1994

Table C-5.298. Algal Percent Cover. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared September 1989. (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	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	---	0	--	--	3	0.00	0.00	-	---	---
31252C/31248	1	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	---	0	--	--	3	0.00	0.00	-	---	---
31252C/31252	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	0	--	--	0	--	--	-	---	---
99826C/33141	1	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	---	3	0.00	0.00	1	0.00	--	-	o	---
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	---		
30196C/30196	2	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	8.75	8.75	-	---	---	---	0	--	--	2	0.00	0.00	-	---	---
31252C/31248	2	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	---	0	--	--	2	0.00	0.00	-	---	---
31252C/31252	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	0	--	--	0	--	--	-	---	---
99826C/33141	2	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	---	3	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		2.93	4.40					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	---		
30196C/30196	3	0	--	--	2	2.50	2.50	-	---	---	0	--	--	2	6.25	6.25	-	---	---	---	0	--	--	2	2.50	2.50	-	---	---
31252C/31248	3	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	---	0	--	--	3	0.00	0.00	-	---	---
31252C/31252	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	0	--	--	0	--	--	-	---	---
99826C/33141	3	1	0.00	--	0	--	--	-	---	---	1	0.00	--	0	--	--	-	---	---	---	1	0.00	--	0	--	--	-	---	---
Habitat Means			0.00	--		1.25	1.25					0.00	--		3.15	3.15					0.00	--		1.25	1.25				
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	---		

(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-5.298. Page 7. December 14, 1994

Petrocellis (P)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"	-	SE	"

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

Table C-5.298. Page 8. December 14, 1994

Table C-5.299. Algal Percent Cover. Invertebrates. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared September 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.

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	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	
31252C/31248	1	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	16.67	8.46	-	---	---	0	--	--	3	1.67	1.67	-	---	---	
31252C/31252	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
99826C/33141	1	3	0.00	0.00	1	0.00	--	-	o	---	3	0.83	0.83	1	5.00	--	-	-	---	3	0.00	0.00	1	0.00	--	-	o	---	
Habitat Means			0.00	0.00		0.00	0.00					0.80	0.80		7.23	4.25					0.00	0.00		0.57	0.85				
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	---	
30196C/30196	2	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	3.75	3.75	-	---	---	0	--	--	2	0.00	0.00	-	---	---	
31252C/31248	2	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	70.00	27.50	-	---	---	0	--	--	2	0.00	0.00	-	---	---	
31252C/31252	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
99826C/33141	2	3	0.00	0.00	1	0.00	--	-	o	---	3	40.00	13.77	1	12.50	--	-	-	---	3	0.00	0.00	1	0.00	--	-	o	---	
Habitat Means			0.00	0.00		0.00	0.00					40.00	13.80		28.77	15.65					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	---	
30196C/30196	3	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	3.75	3.75	-	---	---	0	--	--	2	0.00	0.00	-	---	---	
31252C/31248	3	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	59.17	29.59	-	---	---	0	--	--	3	0.00	0.00	-	---	---	
31252C/31252	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
99826C/33141	3	1	0.00	--	0	--	--	-	---	---	1	35.00	--	0	--	--	-	---	---	1	0.00	--	0	--	--	-	---	---	
Habitat Means			0.00	--		0.00	0.00					35.00	--		31.50	16.70					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 5.299, Page 1, December 15, 1994

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	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	
31252C/31248	1	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	1.67	1.67	-	---	---	0	--	--	3	0.00	0.00	-	---	---	
31252C/31252	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
99826C/33141	1	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.57	0.85					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	---	
30196C/30196	2	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	
31252C/31248	2	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	
31252C/31252	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
99826C/33141	2	3	0.00	0.00	1	5.00	--	-	-	---	3	0.83	0.83	1	2.50	--	-	-	---	3	0.00	0.00	1	0.00	--	-	o	---	
Habitat Means			0.00	0.00		1.67	0.00					0.80	0.80		0.83	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	---	
30196C/30196	3	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	
31252C/31248	3	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.83	0.83	-	---	---	0	--	--	3	0.00	0.00	-	---	---	
31252C/31252	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
99826C/33141	3	1	2.50	--	0	--	--	-	---	---	1	0.00	--	0	--	--	-	---	---	1	0.00	--	0	--	--	-	---	---	
Habitat Means			2.50	--		0.00	0.00					0.00	--		0.40	0.40					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 5.299, Page 2, December 15, 1994

Table C-5.299. Algal Percent Cover. Invertebrates. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared September 1989. (Continued.)

Cnidaria														Mollusca															
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	
31252C/31248	1 0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---													
31252C/31252	1 0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---													
99826C/33141	1 3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---											
Habitat Means		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	---			
30196C/30196	2 0	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	0.00	-	---													
31252C/31248	2 0	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	0.00	-	---													
31252C/31252	2 0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---													
99826C/33141	2 3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---											
Habitat Means		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	---			
30196C/30196	3 0	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	0.00	-	---													
31252C/31248	3 0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---													
31252C/31252	3 0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---													
99826C/33141	3 1	0.00	--	0	--	--	-	---	1	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	---			

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

Table C-5.299. Page 3. December 15, 1994

Table C-5.300. Algal Percent Cover. Substrates. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared September 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	N	Rock							Mud							Sand													
			C	SE	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	0	--	--	3	83.33	12.94	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---		
31252C/31248	1	0	--	--	3	76.67	12.44	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---		
31252C/31252	1	0	--	--	0	--	--	--	---	---	0	--	--	0	--	--	--	---	---	0	--	--	0	--	--	--	---	---		
99826C/33141	1	3	97.50	1.44	1	95.00	--	-	---	---	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---		
Habitat Means			97.50	1.40		85.00	12.65					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	---		Power	---		Power-50%	---
Stouffer's		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---
30196C/30196	2	0	--	--	2	67.50	32.50	-	---	---	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---		
31252C/31248	2	0	--	--	2	28.75	26.25	-	---	---	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---		
31252C/31252	2	0	--	--	0	--	--	--	---	---	0	--	--	0	--	--	--	---	---	0	--	--	0	--	--	--	---	---		
99826C/33141	2	3	14.17	11.76	1	57.50	--	-	---	---	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---		
Habitat Means			14.20	11.80		51.27	29.40					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	---		Power	---		Power-50%	---
Stouffer's		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---
30196C/30196	3	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---		
31252C/31248	3	0	--	--	3	37.50	27.50	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---		
31252C/31252	3	0	--	--	0	--	--	--	---	---	0	--	--	0	--	--	--	---	---	0	--	--	0	--	--	--	---	---		
99826C/33141	3	1	55.00	--	0	--	--	-	---	---	1	0.00	--	0	--	--	-	---	---	1	0.00	--	0	--	--	-	---	---		
Habitat Means			55.00	--		18.75	13.75					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	---		Power	---		Power-50%	---
Stouffer's		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		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 5.300. Page 1. December 15, 1994

Site Pair	Mvd	Shell Fragments								Filamentous Diatoms								Zostera/Phyllospadix																
		N	C	SE	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	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	
31252C/31248	1	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	
31252C/31252	1	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	
99826C/33141	1	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	--	o	---
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				0.00	0.00				
Fisher's		Power	---	---	Power-50%	---	P-value	---		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	---		Power	---	---	Power-50%	---	P-value	---		
30196C/30196	2	0	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	0.00	-	---	
31252C/31248	2	0	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	0.00	-	---	
31252C/31252	2	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	
99826C/33141	2	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	--	o	---
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				0.00	0.00				
Fisher's		Power	---	---	Power-50%	---	P-value	---		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	---		Power	---	---	Power-50%	---	P-value	---		
30196C/30196	3	0	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	0.00	-	---	
31252C/31248	3	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	
31252C/31252	3	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	
99826C/33141	3	1	0.00	--	0	--	--	-	---	1	0.00	--	0	--	--	-	---	1	0.00	--	0	--	--	-	---	1	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			
Fisher's		Power	---	---	Power-50%	---	P-value	---		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	---		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 5.300. Page 2. December 15, 1994

Table C-5.300. Algal Percent Cover. Totals and Seasonal Groups. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared September 1989. (Continued.)

Site Pair	Mvd	N	Sand and Mud							Total Substrate																			
			C	SE	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	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	83.33	12.94	-	---	---										
31252C/31248	1	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	76.67	12.44	-	---	---										
31252C/31252	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---										
99826C/33141	1	3	0.00	0.00	1	0.00	--	-	o	---	3	97.50	1.44	1	95.00	--	-	.	---										
Habitat Means			0.00	0.00		0.00	0.00					97.50	1.40		85.00	12.65													
Fisher's	Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---	Power	
Stouffer's	Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---	Power	
30196C/30196	2	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	67.50	32.50	-	---	---										
31252C/31248	2	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	28.75	26.25	-	---	---										
31252C/31252	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---										
99826C/33141	2	3	0.00	0.00	1	0.00	--	-	o	---	3	14.17	11.76	1	57.50	--	-	-	---										
Habitat Means			0.00	0.00		0.00	0.00					14.20	11.80		51.27	29.40													
Fisher's	Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---	Power	
Stouffer's	Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---	Power	
30196C/30196	3	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---										
31252C/31248	3	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	37.50	27.50	-	---	---										
31252C/31252	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---										
99826C/33141	3	1	0.00	--	0	--	--	-	---	---	1	55.00	--	0	--	--	-	---	---										
Habitat Means			0.00	--		0.00	0.00					55.00	--		18.75	13.75													
Fisher's	Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---	Power	
Stouffer's	Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---	Power	

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

Table C-5.301. Algal Percent Cover, Totals and Seasonal Groups, Kodiak/Alaska Peninsula, Coarse Textured, May 1991, Cleared September 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; Power = power to detect given difference; Power-50% = power to detect a 50% difference; dashes = insufficient data.

Site	Pair	Mvd	Algal Diversity Index (a)								Algal Taxa Richness (b)								Total Algae														
			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				
94935C/31288	1	3	0.00	0.00	0	--	--	-	---	3	0.33	0.33	0	--	--	-	---	3	12.50	12.50	0	--	--	-	---	3	12.50	12.50	0	--	--	-	---
Habitat Means			0.00	0.00		--	--				0.33	0.33		--	--				12.50	12.50		--	--				12.50	12.50		--	--		
Fisher's	Power		---		Power-50%		---	P-value	---	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	---	Power	---		Power-50%		---	P-value	---
13.1C/13.1	2	0	--		0	--	--	-	---	0	--		0	--	--	-	---	0	--		0	--	--	-	---	0	--		0	--	--	-	---
94935C/31288	2	3	0.60	0.00	0	--	--	-	---	3	0.67	0.33	0	--	--	-	---	3	5.83	3.00	0	--	--	-	---	3	5.83	3.00	0	--	--	-	---
Habitat Means			0.00	0.00		--	--				0.67	0.33		--	--				5.83	3.00		--	--				5.83	3.00		--	--		
Fisher's	Power		---		Power-50%		---	P-value	---	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	---	Power	---		Power-50%		---	P-value	---
13.1C/13.1	3	0	--		0	--	--	-	---	0	--		0	--	--	-	---	0	--		0	--	--	-	---	0	--		0	--	--	-	---
94935C/31288	3	0	--		0	--	--	-	---	0	--		0	--	--	-	---	0	--		0	--	--	-	---	0	--		0	--	--	-	---
Habitat Means			--		--	--	--				--	--		--	--				--	--		--	--				--	--		--	--		
Fisher's	Power		---		Power-50%		---	P-value	---	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	---	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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Total Invertebrates																			Perennials (P)																		
Site Pair	N	C	SE	N	O	SE	CV	D	P	N	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P											
94935C/31288 1 3		0.00	0.00	0	--	--	--	--	---	3	87.50	12.50	0	--	--	--	---	3	12.50	12.50	0	--	--	--	--	---											
Habitat Means		0.00	0.00	--	--	--	--	--	---	87.50	12.50	--	--	--	--	--	---	12.50	12.50	--	--	--	--	--	--	---											
Fisher's	Power	---		Power-50%	---	P-value	---	Power	---	Power-50%	---	P-value	---	Power	---	Power-50%	---	Power	---	Power-50%	---	P-value	---	Power	---	Power-50%	---										
Stouffer's	Power	---		Power-50%	---	P-value	---	Power	---	Power-50%	---	P-value	---	Power	---	Power-50%	---	Power	---	Power-50%	---	P-value	---	Power	---	Power-50%	---										
13.1C/13.1 2 0		--	--	0	--	--	--	--	---	0	--	0	--	--	--	--	---	0	--	0	--	--	--	--	--	---											
94935C/31288 2 3		0.00	0.00	0	--	--	--	--	---	3	94.17	3.00	0	--	--	--	---	3	5.83	3.00	0	--	--	--	--	---											
Habitat Means		0.00	0.00	--	--	--	--	--	---	94.20	3.00	--	--	--	--	--	---	5.80	3.00	--	--	--	--	--	--	---											
Fisher's	Power	---		Power-50%	---	P-value	---	Power	---	Power-50%	---	P-value	---	Power	---	Power-50%	---	Power	---	Power-50%	---	P-value	---	Power	---	Power-50%	---										
Stouffer's	Power	---		Power-50%	---	P-value	---	Power	---	Power-50%	---	P-value	---	Power	---	Power-50%	---	Power	---	Power-50%	---	P-value	---	Power	---	Power-50%	---										
13.1C/13.1 3 0		--	--	0	--	--	--	--	---	0	--	0	--	--	--	--	---	0	--	0	--	--	--	--	--	---											
94935C/31288 3 0		--	--	0	--	--	--	--	---	0	--	0	--	--	--	--	---	0	--	0	--	--	--	--	--	---											
Habitat Means		--	--	--	--	--	--	--	---	--	--	--	--	--	--	--	---	--	--	--	--	--	--	--	--	---											
Fisher's	Power	---		Power-50%	---	P-value	---	Power	---	Power-50%	---	P-value	---	Power	---	Power-50%	---	Power	---	Power-50%	---	P-value	---	Power	---	Power-50%	---										
Stouffer's	Power	---		Power-50%	---	P-value	---	Power	---	Power-50%	---	P-value	---	Power	---	Power-50%	---	Power	---	Power-50%	---	P-value	---	Power	---	Power-50%	---										

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  
Only one site pair.

Table C-5.301, Page 2, March 16, 1995



Table C-5.301. Algal Percent Cover. Totals and Seasonal Groups. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Cleared September 1989. (Continued.)

Site Pair	Mvd	N	Annuals (A)							Ephemerals (AE)																		
			C	SE	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	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	---	---									
94935C/31288	1	3	0.00	0.00	0	--	--	-	---	3	0.00	0.00	0	--	--	-	---	---	---									
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	---	---	
13.1C/13.1	2	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	---	---									
94935C/31288	2	3	0.00	0.00	0	--	--	-	---	3	0.00	0.00	0	--	--	-	---	---	---									
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	---	---	
13.1C/13.1	3	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	---	---									
94935C/31288	3	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	---	---									
Habitat Means			--	--	--	--	--				--	--	--	--	--													
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-5.301. Page 3. March 16, 1995

Table C-5.302. Algal Percent Cover. Chlorophyta. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Cleared September 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; 0 = 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	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
94935C/31288	1	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	--	--	--	--				
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	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
94935C/31288	2	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	--	--	--	--				
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	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
94935C/31288	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	
Habitat Means			--	--	--	--	--	--			--	--	--	--	--	--	--			--	--	--	--	--	--				
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.

1 At least one site pair p-value < 0.100 in opposite direction of overall tests.

2 Direction of difference between habitat means is different than direction of overall tests.

3 Only one site pair.

Table C-5.302. Page 1. March 16, 1995

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	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---										
94935C/31288	1	3	0.00	0.00	0	--	--	-	---	---	3	0.00	0.00	0	--	--	-	---	---	---										
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	---	---	---	---	
13.1C/13.1	2	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---										
94935C/31288	2	3	0.00	0.00	0	--	--	-	---	---	3	0.00	0.00	0	--	--	-	---	---	---										
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	---	---	---	---	
13.1C/13.1	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---										
94935C/31288	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---										
Habitat Means			--	--	--	--	--	--			--	--	--	--	--	--	--													
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.

1 At least one site pair p-value < 0.100 in opposite direction of overall tests.

2 Direction of difference between habitat means is different than direction of overall tests.

3 Only one site pair.

Table C-5.302. Page 2. March 16, 1995

Table C-5.303. Algal Percent Cover. Phaeophyta. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Cleared September 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; 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	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	--	---			
94935C/31288	1	3	12.50	12.50	0	--	--	--	--	---	3	12.50	12.50	0	--	--	--	--	---	3	0.00	0.00	0	--	--	--	--	---	3	0.00	0.00	0	--	---		
Habitat Means			12.50	12.50	--	--	--	--	--	---		12.50	12.50	--	--	--	--	--	---		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		---	Power	---		Power-50%		---	P-value	---
Stouffer's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value	---
13.1C/13.1	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	--	--	---		
94935C/31288	2	3	5.83	3.00	0	--	--	--	--	---	3	5.83	3.00	0	--	--	--	--	---	3	0.00	0.00	0	--	--	--	--	---	3	0.00	0.00	0	--	---		
Habitat Means			5.80	3.00	--	--	--	--	--	---		5.80	3.00	--	--	--	--	--	---		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		---	Power	---		Power-50%		---	P-value	---
Stouffer's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value	---
13.1C/13.1	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	--	--	---		
94935C/31288	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	--	--	---		
Habitat Means			--	--	--	--	--	--	--	---		--	--	--	--	--	--	--	---		--	--	--	--	--	--	--	---		--	--	--	--	---		
Fisher's	Power		---		Power-50%		---	P-value		---	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		---	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-5.303. Page 1. March 16, 1995

Total <i>Fucus gardneri</i> (P)											Adult <i>Fucus gardneri</i> (P) (> 2cm)											Juvenile <i>Fucus gardneri</i> (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	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	--	---			
94935C/31288	1	3	12.50	12.50	0	--	--	--	--	---	3	12.50	12.50	0	--	--	--	--	---	3	0.00	0.00	0	--	--	--	--	---	3	0.00	0.00	0	--	---		
Habitat Means			12.50	12.50	--	--	--	--	--	---		12.50	12.50	--	--	--	--	--	---		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		---	Power	---		Power-50%		---	P-value	---
Stouffer's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value	---
13.1C/13.1	2	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	--	--	---		
94935C/31288	2	3	5.83	3.00	0	--	--	--	--	---	3	5.83	3.00	0	--	--	--	--	---	3	0.00	0.00	0	--	--	--	--	---	3	0.00	0.00	0	--	---		
Habitat Means			5.80	3.00	--	--	--	--	--	---		5.80	3.00	--	--	--	--	--	---		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		---	Power	---		Power-50%		---	P-value	---
Stouffer's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value	---
13.1C/13.1	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	--	--	---		
94935C/31288	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	--	--	---		
Habitat Means			--	--	--	--	--	--	--	---		--	--	--	--	--	--	--	---		--	--	--	--	--	--	--	---		--	--	--	--	---		
Fisher's	Power		---		Power-50%		---	P-value		---	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		---	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-5.303. Page 2. March 16, 1995

Table C-5.303. Algal Percent Cover. Phaeophyta. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Cleared September 1989. (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	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	
94935C/31288	1	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	--	--	--				
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	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	
94935C/31288	2	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	--	--	--				
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	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	
94935C/31288	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	
Habitat Means			--	--	--	--	--				--	--	--	--	--	--				--	--	--	--	--	--				
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.

Table C-5.303. Page 3. March 16, 1995

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									CV	
13.1C/13.1	1	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---									
94935C/31288	1	3	0.00	0.00	0	--	--	-	---	---	3	0.00	0.00	0	--	--	-	---	---	---									
Habitat Means			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	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---									
94935C/31288	2	3	0.00	0.00	0	--	--	-	---	---	3	0.00	0.00	0	--	--	-	---	---	---									
Habitat Means			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	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---									
94935C/31288	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---									
Habitat Means			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--									
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, Motocarpus and Pileayella.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.303. Page 4. March 16, 1995

Table C-5.304. Algal Percent Cover. Rhodophyta. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Cleared September 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; Power = power to detect given difference; Power-50% = power to detect a 50% difference; dashes = insufficient data.

Total Rhodophyta											Morphological Group: Bladed Reds											Gigartineae 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	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---	0	--	--	0	--	--	--	--	---			
94935C/31288	1	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	--	--	--	--	---				
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	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---	0	--	--	0	--	--	--	---				
94935C/31288	2	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	--	--	--	--	---				
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	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---	0	--	--	0	--	--	--	---				
94935C/31288	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---	0	--	--	0	--	--	--	---				
Habitat Means			--	--	--	--	--	--	--	---		--	--	--	--	--	--	--	---	---		--	--	--	--	--	--	---				
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-5.304. Page 1. March 16, 1995

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	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	0	--	--	0	--	--	-	---	---	
94935C/31288	1	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	--	--	--	--	--		
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	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	0	--	--	0	--	--	-	---	---	
94935C/31288	2	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	--	--	--	--	--		
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	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	0	--	--	0	--	--	-	---	---	
94935C/31288	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	---	0	--	--	0	--	--	-	---	---	
Habitat Means			--	--	--	--	--	--	--	--		--	--	--	--	--	--	--	--			--	--	--	--	--	--	--		
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-5.304. Page 2. March 16, 1995

Table C-5.304. Algal Percent Cover. Rhodophyta. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Cleared September 1989. (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		
13.1C/13.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		
94935C/31288	1	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		--	--					
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	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		
94935C/31288	2	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		--	--					
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	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		
94935C/31288	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		
Habitat Means			--	--		--	--					--	--		--	--					--	--		--	--					
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-5.304. Page 3. March 14, 1995

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	
13.1C/13.1	1	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	--	---
94935C/31288	1	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	--	--	--	--	--	---	
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	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	
94935C/31288	2	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	--	--	--	--	--	---	
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	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	
94935C/31288	3	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	
Habitat Means			--	--	--	--	--	--	--	---		--	--	--	--	--	--	--	---		--	--	--	--	--	--	--	---	
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-5.304. Page 4. March 14, 1995

Table C-5.305. Algal Percent Cover. Invertebrates. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Cleared September 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; Power = power to detect given difference; Power-50% = power to detect a 50% difference; dashes = insufficient data.

Site Pair	Mvd	N	Balanomorpha								Mytilus								Littorinidae									
			C	SE	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	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	0	--	--	0	--	--	-	---	---
94935C/31288	1	3	0.00	0.00	0	--	--	-	---	3	0.00	0.00	0	--	--	-	---	3	0.00	0.00	0	--	--	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	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	0	--	--	0	--	--	-	---	---
94935C/31288	2	3	0.00	0.00	0	--	--	-	---	3	0.00	0.00	0	--	--	-	---	3	0.00	0.00	0	--	--	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	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	0	--	--	0	--	--	-	---	---
94935C/31288	3	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	0	--	--	0	--	--	-	---	---
Habitat Means			--	--	--	--	--				--	--	--	--	--				--	--	--	--	--	--	--	--		
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-5.305. Page 1. March 16, 1995

Table C-5.306. Algal Percent Cover. Substrates. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Cleared September 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; Power = power to detect given difference; Power-50% = power to detect a 50% difference; dashes = insufficient data.

Site Pair	Mvd	N	Rock							Mud							Sand											
			C	SE	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	--	--	0	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	--	---
94935C/31288	1	3	87.50	12.50	0	--	--	--	---	3	0.00	0.00	0	--	--	--	---	3	0.00	0.00	0	--	--	--	--	--	---	
Habitat Means			87.50	12.50	--	--	--	--	---		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	--	--	0	--	--	--	---	0	--	--	0	--	--	--	---	0	--	--	0	--	--	--	--	--	---	
94935C/31288	2	3	94.17	3.00	0	--	--	--	---	3	0.00	0.00	0	--	--	--	---	3	0.00	0.00	0	--	--	--	--	--	---	
Habitat Means			94.20	3.00	--	--	--	--	---		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	--	--	0	--	--	--	---	0	--	--	0	--	--	--	---	0	--	--	0	--	--	--	--	--	---	
94935C/31288	3	0	--	--	0	--	--	--	---	0	--	--	0	--	--	--	---	0	--	--	0	--	--	--	--	--	---	
Habitat Means			--	--	--	--	--	--	---		--	--	--	--	--	--	---		--	--	--	--	--	--	--	--	---	
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-5.306. Page 1. March 16, 1995

Site Pair	Mvd	N	Shell Fragments								Filamentous Diatoms								Sand and Mud									
			C	SE	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	--	--	0	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---
94935C/31288	1	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	--	--	--	--	--	---	---
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	--	--	0	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---
94935C/31288	2	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	--	--	--	--	--	---	---
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	--	--	0	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---
94935C/31288	3	0	--	--	0	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	---
Habitat Means			--	--	--	--	--	--	---		--	--	--	--	--	--	--	---		--	--	--	--	--	--	--	---	---
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-5.306. Page 2. March 16, 1995



Table C-5.306. Algal Percent Cover. Substrates. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Cleared September 1989. (Continued.)

Site Pair		Total Substrate																				
		Mvd	N	C	SE	N	O	SE	CV	D	P											
94935C/31288 1		3		87.50	12.50	0	--	--	-	---												
Habitat Means				87.50	12.50		--	--														
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 2		0	--	--	0	--	--	-	---													
94935C/31288 2		3		94.17	3.00	0	--	--	-	---												
Habitat Means				94.20	3.00		--	--														
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	--	--	0	--	--	-	---													
94935C/31288 3		0	--	--	0	--	--	-	---													
Habitat Means				--	--		--	--														
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-5.306. Page 3. March 16, 1995

**Table C-5.307. Algal Percent Cover, Totals and Seasonal Groups, Prince William Sound, Sheltered Rocky, August 1993, 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	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.83	0.17	5	0.40	0.24	-	+	0.166	6	25.42	12.92	5	8.00	6.82	-	+	0.191
453C/453	1	6	0.01	0.01	6	0.05	0.05	-	-	0.459	6	1.17	0.17	6	0.83	0.31	-	+	0.363	6	25.00	15.59	6	21.25	13.83	-	+	0.672
601C/601	1	6	0.03	0.03	6	0.00	0.00	-	+	0.363	6	0.83	0.31	6	0.00	0.00	-	+	0.042	6	9.17	4.77	6	0.00	0.00	-	+	0.054
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	5	0.00	0.00	-	o	1.000	6	0.50	0.22	5	0.80	0.20	-	-	0.353	6	12.50	10.55	5	25.00	13.21	-	-	0.347
Habitat Means			0.01	0.01		0.01	0.01		+			0.67	0.17		0.41	0.15		+			14.42	8.78		10.86	6.76		+	
Fisher's	Power		---		Power-50%	---	P-value	0.620	y	Power	---			Power-50%	---	P-value	0.057		Power	0.138		Power-50%	0.359	P-value	0.103			
Stouffer's	Power		---		Power-50%	---	P-value	0.572		Power	0.539			Power-50%	---	P-value	0.171		Power	0.112		Power-50%	0.457	P-value	0.256			
4825C/1424	2	5	0.00	0.00	5	0.02	0.02	-	-	0.374	5	1.00	0.00	5	0.80	0.37	-	+	0.621	5	69.00	16.59	5	47.00	21.06	-	+	0.434
453C/453	2	4	0.09	0.04	6	0.17	0.06	-	-	0.364	4	2.00	0.41	6	1.67	0.42	-	+	0.604	4	86.25	5.54	6	35.42	15.21	-	+	0.036
601C/601	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	1.00	0.00	5	0.60	0.24	-	+	0.178	6	38.75	13.19	5	30.50	19.82	-	+	0.660
598C/598	2	6	0.00	0.00	6	0.06	0.06	-	-	0.363	6	0.33	0.21	6	0.83	0.48	-	+	0.361	6	7.08	6.14	6	14.58	8.33	-	-	0.478
1522C/1522	2	6	0.02	0.02	4	0.02	0.02	-	+	0.855	6	1.00	0.26	4	1.25	0.25	-	-	0.527	6	38.33	15.98	4	67.50	21.58	-	-	0.281
Habitat Means			0.02	0.01		0.05	0.03		-			1.07	0.18		1.03	0.35		-			47.90	11.48		39.00	17.20		-	
Fisher's	Power		0.082		Power-50%	0.072	P-value	0.242	y	Power	0.188			Power-50%	1.000	P-value	0.391		Power	0.166		Power-50%	0.702	P-value	0.165			
Stouffer's	Power		0.161		Power-50%	0.050	P-value	0.102		Power	0.097			Power-50%	1.000	P-value	0.574		Power	0.103		Power-50%	0.790	P-value	0.291			
4825C/1424	3	3	0.09	0.05	5	0.25	0.10	-	-	0.296	3	1.67	0.33	5	2.60	0.60	-	+	0.307	3	100.00	0.00	5	81.00	12.88	-	-	0.193
453C/453	3	4	0.14	0.09	4	0.00	0.00	-	-	0.230	4	1.75	0.48	4	0.75	0.25	-	+	0.114	4	79.38	13.40	4	1.88	0.63	-	-	0.001
601C/601	3	5	0.16	0.05	3	0.08	0.08	-	+	0.410	5	2.00	0.32	3	1.33	0.33	-	+	0.220	5	79.00	12.11	3	60.83	28.66	-	-	0.578
598C/598	3	6	0.07	0.03	6	0.01	0.01	-	+	0.149	6	1.50	0.43	6	1.00	0.26	-	+	0.341	6	57.08	17.58	6	57.08	17.68	-	o	0.976
1522C/1522	3	5	0.02	0.02	1	0.14	---	-	-	---	5	1.20	0.20	1	2.00	---	-	-	---	5	75.00	13.49	1	100.00	---	-	-	---
Habitat Means			0.10	0.05		0.10	0.05		+			1.62	0.35		1.54	0.36		+			78.10	11.32		60.16	14.98		+	
Fisher's	Power		0.386		Power-50%	0.670	P-value	0.112	y	Power	---			Power-50%	---	P-value	0.081		Power	---		Power-50%	---	P-value	0.002			
Stouffer's	Power		---		Power-50%	---	P-value	0.033		Power	---			Power-50%	---	P-value	0.039		Power	---		Power-50%	---	P-value	0.018			

(a) Modified Shannon Index.

(b) Taxa richness calculations are explained in the methods.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.307, Page 1, December 15, 1994

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	5	34.00	19.37	-	-	0.122	6	74.58	12.92	5	58.00	18.12	-	-	0.549	6	25.42	12.92	5	8.00	6.82	-	+	0.191	
453C/453	1	6	0.00	0.00	6	5.00	2.66	-	-	0.048	6	75.00	15.59	6	73.75	13.16	-	+	0.984	6	25.00	15.59	6	16.67	9.52	-	+	0.509	
601C/601	1	6	3.33	1.67	6	2.50	1.12	-	+	0.966	6	87.50	4.56	6	97.50	1.12	-	-	0.078	6	8.75	4.69	6	0.00	0.00	-	+	0.054	
598C/598	1	6	0.83	0.53	6	0.83	0.53	-	o	1.000	6	99.17	0.53	6	99.17	0.53	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	
1522C/1522	1	6	15.00	9.55	5	12.00	5.67	-	+	0.881	6	72.50	11.29	5	63.00	9.73	-	-	0.421	6	12.50	10.55	5	25.00	13.21	-	-	0.347	
Habitat Means			3.82	2.36		10.86	5.88		-			81.76	8.98		78.30	8.52		+			14.34	8.76		9.94	5.90		-		
Fisher's	Power		---		Power-50%	---	P-value	0.076		Power	0.167		Power-50%	1.000	P-value	0.572	x		Power	---		Power-50%	---	P-value	0.089				
Stouffer's	Power		0.378		Power-50%	0.311	P-value	0.110		Power	0.164		Power-50%	0.999	P-value	0.559			Power	0.125		Power-50%	0.448	P-value	0.217				
4825C/1424	2	5	4.00	2.32	5	7.50	6.69	-	-	0.949	5	27.00	16.63	5	45.50	18.34	-	-	0.509	5	69.00	16.59	5	47.00	21.06	-	-	0.434	
453C/453	2	4	2.50	2.50	6	7.08	2.77	-	-	0.153	4	11.25	3.15	6	56.67	13.64	-	-	0.034	4	86.25	5.54	6	30.00	14.13	-	-	0.020	
601C/601	2	6	5.83	5.35	5	7.50	3.16	-	-	0.531	6	55.42	12.41	5	62.00	19.13	-	-	0.825	6	38.75	13.19	5	30.50	19.82	-	-	0.660	
598C/598	2	6	12.92	6.07	6	7.92	3.19	-	+	0.356	6	69.17	11.47	6	77.50	6.58	-	-	0.596	6	7.08	6.14	6	11.67	6.04	-	-	0.548	
1522C/1522	2	6	37.92	16.04	4	7.50	7.50	-	-	0.113	6	23.75	8.13	4	18.12	15.66	-	+	0.476	6	37.92	16.04	4	67.50	21.58	-	-	0.276	
Habitat Means			12.62	6.46		7.50	4.72		-			37.34	10.36		51.96	14.66		-			47.82	11.48		37.34	16.52		+		
Fisher's	Power		0.072		Power-50%	0.653	P-value	0.459	y	Power	0.219		Power-50%	0.919	P-value	0.111			Power	0.198		Power-50%	0.731	P-value	0.116				
Stouffer's	Power		0.052		Power-50%	0.779	P-value	0.553		Power	---		Power-50%	---	P-value	0.063			Power	0.119		Power-50%	0.822	P-value	0.225				
4825C/1424	3	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	19.00	12.88	-	-	0.193	3	98.33	1.67	5	71.50	16.29	-	+	0.256	
453C/453	3	4	0.00	0.00	4	2.50	1.77	-	-	0.204	4	20.63	13.40	4	95.63	2.13	-	-	0.002	4	73.75	14.60	4	1.88	0.63	-	+	0.002	
601C/601	3	5	0.50	0.50	3	1.67	1.67	-	-	0.554	5	20.50	11.63	3	35.00	24.62	-	-	0.661	5	37.50	16.96	3	40.83	29.80	-	-	0.895	
598C/598	3	6	6.67	3.14	6	4.17	3.27	-	+	0.436	6	26.25	14.83	6	22.92	13.52	-	+	0.832	6	40.83	16.49	6	56.25	17.29	-	-	0.576	
1522C/1522	3	5	7.50	5.00	1	0.00	--	-	+	---	5	17.50	9.55	1	0.00	--	-	+	---	5	75.00	13.49	1	100.00	--	-	-	---	
Habitat Means			2.94	1.72		1.68	1.70		-			16.98	9.88		34.50	13.27		+			65.08	12.66		54.10	16.00		+		
Fisher's	Power		0.030		Power-50%	0.061	P-value	0.342	y	Power	---		Power-50%	---	P-value	0.004			Power	---		Power-50%	---	P-value	0.011				
Stouffer's	Power		0.046		Power-50%	0.063	P-value	0.417		Power	---		Power-50%	---	P-value	0.033			Power	---		Power-50%	---	P-value	0.087				

Table C-5.307. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound, Sheltered Rocky, August 1993. Cleared May 1990. (Continued.)

Site Pair	Mvd	Annals (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	
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	4.58	4.58	-	-	0.363	6	0.00	0.00	6	4.58	4.58	-	-	0.363										
601C/601	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										
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	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		0.92	0.92	-				0.08	0.08		0.92	0.92	-												
Fisher's	Power		---		Power-50%	---	P-value		0.632	Power	---		Power-50%	---	P-value		0.632	Power	---		Power-50%	---	P-value						
Stouffer's	Power		---		Power-50%	---	P-value		0.393	Power	---		Power-50%	---	P-value		0.393	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	4	0.00	0.00	6	5.42	3.56	-	-	0.110	4	0.00	0.00	6	5.00	3.16	-	-	0.104										
601C/601	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										
598C/598	2	6	0.00	0.00	6	2.92	2.92	-	-	0.363	6	0.00	0.00	6	2.92	2.92	-	-	0.363										
1522C/1522	2	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			0.08	0.08		1.66	1.30	-				0.08	0.08		1.58	1.22	-												
Fisher's	Power		0.006		Power-50%	---	P-value		0.260	Power	0.008		Power-50%	---	P-value		0.253	Power	---		Power-50%	---	P-value						
Stouffer's	Power		---		Power-50%	---	P-value		0.086	Power	---		Power-50%	---	P-value		0.084	Power	---		Power-50%	---	P-value						
4825C/1424	3	3	1.67	1.67	5	9.50	4.57	-	-	0.311	3	1.67	1.67	5	0.00	0.00	-	-	0.423										
453C/453	3	4	5.62	4.13	4	0.00	0.00	-	+	0.212	4	0.00	0.00	4	0.00	0.00	-	o	1.000										
601C/601	3	5	41.50	18.83	3	20.00	20.00	-	+	0.484	5	41.50	18.83	3	20.00	20.00	-	-	0.484										
598C/598	3	6	16.25	14.77	6	0.83	0.83	-	+	0.296	6	16.25	14.77	6	0.83	0.83	-	-	0.296										
1522C/1522	3	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---										
Habitat Means			13.07	7.88		6.06	6.35	-				11.90	7.06		4.16	5.20	-												
Fisher's	Power		0.151		Power-50%	0.212	P-value		0.176	Power	0.068		Power-50%	0.061	P-value		0.193	Power	---		Power-50%	---	P-value						
Stouffer's	Power		---		Power-50%	---	P-value		0.063	Power	0.176		Power-50%	0.165	P-value		0.134	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-5.308. Algal Percent Cover. Chlorophyta. Prince William Sound, Sheltered Rocky, August 1993, 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	0.30	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	0.30	0.00	6	4.58	4.58	-	-	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	0.12	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	
598C/598	1	6	0.30	0.00	6	0.00	0.00	-	o	1.000	6	0.00	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	0.30	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			0.38	0.08		0.92	0.92	-				0.00	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	Power	---		Power-50%		---	P-value	0.732	Power	---		Power-50%		---	P-value	0.732				
Stouffer's	Power		---		Power-50%		---	P-value	0.393	Power	---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value	0.500				
4825C/1424	2	5	0.30	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	
453C/453	2	4	0.30	0.00	6	5.00	3.16	-	-	0.104	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	
601C/601	2	6	0.30	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	
598C/598	2	6	0.30	0.00	6	2.92	2.92	-	-	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	
1522C/1522	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	0.00	0.00	4	0.00	0.00	-	o	1.000	
Habitat Means			0.38	0.08		1.58	1.22	-				0.00	0.00		0.08	0.08	-				0.00	0.00		0.08	0.08	-			
Fisher's	Power		0.007		Power-50%		---	P-value	0.253	Power	---		Power-50%		---	P-value	0.536	Power	---		Power-50%		---	P-value	0.536				
Stouffer's	Power		---		Power-50%		---	P-value	0.084	Power	---		Power-50%		---	P-value	0.240	Power	---		Power-50%		---	P-value	0.240				
4825C/1424	3	3	1.57	1.67	5	2.50	2.50	-	-	0.980	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	
453C/453	3	4	4.37	4.37	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	
601C/601	3	5	41.50	18.83	3	20.00	20.00	-	+	0.484	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	
598C/598	3	6	16.25	14.77	6	0.83	0.83	-	+	0.296	6	0.00	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	0.30	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			12.78	7.94		4.66	5.83	+				0.00	0.00		0.00	0.00	o				0.00	0.00		0.00	0.00	o			
Fisher's	Power		0.125		Power-50%		0.149	P-value	0.187	Power	---		Power-50%		---	P-value	0.698	Power	---		Power-50%		---	P-value	0.698				
Stouffer's	Power		--		Power-50%		---	P-value	0.073	Power	---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value	0.500				

(a) Kormannia, Monostroma, Ulva and Ulvaria.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.308, Page 1, December 15, 1994

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	4.58	4.58	-	-	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	0.42	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	
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	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		0.92	0.92	-				0.00	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	Power	---		Power-50%		---	P-value	0.732	Power	---		Power-50%		---	P-value	0.732				
Stouffer's	Power		---		Power-50%		---	P-value	0.393	Power	---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value	0.500				
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	5	0.00	0.00	5	0.00	0.00	-	o	1.000	
453C/453	2	4	0.00	0.00	6	5.00	3.16	-	-	0.104	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	
601C/601	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	
598C/598	2	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	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	0.00	0.00	4	0.00	0.00	-	o	1.000	
Habitat Means			0.08	0.08		1.50	1.14	-				0.00	0.00		0.00	0.00	o				0.00	0.00		0.00	0.00	o			
Fisher's	Power		0.008		Power-50%		---	P-value	0.253	Power	---		Power-50%		---	P-value	0.732	Power	---		Power-50%		---	P-value	0.732				
Stouffer's	Power		---		Power-50%		---	P-value	0.084	Power	---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value	0.500				
4825C/1424	3	3	1.67	1.67	5	2.50	2.50	-	-	0.980	3	0.00	0.00	5	2.50	2.50	-	-	0.374	3	0.00	0.00	5	0.00	0.00	-	o	1.000	
453C/453	3	4	4.37	4.37	4	0.00	0.00	-	+	0.391	4	4.37	4.37	4	0.00	0.00	-	+	0.391	4	0.00	0.00	4	0.00	0.00	-	o	1.000	
601C/601	3	5	41.50	18.83	3	20.00	20.00	-	+	0.484	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	
598C/598	3	6	16.25	14.77	6	0.83	0.83	-	+	0.296	6	0.00	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			12.78	7.94		4.66	5.83	+				0.88	0.88		0.50	0.63	-				0.00	0.00		0.00	0.00	o			
Fisher's	Power		0.132		Power-50%		0.132	P-value	0.187	Power	---		Power-50%		---	P-value	0.585 y	Power	---		Power-50%		---	P-value	0.698				
Stouffer's	Power		---		Power-50%		---	P-value	0.073	Power	---		Power-50%		---	P-value	0.633	Power	---		Power-50%		---	P-value	0.500				

(a) Genera not separated.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.308, Page 2, December 15, 1994

Table C-5.308. Algal Percent Cover. Chlorophyta. Prince William Sound. Sheltered Rocky. August 1993. 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	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	4.58	4.58	-	-	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	0.42	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	
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	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		0.92	0.92		-			0.00	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		Power	---		Power-50%	---	P-value	0.732			Power	---		Power-50%	---	P-value	0.732				
Stouffer's	Power		---		Power-50%	---	P-value	0.393		Power	---		Power-50%	---	P-value	0.500			Power	---		Power-50%	---	P-value	0.500				
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	5	0.00	0.00	5	0.00	0.00	-	o	1.000	
453C/453	2	4	0.00	0.00	6	5.00	3.16	-	o	0.104	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	
601C/601	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	
598C/598	2	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	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	0.00	0.00	4	0.00	0.00	-	o	1.000	
Habitat Means			0.08	0.08		1.50	1.14		-			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%	---	P-value	0.253		Power	---		Power-50%	---	P-value	0.732			Power	---		Power-50%	---	P-value	0.732				
Stouffer's	Power		---		Power-50%	---	P-value	0.084		Power	---		Power-50%	---	P-value	0.500			Power	---		Power-50%	---	P-value	0.500				
4825C/1424	3	3	1.67	1.67	5	0.00	0.00	-	-	0.423	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	
453C/453	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	
601C/601	3	5	41.50	18.83	3	20.00	20.00	-	-	0.484	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	
598C/598	3	6	16.25	14.77	6	0.83	0.83	-	-	0.296	6	0.00	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			11.90	7.06		4.16	5.20		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o		
Fisher's	Power		0.073		Power-50%	---	P-value	0.193		Power	---		Power-50%	---	P-value	0.698			Power	---		Power-50%	---	P-value	0.698				
Stouffer's	Power		0.183		Power-50%	---	P-value	0.134		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-5.308. Page 3. December 15, 1994

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	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	0.732		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	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000													
453C/453	2	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													
601C/601	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													
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	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	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000													
453C/453	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													
601C/601	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													
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	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-5.308. Page 4. December 15, 1994

Table C-5.309. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. August 1993. 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	25.42	12.92	5	8.00	6.82	-	+	0.191	6	25.42	12.92	5	8.00	6.82	-	+	0.191	6	25.42	12.92	5	8.00	6.82	-	+	0.191				
453C/453	1	6	24.58	15.19	6	16.67	9.52	-	+	0.539	6	24.58	15.19	6	16.67	9.52	-	+	0.539	6	24.58	15.19	6	16.67	9.52	-	+	0.539				
601C/601	1	6	8.75	4.69	6	0.00	0.00	-	+	0.054	6	8.75	4.69	6	0.00	0.00	-	+	0.054	6	8.75	4.69	6	0.00	0.00	-	+	0.054				
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	12.50	10.55	5	23.50	13.77	-	-	0.499	6	12.50	10.55	5	23.50	13.77	-	-	0.499	6	12.50	10.55	5	23.50	13.77	-	-	0.499				
Habitat Means			14.26	8.68		9.64	6.02		+			14.26	8.68		9.64	6.02		+			14.26	8.68		9.64	6.02		+					
Fisher's	Power		---		Power-50%		---	P-value		0.086	Power	---		Power-50%		---	P-value		0.086	Power	---		Power-50%		---	P-value		0.086				
Stouffer's	Power		0.146		Power-50%		0.484	P-value		0.208	Power		0.147		Power-50%		0.485	P-value		0.208	Power		0.144		Power-50%		0.462	P-value		0.208		
4825C/1424	2	5	69.00	16.59	5	46.50	21.06	-	+	0.427	5	69.00	16.59	5	46.50	21.06	-	+	0.427	5	69.00	16.59	5	46.50	21.06	-	+	0.427				
453C/453	2	4	81.25	6.33	6	20.42	14.43	-	-	0.014	4	81.25	6.33	6	20.00	14.53	-	+	0.014	4	81.25	6.33	6	20.00	14.53	-	+	0.014				
601C/601	2	6	38.75	13.19	5	30.50	19.82	-	-	0.660	6	38.75	13.19	5	30.50	19.82	-	+	0.660	6	38.75	13.19	5	30.50	19.82	-	+	0.660				
598C/598	2	6	7.08	6.14	6	11.67	6.04	-	-	0.548	6	7.08	6.14	6	11.67	6.04	-	-	0.548	6	7.08	6.14	6	11.67	6.04	-	-	0.548				
1522C/1522	2	6	37.92	16.04	4	66.87	21.54	-	-	0.284	6	37.92	16.04	4	66.87	21.54	-	-	0.284	6	37.92	16.04	4	66.87	21.54	-	-	0.284				
Habitat Means			46.82	11.64		35.20	16.56		-			46.82	11.64		35.12	16.58		-			46.82	11.64		35.12	16.58		-					
Fisher's	Power		---		Power-50%		---	P-value		0.095	Power	---		Power-50%		---	P-value		0.096	Power	---		Power-50%		---	P-value		0.096				
Stouffer's	Power		0.168		Power-50%		0.811	P-value		0.205	Power		0.160		Power-50%		0.845	P-value		0.205	Power		0.160		Power-50%		0.831	P-value		0.205		
4825C/1424	3	3	70.00	27.54	5	65.00	17.41	-	-	0.732	3	70.00	27.54	5	65.00	17.41	-	-	0.732	3	70.00	27.54	5	65.00	17.41	-	-	0.732				
453C/453	3	4	61.88	22.81	4	1.88	0.63	-	-	0.096	4	61.88	22.81	4	1.88	0.63	-	-	0.096	4	61.88	22.81	4	1.88	0.63	-	-	0.096				
601C/601	3	5	33.00	13.63	3	40.83	29.80	-	-	0.672	5	33.00	13.63	3	40.83	29.80	-	-	0.672	5	33.00	13.63	3	40.83	29.80	-	-	0.672				
598C/598	3	6	38.75	16.92	6	56.25	17.29	-	-	0.471	6	38.75	16.92	6	56.25	17.29	-	-	0.471	6	38.75	16.92	6	56.25	17.29	-	-	0.471				
1522C/1522	3	5	74.50	13.84	1	90.00	---	-	-	---	5	74.50	13.84	1	90.00	---	-	-	---	5	74.50	13.84	1	90.00	---	-	-	---				
Habitat Means			55.88	18.70		50.80	16.27		-			55.64	18.92		50.80	16.27		-			55.64	18.92		50.80	16.27		-					
Fisher's	Power		0.232		Power-50%		0.481	P-value		0.227	Power		0.138		Power-50%		0.557	P-value		0.306	Power		0.128		Power-50%		0.538	P-value		0.306		
Stouffer's	Power		0.140		Power-50%		0.558	P-value		0.338	Power		0.092		Power-50%		0.639	P-value		0.390	Power		0.092		Power-50%		0.617	P-value		0.390		

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

Table C-5.309. Page 1. December 15, 1994

Adult <i>Fucus gardneri</i> (P) (> 2cm)											Juvenile <i>Fucus gardneri</i> (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	25.42	12.92	5	0.50	0.50	-	+	0.043	6	0.00	0.00	5	7.50	6.32	-	-	0.233	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000	
453C/453	1	6	24.58	15.19	6	15.83	8.77	-	+	0.511	6	0.00	0.00	6	0.83	0.83	-	-	0.363	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000	
601C/601	1	6	8.75	4.69	6	0.00	0.00	-	+	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	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	0.00	-	o	1.000	
1522C/1522	1	6	12.50	10.55	5	23.50	13.77	-	-	0.499	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000	
Habitat Means			14.26	8.68		7.96	4.62					0.00	0.00		1.66	1.42		-			0.00	0.00		0.00	0.00	0.00		o		
Fisher's	Power		---		Power-50%		---	P-value		0.034	Power		0.000		Power-50%		---	P-value		0.294	Power	---		Power-50%		---	P-value		0.732	
Stouffer's	Power		0.243		Power-50%		0.471	P-value		0.175	Power		0.001		Power-50%		---	P-value		0.259	Power		---		Power-50%		---	P-value		0.500
4825C/1424	2	5	67.50	17.01	5	46.50	21.06	-	+	0.469	5	1.50	1.00	5	0.00	0.00	-	-	0.186	5	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000	
453C/453	2	4	81.25	6.33	6	19.58	14.64	-	+	0.014	4	0.00	0.00	6	0.42	0.42	-	-	0.363	4	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000	
601C/601	2	6	37.92	13.52	5	30.00	19.70	-	+	0.679	6	0.83	0.83	5	0.50	0.50	-	-	0.911	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000	
598C/598	2	6	7.08	6.14	6	11.67	6.04	-	-	0.548	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000	
1522C/1522	2	6	37.50	16.23	4	66.87	21.54	-	-	0.271	6	0.42	0.42	4	0.00	0.00	-	-	0.363	6	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000	
Habitat Means			46.26	11.82		34.94	16.58		-			0.54	0.44		0.18	0.18		-			0.00	0.00		0.00	0.00	0.00		o		
Fisher's	Power		0.270		Power-50%		0.826	P-value		0.103	Power		0.018		Power-50%		0.030	P-value		0.319	Power	---		Power-50%		---	P-value		0.732	
Stouffer's	Power		0.169		Power-50%		0.888	P-value		0.212	Power		0.030		Power-50%		0.091	P-value		0.533	Power		---		Power-50%		---	P-value		0.500
4825C/1424	3	3	70.00	27.54	5	64.00	17.11	-	+	0.707	3	0.00	0.00	5	1.00	1.00	-	-	0.374	3	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000	
453C/453	3	4	61.88	22.81	4	1.25	0.72	-	-	0.085	4	0.00	0.00	4	0.63	0.63	-	-	0.391	4	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000	
601C/601	3	5	32.50	13.65	3	40.83	29.80	-	-	0.662	5	0.50	0.50	3	0.00	0.00	-	+	0.374	5	0.00	0.00	3	0.00	0.00	0.00	-	o	1.000	
598C/598	3	6	38.75	16.92	6	56.25	17.29	-	-	0.471	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000	
1522C/1522	3	5	74.50	13.84	-	90.00	--	-	-	---	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	-	0.00	--	-	o	---	---	
Habitat Means			55.54	18.94		50.48	16.23					0.10	0.10		0.32	0.40		-			0.00	0.00		0.00	0.00	0.00		o		
Fisher's	Power		0.134		Power-50%		0.565	P-value		0.285	Power	---		Power-50%		---	P-value		0.394	Power	---		Power-50%		---	P-value		0.698		
Stouffer's	Power		0.091		Power-50%		0.644	P-value		0.378	Power	---		Power-50%		---	P-value		0.352	Power	---		Power-50%		---	P-value		0.500		

Table C-5.309. Algal Percent ov r. Phaeophyta. Prince William Sound. Sheltered Rocky. August 1993. Cleared May 1990.

Petalonia/Punctaria (AB) (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	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	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	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	Power	---		Power-50%		---	P-value	0.500
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	5	0.00	0.00	5	0.00	0.00	-	o	1.000					
453C/453	2	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					
601C/601	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					
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	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	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	Power	---		Power-50%		---	P-value	0.500
4825C/1424	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					
453C/453	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					
601C/601	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					
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	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	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	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.

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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	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	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	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	0.00	-	o	1.000				
1522C/1522	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	0.00	-	o	1.000				
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			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	0.732	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	Power	---		Power-50%		---	P-value	0.500
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	5	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000				
453C/453	2	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	0.00	-	o	1.000				
601C/601	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	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	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	0.00	-	o	1.000				
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			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	0.732	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	Power	---		Power-50%		---	P-value	0.500
4825C/1424	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	0.00	-	o	1.000				
453C/453	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	0.00	-	o	1.000				
601C/601	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	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	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	-	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	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	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	Power	---		Power-50%		---	P-value	0.500

Table C-5.309. Algal Percent Cover. Phaeophyta. Prince William Sound, Sheltered Rocky, August 1993. Cleared May 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	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		o				0.00	0.00		0.00		o				0.00	0.00		0.00		o						
Fisher's										0.732									0.732										0.732			
Stouffer's										0.500									0.500										0.500			
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	5	0.00	0.00	5	0.00	0.00	-	o	1.000				
453C/453	2	4	0.00	0.00	6	0.42	0.42	-	-	0.363	4	0.00	0.00	6	0.42	0.42	-	-	0.363	4	0.00	0.00	6	0.00	0.00	-	o	1.000				
601C/601	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				
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		0.08	0.08	-				0.00	0.00		0.00		o						
Fisher's										0.536									0.536										0.732			
Stouffer's										0.315									0.315										0.500			
4825C/1424	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				
453C/453	3	4	1.25	1.25	4	0.00	0.00	-	+	0.391	4	1.25	1.25	4	0.00	0.00	-	+	0.391	4	0.00	0.00	4	0.00	0.00	-	o	1.000				
601C/601	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				
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	0.00	-	o	1.000	5	0.00	0.00	1	0.00	0.00	-	o	1.000	5	0.00	0.00	1	0.00	0.00	-	o	1.000				
Habitat Means			0.26	0.26		0.00	0.00	-	+			0.26	0.26		0.00	0.00	-	+			0.00	0.00		0.00		o						
Fisher's										0.492									0.492										0.698			
Stouffer's										0.321									0.321										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.

De

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	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										0.732									0.732													
Stouffer's										0.500									0.500													
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	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													
601C/601	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													
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										0.732									0.732													
Stouffer's										0.500									0.500													
4825C/1424	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													
453C/453	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													
601C/601	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													
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										0.698									0.698													
Stouffer's										0.500									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-5.310. Algal Percent Cover. Rhodophyta. Prince William Sound, Sheltered Rocky, August 1993, 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. (AZ)									
site Pair	Mvd	N	C	SE	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	0.42	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	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	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	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	
Habitat Means			0.08	0.08		0.30	0.30		+			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	0.630		Power	---		Power-50%	---		P-value	0.732		Power	---		Power-50%	---		P-value	0.732		
Stouffer's		Power	---		Power-50%	---		P-value	0.383		Power	---		Power-50%	---		P-value	0.500		Power	---		Power-50%	---		P-value	0.500		
4825C/1424	2	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	0.00	0.00	-	o	1.000	
453C/453	2	4	5.00	2.28	6	10.00	8.16	-	-	0.978	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	
601C/601	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	
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	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	
Habitat Means			1.00	0.46		2.22	1.86		-			0.38	0.38		0.00	0.00		+			0.00	0.00		0.00	0.00		o		
Fisher's		Power	0.002		Power-50%	0.028		P-value	0.372		Power	---		Power-50%	---		P-value	0.550		Power	---		Power-50%	---		P-value	0.732		
Stouffer's		Power	0.013		Power-50%	0.004		P-value	0.376		Power	---		Power-50%	---		P-value	0.325		Power	---		Power-50%	---		P-value	0.500		
4825C/1424	3	3	28.33	28.33	5	13.50	5.84	-	-	0.845	3	0.00	0.00	5	1.50	1.50	-	-	0.374	3	0.00	0.00	5	0.00	0.00	-	o	1.000	
453C/453	3	4	11.87	8.25	4	0.00	0.00	-	+	0.205	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	
601C/601	3	5	4.50	3.91	3	0.00	0.00	-	+	0.240	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	
598C/598	3	6	2.08	1.64	6	0.00	0.00	-	+	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	
1522C/1522	3	5	0.50	0.50	1	10.00	---	-	-	---	5	0.00	0.00	1	0.00	---	-	o	---	5	0.00	0.00	1	0.00	---	-	o	---	
Habitat Means			9.46	8.52		4.70	1.45		+			0.00	0.00		0.30	0.38		-			0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%	---		P-value	0.057		Power	---		Power-50%	---		P-value	0.483		Power	---		Power-50%	---		P-value	0.698		
Stouffer's		Power	---		Power-50%	---		P-value	0.023		Power	---		Power-50%	---		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-5.310. Page 1, December 15, 1994

Gigartiniaceae 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	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										0.732									0.732									0.732	
Stouffer's										0.500									0.500									0.500	
			Power	---		Power-50%	---			P-value		Power	---		Power-50%	---			P-value		Power	---		Power-50%	---			P-value	
			Power	---		Power-50%	---			P-value		Power	---		Power-50%	---			P-value		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	5	0.00	0.00	5	0.00	0.00	-	o	1.000	
453C/453	2	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	4	0.00	0.00	6	0.00	0.00	-	o	1.000	
601C/601	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	
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			0.38	0.38		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o		
Fisher's										0.550									0.732									0.732	
Stouffer's										0.325									0.500									0.500	
			Power	---		Power-50%	---			P-value		Power	---		Power-50%	---			P-value		Power	---		Power-50%	---			P-value	
			Power	---		Power-50%	---			P-value		Power	---		Power-50%	---			P-value		Power	---		Power-50%	---			P-value	
4825C/1424	3	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	1.50	1.50	-	-	0.374	3	0.00	0.00	5	0.00	0.00	-	o	1.000	
453C/453	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	
601C/601	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	
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		0.30	0.38		-			0.00	0.00		0.00	0.00		o		
Fisher's										0.698									0.483									0.698	
Stouffer's										0.500									0.450									0.500	

Table C-5.310. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. 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	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	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%	---		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%	---		Power-50%	---		P-value	0.500
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	5	0.00	0.00	5	0.00	0.00	-	o	1.000	
453C/453	2	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	
601C/601	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	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%	---		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%	---		Power-50%	---		P-value	0.500
4825C/1424	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	
453C/453	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	
601C/601	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	
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%	---		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%	---		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-5.310, Page 3, December 15, 1994

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	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				
Habitat Means			0.00	0.00		0.30	0.30		-			0.00	0.00		0.00	0.00		o			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%	---		Power-50%	---		P-value	0.732			
Stouffer's			Power	---		Power-50%	---		P-value	0.427	Power	---		Power-50%	---		P-value	0.500	Power	---		Power-50%	---		Power-50%	---		P-value	0.500			
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	5	0.00	0.00	5	0.00	0.00	-	o	1.000				
453C/453	2	4	3.13	1.57	6	10.00	8.16	-	-	0.838	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				
601C/601	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				
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	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000				
Habitat Means			0.62	0.32		2.12	1.76		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		0.00	o				
Fisher's			Power	0.000		Power-50%	0.029		P-value	0.517	Power	---		Power-50%	---		P-value	0.732	Power	---		Power-50%	---		Power-50%	---		P-value	0.732			
Stouffer's			Power	0.000		Power-50%	0.005		P-value	0.387	Power	---		Power-50%	---		P-value	0.500	Power	---												
4825C/1424	3	3	28.33	28.33	5	6.50	2.81	-	-	0.556	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				
453C/453	3	4	11.87	8.25	4	0.00	0.00	-	-	0.205	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				
601C/601	3	5	4.50	3.91	3	0.00	0.00	-	-	0.240	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				
598C/598	3	6	2.08	1.64	6	0.00	0.00	-	-	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				
1522C/1522	3	5	0.50	0.50	1	10.00	--	-	-	---	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---				
Habitat Means			9.46	8.52		3.30	0.70		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		0.00	o				
Fisher's			Power	---		Power-50%	---		P-value	0.043	Power	---		Power-50%	---		P-value	0.698	Power	---		Power-50%	---		Power-50%	---		P-value	0.698			
Stouffer's			Power	---		Power-50%	---		P-value	0.020	Power	---		Power-50%	---		P-value	0.500	Power	---									0.500			

Table C-5.310. Algal Percent Cover. Rhodophyta. Prince William Sound, Sheltered Rocky, August 1993. 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	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	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	1.50	1.50	-	o	0.374				
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.30	0.30			-				
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	0.427				
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	5	0.00	0.00	5	0.00	0.00	-	o	1.000				
453C/453	2	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	3.13	1.57	6	10.00	8.16	-	o	0.838				
601C/601	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				
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	0.63	0.63	-	o	0.391				
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.62	0.32		2.12	1.76			-				
Fisher's	Power		---		Power-50%		---		P-value	0.732	Power	---		Power-50%		---		P-value	0.732	Power	0.000		Power-50%		0.022		P-value	0.517				
Stouffer's	Power		---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500	Power	0.000		Power-50%		0.003		P-value	0.387				
4825C/1424	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	28.33	28.33	5	6.50	2.81	-	o	0.556				
453C/453	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	11.87	8.25	4	0.00	0.00	-	o	0.205				
601C/601	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	4.50	3.91	3	0.00	0.00	-	o	0.240				
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	2.08	1.64	6	0.00	0.00	-	o	0.204				
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	10.00		-	o	---				
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			9.46	8.52		3.30	0.70			+				
Fisher's	Power		---		Power-50%		---		P-value	0.698	Power	---		Power-50%		---		P-value	0.698	Power	---		Power-50%		---		P-value	0.043				
Stouffer's	Power		---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.020				

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

Table C-5.310. Page 5. December 15, 1994

Odonthalia floccosa (P)											Ptilota/Neoptilota (P) (b)											Morphological Group: Saccate Reds										
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				
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	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			o			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	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				
453C/453	2	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				
601C/601	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				
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			o			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	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	2.50	1.58	-	o	0.181				
453C/453	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				
601C/601	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				
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			o			0.00	0.00		0.00			o			0.00	0.00		0.50	0.40			-				
Fisher's	Power		---		Power-50%		---		P-value	0.698	Power	---		Power-50%		---		P-value	0.698	Power	0.010		Power-50%		---		P-value	0.345				
Stouffer's	Power		---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500	Power	0.006		Power-50%		---		P-value	0.425				

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

Table C-5.310. Page 6. December 15, 1994

Table C-5.310. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. 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	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	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		Power	---		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		Power	---		P-value	0.500
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	5	0.00	0.00	5	0.00	0.00	-	o	1.000		
453C/453	2	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		
601C/601	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		
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		Power	---		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		Power	---		P-value	0.500
4825C/1424	3	3	0.00	0.00	5	2.50	1.58	-	-	0.181	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	3.00	1.84	-	-	0.178		
453C/453	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		
601C/601	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		
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		0.50	0.40	-				0.00	0.00		0.00	0.00		o			0.00	0.00		0.60	0.45	-				
Fisher's	Power		0.011		Power-50%	---	P-value	0.345		Power	---		Power-50%	---	P-value	0.698		Power	0.000		Power-50%	---	P-value	0.342		Power	0.000		P-value	0.342
Stouffer's	Power		0.006		Power-50%	---	P-value	0.425		Power	---		Power-50%	---	P-value	0.500		Power	0.000		Power-50%	---	P-value	0.424		Power	0.000		P-value	0.424

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

Table C 5.310. Page 7. December 15, 1994

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	0.42	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	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	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	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	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	0.00	o				0.08	0.08	0.00	0.00	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		Power	---		Power-50%	---	P-value	0.500
Stouffer's	Power		---		Power-50%	---	P-value	0.500		Power	---		Power-50%	---	P-value	0.315		Power	---		Power-50%	---	P-value	0.500		Power	---		Power-50%	---	P-value	0.500
4825C/1424	2	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	5	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000			
453C/453	2	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000		
601C/601	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	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	0.00	-	o	1.000	6	0.00	0.00	6	0.00	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	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000		
Habitat Means			0.00	0.00	0.00	0.00	0.00	o				0.00	0.00	0.00	0.10	0.10	-				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		Power	---		Power-50%	---	P-value	0.500
Stouffer's	Power		---		Power-50%	---	P-value	0.500		Power	---		Power-50%	---	P-value	0.451		Power	---		Power-50%	---	P-value	0.500		Power	---		Power-50%	---	P-value	0.500
4825C/1424	3	3	0.00	0.00	5	3.00	1.84	-	-	0.178	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000			
453C/453	3	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000		
601C/601	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	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	0.00	-	o	1.000	6	0.00	0.00	6	0.00	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	0.60	0.45	-					0.00	0.00	0.00	0.00	0.00	o				0.00	0.00	0.00	0.00	0.00	o						
Fisher's	Power		0.000		Power-50%	---	P-value	0.342		Power	---		Power-50%	---	P-value	0.698		Power	---		Power-50%	---	P-value	0.698		Power	---		Power-50%	---	P-value	0.698
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		Power	---		Power-50%	---	P-value	0.500

(a) Genera not separated.

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

Table C 5.310. Page 8. December 15, 1994

Table C-5.310. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. Cleared May 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	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	0.42	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										
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	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											
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	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										
453C/453	2	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										
601C/601	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										
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		0.10	0.10		-			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	0.451	Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value		
4825C/1424	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										
453C/453	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										
601C/601	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										
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		

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

Table C-5.311. Algal Percent Cover. Invertebrates. Prince William Sound. Sheltered Rocky. August 1993. 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; 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	5	33.00	18.76	-	-	0.121	6	0.00	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	3.33	2.01	-	-	0.100	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	1.25	0.85	-	-	0.183	
601C/601	1	6	2.92	1.64	6	0.83	0.53	-	+	0.349	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.42	0.42	6	1.25	1.25	-	-	0.718	
598C/598	1	6	0.42	0.42	6	0.83	0.53	-	-	0.549	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	
1522C/1522	1	6	14.58	9.67	5	9.00	3.76	-	-	0.921	6	0.42	0.42	5	0.00	0.00	-	+	0.363	6	0.42	0.00	5	3.00	2.00	-	-	0.187	
Habitat Means			3.58	2.34		9.38	5.12		-			0.16	0.16		0.00	0.00		+			0.08	0.08		1.12	0.84		-		
Fisher's	Power		0.300		Power-50%		0.134	P-value		0.105	Power	---		Power-50%		---	P-value		0.359	Power		0.107		Power-50%		---	P-value		0.158
Stouffer's	Power		---		Power-50%		---	P-value		0.094	Power	---		Power-50%		---	P-value		0.186	Power		0.230		Power-50%		---	P-value		0.143
4825C/1424	2	5	3.00	1.46	5	7.00	6.39	-	-	0.878	5	0.50	0.50	5	0.00	0.00	-	-	0.374	5	0.50	0.50	5	0.00	0.00	-	-	0.374	
453C/453	2	4	2.50	2.50	6	4.17	2.79	-	-	0.625	4	0.00	0.00	6	0.42	0.42	-	-	0.363	4	0.00	0.00	6	2.08	1.00	-	-	0.081	
601C/601	2	6	5.83	5.35	5	3.00	1.84	-	-	0.998	6	0.00	0.00	5	0.00	0.00	-	-	1.000	6	0.00	0.00	5	4.50	2.00	-	-	0.075	
598C/598	2	6	9.17	6.67	6	3.33	2.01	-	-	0.280	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	3.75	1.55	6	4.17	2.30	-	-	0.867	
1522C/1522	2	6	32.92	14.80	4	6.88	6.88	-	+	0.170	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	5.00	2.74	4	0.63	0.63	-	+	0.184	
Habitat Means			10.68	6.18		4.88	3.98		+			0.10	0.10		0.16	0.16		-			1.86	0.96		2.28	1.18		-		
Fisher's	Power		0.127		Power-50%		0.467	P-value		0.274	Power	---		Power-50%		---	P-value		0.440	Power		0.123		Power-50%		0.121	P-value		0.123
Stouffer's	Power		0.125		Power-50%		0.619	P-value		0.199	Power	---		Power-50%		---	P-value		0.144	Power		0.033		Power-50%		0.197	P-value		0.143
4825C/1424	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	
453C/453	3	4	0.00	0.00	4	1.88	1.88	-	-	0.391	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	
601C/601	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	1.67	1.67	-	-	0.423	
598C/598	3	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	6.25	3.28	6	2.08	1.36	-	-	0.367	
1522C/1522	3	5	5.50	4.90	1	0.00	--	-	-	---	5	0.00	0.00	1	0.00	--	-	o	---	5	2.00	2.00	1	0.00	--	-	-	---	
Habitat Means			1.28	1.16		0.80	1.00		-			0.00	0.00		0.12	0.15		-			1.66	1.06		0.76	0.78		-		
Fisher's	Power		0.000		Power-50%		0.000	P-value		0.493 y	Power	---		Power-50%		---	P-value		0.492	Power		0.020		Power-50%		0.016	P-value		0.576
Stouffer's	Power		0.000		Power-50%		0.000	P-value		0.258 y	Power	---		Power-50%		---	P-value		0.321	Power		0.002		Power-50%		0.007	P-value		0.299

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x At least one site pair p-value < 0.100 in 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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Table C 6.311. Page 1. December 15, 1994

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	1.00	0.61	-	-	0.178	6	0.00	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	0.42	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	0.42	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	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	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		0.20	0.12		-			0.00	0.00		0.16	0.16		-			0.00	0.00		0.00	0.00		o	
Fisher's	Power			0.000		Power-50%		---	P-value		0.407	Power	---		Power-50%		---	P-value		0.359	Power	---		Power-50%		---	P-value		0.732
Stouffer's	Power			0.000		Power-50%		---	P-value		0.426	Power	---		Power-50%		---	P-value		0.244	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	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	0.00	0.00	-	o	1.000
453C/453	2	4		0.00	0.00	6	0.42	0.42	-	-	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
601C/601	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
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		0.18	0.18		-			0.00	0.00		0.00	0.00		o			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		0.732
Stouffer's	Power			---		Power-50%		---	P-value		0.272	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	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
453C/453	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
601C/601	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
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-5.312. Page 2. December 15, 1994

Table C-5.312. Algal Percent Cover. Substrates. Prince William Sound, Sheltered Rocky, August 1993, 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.

Site Pair	Mvd	Rock									Oiled Rock									Sand									
		N	C	SE	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	74.58	12.92	5	58.00	18.12	-	+	0.549	6	0.00	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	75.00	15.59	6	73.75	13.16	-	+	0.984	6	0.00	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	87.50	4.56	6	97.08	1.19	-	-	0.098	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	99.17	0.53	6	99.17	0.53	-	o	1.000	6	0.00	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	72.50	11.29	5	63.00	9.73	-	+	0.421	6	0.00	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			81.76	8.98		78.22	8.54		+			0.00	0.00		0.08	0.08		-			0.00	0.00		0.00	0.00		o		
Fisher's	Power		0.176		Power-50%	1.000	P-value	0.570x			Power	---		Power-50%	---	P-value	0.536			Power	---		Power-50%	---	P-value	0.732			
Stouffer's	Power		0.173		Power-50%	1.000	P-value	0.549			Power	---		Power-50%	---	P-value	0.417			Power	---		Power-50%	---	P-value	0.500			
4825C/1424	2	5	27.00	16.63	5	45.50	18.34	-	-	0.509	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	4	11.25	3.15	6	56.67	13.64	-	-	0.034	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	
601C/601	2	6	35.42	12.41	5	62.00	19.13	-	-	0.825	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	
598C/598	2	6	69.17	11.47	6	77.50	6.58	-	-	0.596	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	10.83	10.83	6	0.00	0.00	-	+	0.363	
1522C/1522	2	6	23.75	8.13	4	18.12	15.66	-	+	0.476	6	0.00	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			37.34	10.36		51.96	14.66		-			0.00	0.00		0.00	0.00		o			2.16	2.16		0.00	0.00		-		
Fisher's	Power		0.223		Power-50%	0.910	P-value	0.111			Power	---		Power-50%	---	P-value	0.732			Power	---		Power-50%	---	P-value	0.536			
Stouffer's	Power		---		Power-50%	---	P-value	0.063			Power	---		Power-50%	---	P-value	0.500			Power	---		Power-50%	---	P-value	0.240			
4825C/1424	3	3	0.00	0.00	5	19.00	12.88	-	-	0.193	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	
453C/453	3	4	20.63	13.40	4	95.63	2.13	-	-	0.002	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	
601C/601	3	5	20.50	11.63	3	35.00	24.62	-	-	0.661	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	2.50	2.50	-	-	0.423	
598C/598	3	6	26.25	14.83	6	22.92	13.52	-	+	0.832	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	10.00	10.00	6	15.83	15.83	-	-	0.781	
1522C/1522	3	5	17.50	9.55	1	0.00	---	-	+	---	5	0.00	0.00	1	0.00	---	-	o	---	5	0.00	0.00	1	0.00	---	-	o	---	
Habitat Means			16.98	9.88		34.50	13.27		-			0.00	0.00		0.00	0.00		o			2.00	2.00		3.66	4.57		-		
Fisher's	Power		---		Power-50%	---	P-value	0.004			Power	---		Power-50%	---	P-value	0.698			Power	---		Power-50%	---	P-value	0.457			
Stouffer's	Power		---		Power-50%	---	P-value	0.033			Power	---		Power-50%	---	P-value	0.500			Power	---		Power-50%	---	P-value	0.341			

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

Table C-5.312. Page 1. December 15, 1994

Site Pair	Mvd	N	Shell Fragments								Water								Zostera/Phyllospadix										
			C	SE	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	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			o			0.00	0.00		0.00			o			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	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	
453C/453	2	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	
601C/601	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	
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	6.88	6.88	-	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.16	0.16		-			0.00	0.00		1.38	1.38		-			0.00	0.00		0.00	0.00		o		
Fisher's	Power		---		Power-50%	---	P-value	0.536			Power	---		Power-50%	---	P-value	0.550			Power	---		Power-50%	---	P-value	0.732			
Stouffer's	Power		---		Power-50%	---	P-value	0.315			Power	---		Power-50%	---	P-value	0.429			Power	---		Power-50%	---	P-value	0.500			
4825C/1424	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	
453C/453	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	
601C/601	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	
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			o			0.00	0.00		0.00			o			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-5.312. Page 2. December 15, 1994

Table C-5.312. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. August 1993. Cleared May 1990. (Continued.)

Site Pair	Mvd	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		
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	75.00	15.59	6	73.75	13.16	-	+	0.984											
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	87.50	4.56	6	97.50	1.12	-	-	0.078											
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	99.17	0.53	6	99.17	0.53	-	o	1.000											
1522C/1522	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	72.50	11.29	5	63.00	9.73	-	-	0.421											
Habitat Means			0.00	0.00		0.00	0.00		o			81.76	8.98		78.30	8.52		+												
Fisher's	Power		---		Power-50%	---	P-value	0.732			Power	0.181		Power-50%	0.999	P-value	0.372				Power	---		Power-50%	---					
Stouffer's	Power		---		Power-50%	---	P-value	0.500			Power	0.178		Power-50%	1.000	P-value	0.559				Power	---		Power-50%	---					
4825C/1424	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	27.00	16.63	5	45.50	18.34	-	-	0.509											
453C/453	2	4	0.00	0.00	6	0.83	0.83	-	-	0.363	4	11.25	3.15	6	57.50	14.07	-	-	0.037											
601C/601	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	55.42	12.41	5	62.00	19.13	-	-	0.825											
598C/598	2	6	10.83	10.83	6	0.00	0.00	-	+	0.363	6	80.00	6.83	6	77.50	6.58	-	+	0.793											
1522C/1522	2	6	0.00	0.00	4	6.88	6.88	-	-	0.391	6	23.75	8.13	4	25.00	14.47	-	-	0.941											
Habitat Means			2.16	2.16		1.54	1.54		-			39.50	9.42		53.50	14.52		-												
Fisher's	Power		---		Power-50%	---	P-value	0.454	y		Power	0.252		Power-50%	0.898	P-value	0.131				Power	---		Power-50%	---					
Stouffer's	Power		---		Power-50%	---	P-value	0.518			Power	0.209		Power-50%	0.927	P-value	0.144				Power	---		Power-50%	---					
4825C/1424	3	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	19.00	12.88	-	-	0.193											
453C/453	3	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	20.63	13.40	4	95.63	2.13	-	-	0.002											
601C/601	3	5	0.00	0.00	3	2.50	2.50	-	-	0.423	5	20.50	11.63	3	37.50	27.04	-	-	0.606											
598C/598	3	6	10.00	10.00	6	15.83	15.83	-	-	0.781	6	36.25	15.97	6	38.75	16.98	-	-	0.860											
1522C/1522	3	5	0.00	0.00	1	0.00	--	-	o	---	5	17.50	9.55	1	0.00	--	-	-	---											
Habitat Means			2.00	2.00		3.66	4.57		-			18.98	10.12		38.18	14.75		-												
Fisher's	Power		---		Power-50%	---	P-value	0.457			Power	---		Power-50%	---	P-value	0.003				Power	---		Power-50%	---					
Stouffer's	Power		---		Power-50%	---	P-value	0.341			Power	---		Power-50%	---	P-value	0.015				Power	---		Power-50%	---					

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.



**Table C-5.313. Algal Percent Cover, Totals and Seasonal Groups, Prince William Sound, Sheltered Rocky, August 1993. 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	0.06	0.06	-	-	0.374	6	0.67	0.21	5	0.40	0.40	-	+	0.550	6	30.42	17.75	5	7.00	7.00	-	+	0.251				
453C/453	1	6	0.08	0.08	5	0.00	0.00	-	+	0.363	6	1.33	0.33	5	0.60	0.24	-	+	0.122	6	46.67	15.51	5	15.00	12.55	-	+	0.113				
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	3.75	2.80	6	15.00	15.00	-	-	0.712				
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	1.25	1.25	-	-	0.363				
1522C/1522	1	6	0.00	0.00	6	0.01	0.01	-	-	0.363	6	0.67	0.21	6	0.83	0.31	-	-	0.664	6	41.67	17.54	6	47.08	16.53	-	-	0.930				
Habitat Means			0.02	0.02		0.01	0.01		-			0.63	0.20		0.43	0.26		+			24.52	10.72		17.08	10.48		-					
Fisher's	Power		---		Power-50%	---	P-value			0.446 y	Power	0.534		Power-50%	0.998	P-value			0.199	Power	0.005		Power-50%	0.312	P-value			0.688 y				
Stouffer's	Power		---		Power-50%	---	P-value			0.567	Power	0.358		Power-50%	0.994	P-value			0.356	Power	0.006		Power-50%	0.446	P-value			0.576				
4825C/1424	2	6	0.00	0.00	5	0.02	0.02	-	-	0.374	6	0.83	0.17	5	0.80	0.37	-	+	0.933	6	46.25	19.44	5	28.50	18.24	-	+	0.532				
453C/453	2	5	0.03	0.03	5	0.00	0.00	-	-	0.374	5	1.20	0.49	5	0.60	0.24	-	+	0.305	5	42.50	18.49	5	8.50	3.67	-	+	0.162				
601C/601	2	6	0.06	0.06	5	0.00	0.00	-	-	0.363	6	0.83	0.48	5	0.20	0.20	-	+	0.285	6	21.67	13.47	5	16.00	16.00	-	-	0.670				
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.50	0.22	6	0.33	0.21	-	+	0.600	6	6.25	4.41	6	32.50	20.56	-	-	0.341				
1522C/1522	2	6	0.00	0.00	1	0.00	--	-	o	---	6	0.83	0.17	1	0.00	--	-	+	---	6	38.75	12.29	1	0.00	--	-	+	---				
Habitat Means			0.02	0.02		0.00	0.00		+			0.84	0.31		0.39	0.26		+			31.12	13.62		17.10	14.63		+					
Fisher's	Power		---		Power-50%	---	P-value			0.380	Power	0.430		Power-50%	0.871	P-value			0.171	Power	0.100		Power-50%	0.280	P-value			0.249				
Stouffer's	Power		---		Power-50%	---	P-value			0.284	Power	0.453		Power-50%	0.906	P-value			0.108	Power	0.089		Power-50%	0.401	P-value			0.424				
4825C/1424	3	3	0.03	0.03	4	0.28	0.12	-	-	0.147	3	1.33	0.33	4	3.00	0.71	-	-	0.117	3	70.83	26.71	4	65.00	18.62	-	-	0.775				
453C/453	3	3	0.16	0.08	4	0.11	0.04	-	-	0.562	3	2.00	0.58	4	1.50	0.50	-	+	0.542	3	75.00	12.83	4	23.75	12.81	-	-	0.058				
601C/601	3	5	0.03	0.03	3	0.00	0.00	-	-	0.374	5	1.40	0.40	3	0.67	0.33	-	+	0.258	5	58.50	13.98	3	65.00	32.53	-	-	0.842				
598C/598	3	4	0.15	0.09	5	0.06	0.06	-	-	0.369	4	1.50	0.65	5	1.00	0.32	-	+	0.480	4	32.50	15.88	5	77.50	19.46	-	-	0.150				
1522C/1522	3	6	0.01	0.01	1	0.55	--	-	-	---	6	1.17	0.17	1	5.00	--	-	-	---	6	44.17	13.19	1	77.50	--	-	-	---				
Habitat Means			0.08	0.05		0.20	0.06		+			1.48	0.42		2.23	0.46		+			56.20	16.52		61.76	20.85		+					
Fisher's	Power		0.086		Power-50%	0.497	P-value			0.308 y	Power	0.205		Power-50%	0.967	P-value			0.288 y	Power	0.162		Power-50%	0.698	P-value			0.249 y				
Stouffer's	Power		0.017		Power-50%	0.619	P-value			0.151	Power	0.058		Power-50%	0.972	P-value			0.175	Power	0.063		Power-50%	0.767	P-value			0.548				

(a) Modified Shannon Index.

(b) Taxa richness calculations are explained in the methods.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.313. Page 1. December 15, 1994

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	2.50	5	38.00	18.07	-	-	0.066	6	67.08	19.00	5	55.00	18.64	-	+	0.811	6	30.42	17.75	5	7.00	7.00	-	-	0.251				
453C/453	1	6	0.42	0.42	5	0.00	0.00	-	+	0.363	6	52.92	15.67	5	85.00	12.55	-	-	0.111	6	45.42	15.83	5	15.00	12.55	-	-	0.125				
601C/601	1	6	10.83	4.64	6	1.67	1.67	-	+	0.044	6	85.42	4.54	6	83.33	14.76	-	+	0.706	6	3.75	2.80	6	15.00	15.00	-	-	0.712				
598C/598	1	6	6.67	4.73	6	3.75	2.39	-	+	0.615	6	93.33	4.73	6	95.00	2.81	-	+	0.774	6	0.00	0.00	6	1.25	1.25	-	-	0.363				
1522C/1522	1	6	7.50	5.24	6	3.33	2.20	-	+	0.551	6	50.83	15.50	6	49.58	17.63	-	+	0.830	6	41.67	17.54	6	46.67	16.43	-	-	0.939				
Habitat Means			5.58	3.48		9.36	4.88		+			69.90	11.88		73.58	13.30		+			24.26	10.78		17.00	10.46		-					
Fisher's	Power		---		Power-50%	---	P-value			0.098 <sub>y</sub>	Power	0.090		Power-50%	0.966	P-value			0.750 <sub>y</sub>	Power	0.005		Power-50%	0.350	P-value			0.689 <sub>y</sub>				
Stouffer's	Power		0.110		Power-50%	0.463	P-value			0.114	Power	0.070		Power-50%	0.978	P-value			0.817	Power	0.006		Power-50%	0.478	P-value			0.566				
4825C/1424	2	6	15.83	15.83	5	17.00	8.89	-	-	0.635	6	36.25	18.89	5	54.50	16.27	-	-	0.471	6	46.25	19.44	5	28.50	18.24	-	+	0.532				
453C/453	2	5	9.50	5.56	5	26.00	14.11	-	-	0.258	5	48.00	18.68	5	65.50	11.97	-	-	0.495	5	41.50	18.28	5	8.50	3.67	-	+	0.168				
601C/601	2	6	5.42	2.69	5	7.50	3.16	-	-	0.610	6	72.92	14.09	5	76.50	18.06	-	-	0.963	6	21.25	13.35	5	16.00	16.00	-	-	0.679				
598C/598	2	6	12.92	6.87	6	10.83	4.01	-	+	0.823	6	80.83	8.82	6	56.67	17.27	-	+	0.173	6	6.25	4.41	6	32.50	20.56	-	-	0.341				
1522C/1522	2	6	19.17	10.62	1	17.50	---	-	+	---	6	42.08	5.34	1	82.50	---	-	-	---	6	38.75	12.29	1	0.00	---	-	-	---				
Habitat Means			12.56	8.32		15.76	7.60		-			56.02	13.16		67.14	15.92		-			30.84	13.56		17.10	14.63		+					
Fisher's	Power		0.232		Power-50%	0.336	P-value			0.277	Power	0.105		Power-50%	0.554	P-value			0.502	Power	0.094		Power-50%	0.256	P-value			0.256				
Stouffer's	Power		0.242		Power-50%	0.446	P-value			0.266	Power	0.072		Power-50%	0.649	P-value			0.725	Power	0.080		Power-50%	0.379	P-value			0.429				
4825C/1424	3	3	0.00	0.00	4	0.00	0.00	-	-	1.000	3	9.17	6.82	4	35.00	18.62	-	-	0.306	3	35.83	27.55	4	58.13	22.02	-	-	0.447				
453C/453	3	3	0.00	0.00	4	11.25	3.89	-	-	0.017	3	25.00	12.83	4	65.00	15.03	-	-	0.119	3	55.83	29.45	4	16.25	14.60	-	+	0.280				
601C/601	3	5	9.00	7.19	3	0.00	0.00	-	-	0.160	5	32.50	8.84	3	1.67	1.67	-	+	0.016	5	58.00	13.66	3	65.00	32.53	-	-	0.822				
598C/598	3	4	0.63	0.63	5	2.00	2.00	-	-	0.769	4	46.88	22.25	5	20.50	17.47	-	+	0.340	4	23.13	12.97	5	65.50	21.16	-	-	0.171				
1522C/1522	3	6	1.67	0.83	1	2.50	---	-	-	---	6	45.00	15.47	1	20.00	---	-	+	---	6	44.17	13.19	1	65.00	---	-	-	---				
Habitat Means			2.26	1.72		3.16	1.48		-			31.72	13.24		28.44	13.20		-			43.38	19.40		53.98	22.58		-					
Fisher's	Power		0.045		Power-50%	0.005	P-value			0.112	Power	---		Power-50%	---	P-value			0.090	Power	0.115		Power-50%	0.502	P-value			0.265				
Stouffer's	Power		0.001		Power-50%	0.011	P-value			0.116	Power	0.102		Power-50%	0.627	P-value			0.368	Power	0.069		Power-50%	0.582	P-value			0.254				

Table C-5.313. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound, Sheltered Rocky, August 1993. Cleared July 1990. (Continued.)

Site Pair	Mvd	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	
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	1.25	1.25	5	0.00	0.00	-	+	0.363	6	0.00	0.00	5	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	0.42	0.42	-	-	0.363	6	0.00	0.00	6	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											
Fisher's	Power		---		Power-50%		---	P-value	0.632		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	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	1.00	1.00	5	0.00	0.00	-	+	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000										
601C/601	2	6	0.42	0.42	5	0.00	0.00	-	+	0.363	6	0.42	0.42	5	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	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---										
Habitat Means			0.28	0.28		0.00	0.00		+			0.08	0.08		0.00	0.00		+											
Fisher's	Power		---		Power-50%		---	P-value	0.299		Power	---		Power-50%		---	P-value	0.477		Power	---		Power-50%		---	P-value			
Stouffer's	Power		---		Power-50%		---	P-value	0.243		Power	---		Power-50%		---	P-value	0.415		Power	---		Power-50%		---	P-value			
4825C/1424	3	3	35.00	32.53	4	6.88	6.07	-	-	0.371	3	35.00	32.53	4	1.88	1.20	-	-	0.413										
453C/453	3	3	19.17	19.17	4	7.50	4.45	-	-	0.761	3	0.00	0.00	4	7.50	4.45	-	-	0.184										
601C/601	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										
598C/598	3	4	9.38	5.62	5	12.00	12.00	-	-	0.849	4	9.38	5.62	5	12.00	12.00	-	-	0.849										
1522C/1522	3	6	0.00	0.00	1	12.50	--	-	-	---	6	0.00	0.00	1	0.00	--	-	o	---										
Habitat Means			12.82	11.56		7.78	5.65		+			8.88	7.62		4.28	4.43		-											
Fisher's	Power		0.105		Power-50%		0.124	P-value	0.282		Power	0.002		Power-50%		0.023	P-value	0.402		Power	---		Power-50%		---	P-value			
Stouffer's	Power		0.186		Power-50%		0.289	P-value	0.363		Power	0.004		Power-50%		0.028	P-value	0.225		Power	---		Power-50%		---	P-value			

x At least one site pair p-value < 0.300 in 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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Table C-5.314. Algal Percent Cover, Chlorophyta, Prince William Sound, Sheltered Rocky, August 1993, 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	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				
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	0.00	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	5	0.00	0.00	-	+	0.374	5	0.00	0.00	5	0.00	0.00	-	+	0.374	5	0.00	0.00	5	0.00	0.00	-	+	0.374				
601C/601	2	6	0.42	0.42	5	0.00	0.00	-	+	0.363	6	0.00	0.00	5	0.00	0.00	-	+	0.363	6	0.00	0.00	5	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	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---				
Habitat Means			0.18	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		0.299	Power	---		Power-50%	---	P-value		0.698	Power	---		Power-50%	---	P-value		0.698							
Stouffer's	Power		---		Power-50%	---	P-value		0.243	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.500							
4825C/1424	3	3	35.00	32.53	4	6.25	5.45	-	+	0.361	3	0.00	0.00	4	1.88	1.20	-	-	0.191	3	0.00	0.00	4	1.88	1.20	-	-	0.191				
453C/453	3	3	0.00	0.00	4	7.50	4.45	-	+	0.184	3	0.00	0.00	4	0.00	0.00	-	+	0.184	3	0.00	0.00	4	0.00	0.00	-	+	0.184				
601C/601	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				
598C/598	3	4	9.38	5.62	5	12.00	12.00	-	-	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				
1522C/1522	3	6	0.00	0.00	1	7.50	--	-	-	---	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---				
Habitat Means			8.88	7.62		6.66	5.50	-				0.00	0.00		0.38	0.30	-				0.00	0.00		0.38	0.30	-						
Fisher's	Power		0.003		Power-50%	0.025	P-value		0.408 y	Power	0.014		Power-50%	---	P-value		0.355	Power	0.017		Power-50%	---	P-value		0.355							
Stouffer's	Power		0.009		Power-50%	0.026	P-value		0.229	Power	0.003		Power-50%	---	P-value		0.426	Power	0.003		Power-50%	---	P-value		0.426							

(a) Kormannia, Monostroma, Ulva and Ulvaria.

x At least one site pair p-value &lt; 0.100 in 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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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	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	
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	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.08	0.08		-			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		0.536	Power	---		Power-50%	---	P-value		0.732	Power	---		0.732
Stouffer's	Power		---		Power-50%	---	P-value		0.425	Power	---		Power-50%	---	P-value		0.425	Power	---		Power-50%	---	P-value		0.500	Power	---		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	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	-	+	0.374	
601C/601	2	6	0.42	0.42	5	0.00	0.00	-	+	0.363	6	0.00	0.00	5	0.00	0.00	-	+	0.363	6	0.00	0.00	5	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	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---	
Habitat Means			0.18	0.18		0.00	0.00		+			0.10	0.10		0.00	0.00		+			0.00	0.00		0.00	0.00		o		
Fisher's	Power		---		Power-50%	---	P-value		0.299	Power	---		Power-50%	---	P-value		0.483	Power	---		Power-50%	---	P-value		0.698	Power	---		0.698
Stouffer's	Power		---		Power-50%	---	P-value		0.243	Power	---		Power-50%	---	P-value		0.315	Power	---		Power-50%	---	P-value		0.500	Power	---		0.500
4825C/1424	3	3	35.00	32.53	4	4.37	4.37	-	+	0.305	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	
453C/453	3	3	0.00	0.00	4	7.50	4.45	-	+	0.184	3	0.00	0.00	4	0.00	0.00	-	+	0.100	3	0.00	0.00	4	0.00	0.00	-	o	1.000	
601C/601	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	
598C/598	3	4	9.38	5.62	5	12.00	12.00	-	+	0.849	4	0.00	0.00	5	0.00	0.00	-	+	0.100	4	0.00	0.00	5	0.00	0.00	-	o	1.000	
1522C/1522	3	6	0.00	0.00	1	7.50	--	-	+	---	6	0.00	0.00	1	7.50	--	-	+	---	6	0.00	0.00	1	0.00	--	-	o	---	
Habitat Means			8.88	7.62		6.28	5.23		-			0.00	0.00		2.38	1.10		-			0.00	0.00		0.00	0.00		o		
Fisher's	Power		0.004		Power-50%	0.026	P-value		0.414	Power	---		Power-50%	---	P-value		0.492	Power	---		Power-50%	---	P-value		0.698	Power	---		0.698
Stouffer's	Power		0.007		Power-50%	0.027	P-value		0.234	Power	---		Power-50%	---	P-value		0.452	Power	---		Power-50%	---	P-value		0.500	Power	---		0.500

Table C-5.314. Algal Percent Cover. Chlorophyta. Prince William Sound. Sheltered Rocky. August 1993. Cleared July 1990. (Continued.)

Site Pair	Mvd	Cladophora sp. (AE)								Ullothrix sp. (AE)								Urospora sp. (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
453C/453	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
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			o			0.00	0.00		0.00			o			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	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	2	6	0.42	0.42	5	0.00	0.00	-	o	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
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	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.08	0.08		0.00			-			0.00	0.00		0.00			o			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	0.415	Power		---		Power-50%		---	P-value	0.500	Power		---		Power-50%		---	P-value	0.500	
4825C/1424	3	3	35.00	32.53	4	0.00	0.00	-	-	0.347	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
453C/453	3	3	0.00	0.00	4	7.50	4.45	-	-	0.184	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
601C/601	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
598C/598	3	4	9.38	5.62	5	12.00	12.00	-	-	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
1522C/1522	3	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			8.88	7.62		3.90			-			0.00	0.00		0.00			o			0.00	0.00		0.00			o	
Fisher's	Power		0.002		Power-50%		0.021	P-value	0.409	Power		---		Power-50%		---	P-value	0.698	Power		---		Power-50%		---	P-value	0.698	
Stouffer's	Power		0.000		Power-50%		0.019	P-value	0.230	Power		---		Power-50%		---	P-value	0.500	Power		---		Power-50%		---	P-value	0.500	

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.314. Page 3. December 15, 1994

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
453C/453	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									
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	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000									
601C/601	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									
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	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	0.698	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		
4825C/1424	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									
453C/453	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									
601C/601	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									
598C/598	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									
1522C/1522	3	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	0.698	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 &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.314. Page 4. December 15, 1994

Table C-5.315. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. August 1993. 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 <i>Fucus gardneri</i> (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	30.42	17.75	5	2.50	2.50	-	+	0.175	6	30.42	17.75	5	2.50	2.50	-	+	0.175	6	30.42	17.75	5	2.50	2.50	-	+	0.175				
453C/453	1	6	44.17	16.24	5	15.00	12.55	-	+	0.142	6	44.17	16.24	5	15.00	12.55	-	+	0.142	6	44.17	16.24	5	15.00	12.55	-	+	0.142				
601C/601	1	6	0.83	0.53	6	15.00	15.00	-	-	0.493	6	0.83	0.53	6	15.00	15.00	-	-	0.493	6	0.83	0.53	6	15.00	15.00	-	-	0.493				
598C/598	1	6	0.00	0.00	6	1.25	1.25	-	-	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				
1522C/1522	1	6	41.67	17.54	6	46.67	16.43	-	-	0.939	6	41.67	17.54	6	46.67	16.43	-	-	0.939	6	41.67	17.54	6	46.67	16.43	-	-	0.939				
Habitat Means			23.42	10.40		16.10	9.56	-				23.42	10.40		16.10	9.56	-				23.42	10.40		16.10	9.56	-						
Fisher's	Power		0.004		Power-50%		0.427	P-value		0.624 y	Power	0.004		Power-50%		0.434	P-value		0.624 y	Power	0.004		Power-50%		0.424	P-value		0.624 y				
Stouffer's	Power		0.003		Power-50%		0.607	P-value		0.535	Power	0.002		Power-50%		0.594	P-value		0.535	Power	0.003		Power-50%		0.604	P-value		0.535				
4825C/1424	2	6	46.25	19.44	5	27.50	17.30	-	+	0.481	6	46.25	19.44	5	27.50	17.30	-	+	0.481	6	46.25	19.44	5	27.50	17.30	-	+	0.481				
453C/453	2	5	41.50	18.28	5	8.50	3.67	-	+	0.168	5	41.50	18.28	5	8.50	3.67	-	+	0.168	5	41.50	18.28	5	8.50	3.67	-	+	0.168				
601C/601	2	6	18.75	12.87	5	16.00	16.00	-	+	0.740	6	18.75	12.87	5	16.00	16.00	-	+	0.740	6	18.75	12.87	5	16.00	16.00	-	+	0.740				
598C/598	2	6	6.25	4.41	6	32.50	20.56	-	-	0.341	6	6.25	4.41	6	32.50	20.56	-	-	0.341	6	6.25	4.41	6	32.50	20.56	-	-	0.341				
1522C/1522	2	6	38.75	12.29	1	0.00	--	-	+	---	6	38.75	12.29	1	0.00	--	-	+	---	6	38.75	12.29	1	0.00	--	-	+	---				
Habitat Means			30.34	13.46		16.90	14.40	-	+			30.34	13.46		16.90	14.40	-	+			30.34	13.46		16.90	14.40	-	+					
Fisher's	Power		0.095		Power-50%		0.264	P-value		0.254	Power	0.094		Power-50%		0.285	P-value		0.254	Power	0.090		Power-50%		0.281	P-value		0.254				
Stouffer's	Power		0.084		Power-50%		0.408	P-value		0.432	Power	0.083		Power-50%		0.417	P-value		0.432	Power	0.084		Power-50%		0.410	P-value		0.432				
4825C/1424	3	3	35.83	27.55	4	52.50	21.70	-	-	0.561	3	35.83	27.55	4	52.50	21.70	-	-	0.561	3	35.83	27.55	4	52.50	21.70	-	-	0.561				
453C/453	3	3	43.33	24.55	4	15.63	13.97	-	+	0.393	3	43.33	24.55	4	15.63	13.97	-	+	0.393	3	43.33	24.55	4	15.63	13.97	-	+	0.393				
601C/601	3	5	56.50	12.76	3	65.00	32.53	-	-	0.774	5	56.50	12.76	3	65.00	32.53	-	-	0.774	5	56.50	12.76	3	65.00	32.53	-	-	0.774				
598C/598	3	4	21.88	11.79	5	65.50	21.16	-	-	0.160	4	21.88	11.79	5	65.50	21.16	-	-	0.160	4	21.88	11.79	5	65.50	21.16	-	-	0.160				
1522C/1522	3	6	43.75	12.89	1	5.00	--	-	+	---	6	43.75	12.89	1	5.00	--	-	+	---	6	43.75	12.89	1	5.00	--	-	+	---				
Habitat Means			40.26	17.94		40.72	22.35	-				40.26	17.94		40.72	22.35	-				40.26	17.94		40.72	22.35	-						
Fisher's	Power		0.100		Power-50%		0.487	P-value		0.270	Power	0.104		Power-50%		0.506	P-value		0.270	Power	0.106		Power-50%		0.481	P-value		0.270				
Stouffer's	Power		0.062		Power-50%		0.556	P-value		0.211	Power	0.065		Power-50%		0.584	P-value		0.211	Power	0.064		Power-50%		0.563	P-value		0.211				

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

Table C-5.315. Page 1. December 15, 1994

Adult <i>Fucus gardneri</i> (P) (> 2cm)											Juvenile <i>Fucus gardneri</i> (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	26.67	16.43	5	2.50	2.50	-	+	0.194	6	3.75	3.75	5	0.00	0.00	-	-	0.363	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000	
453C/453	1	6	44.17	16.24	5	15.00	12.55	-	+	0.142	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000	
601C/601	1	6	0.83	0.53	6	15.00	15.00	-	-	0.493	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000	
598C/598	1	6	0.00	0.00	6	0.83	0.83	-	-	0.363	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000	
1522C/1522	1	6	41.67	17.54	6	46.67	16.43	-	-	0.939	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000	
Habitat Means			22.68	10.12		16.00	9.46		-			0.76	0.76		0.08	0.08		+			0.00	0.00		0.00	0.00	0.00		o		
Fisher's	Power		0.004		Power-50%		0.443	P-value		0.621	y	Power	---		Power-50%		---	P-value		0.632	Power	---		Power-50%		---	P-value		0.732	
Stouffer's	Power		0.004		Power-50%		0.625	P-value		0.531		Power	---		Power-50%		---	P-value		0.719	Power	---		Power-50%		---	P-value		0.500	
4825C/1424	2	6	46.25	19.44	5	27.50	17.30	-	+	0.481	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000	
453C/453	2	6	40.50	18.12	5	7.00	3.39	-	+	0.149	5	1.00	1.00	5	1.50	1.50	-	-	0.644	5	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000	
601C/601	2	6	18.75	12.87	5	16.00	16.00	-	+	0.740	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000	
598C/598	2	6	5.83	4.41	6	32.50	20.56	-	-	0.328	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000	
1522C/1522	2	6	38.75	12.29	1	0.00	-	-	+	---	6	0.00	0.00	1	0.00	0.00	-	o	---	6	0.00	0.00	1	0.00	0.00	0.00	-	+	---	
Habitat Means			30.04	13.42		16.60	14.33		+			0.28	0.28		0.30	0.25		+			0.00	0.00		0.00	0.00	0.00		o		
Fisher's	Power		0.101		Power-50%		0.280	P-value		0.239	y	Power	0.001		Power-50%		---	P-value		0.541	y	Power	---		Power-50%		---	P-value		0.698
Stouffer's	Power		0.089		Power-50%		0.390	P-value		0.427		Power	0.001		Power-50%		---	P-value		0.319	Power	---		Power-50%		---	P-value		0.500	
4825C/1424	3	3	33.33	25.10	4	52.50	21.70	-	-	0.491	3	2.50	2.50	4	0.00	0.00	-	+	0.423	3	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000	
453C/453	3	3	43.33	24.55	4	13.12	11.47	-	-	0.341	3	0.00	0.00	4	2.50	2.50	-	-	0.391	3	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000	
601C/601	3	5	56.00	13.20	3	65.00	32.53	-	-	0.762	5	0.50	0.50	3	0.00	0.00	-	+	0.374	5	0.00	0.00	3	0.00	0.00	0.00	-	o	1.000	
598C/598	3	4	21.25	11.97	5	65.50	21.16	-	-	0.154	4	0.63	0.63	5	0.00	0.00	-	+	0.391	4	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000	
1522C/1522	3	6	43.75	12.89	1	5.00	-	-	+	---	6	0.00	0.00	1	0.00	0.00	-	o	---	6	0.00	0.00	1	0.00	0.00	0.00	-	o	---	
Habitat Means			39.54	17.56		40.22	21.73		-			0.72	0.72		0.50	0.63		+			0.00	0.00		0.00	0.00	0.00		o		
Fisher's	Power		0.112		Power-50%		0.512	P-value		0.249	Power	---		Power-50%		---	P-value		0.254	Power	---		Power-50%		---	P-value		0.698		
Stouffer's	Power		0.066		Power-50%		0.597	P-value		0.217	Power	---		Power-50%		---	P-value		0.295	Power	---		Power-50%		---	P-value		0.500		

Table C-5.315. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. August 1993. 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	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	
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%	---		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%	---		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	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	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	
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	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	0.698	Power	---		Power-50%	---		P-value	0.698	Power	---		Power-50%	---		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%	---		Power-50%	---		P-value	0.500	
4825C/1424	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	
453C/453	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	
601C/601	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	
598C/598	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	
1522C/1522	3	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	0.698	Power	---		Power-50%	---		P-value	0.698	Power	---		Power-50%	---		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%	---		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.

Table C-5.315. Page 3. December 15, 1994

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	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	
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			o			0.00	0.00		0.00			o			0.00	0.00		0.00			o		
Fisher's Stouffer's	Power Power		---		Power-50% Power-50%		---		P-value P-value	0.732 0.500	Power Power	---		Power-50% Power-50%		---		P-value P-value	0.732 0.500	Power Power		---		Power-50% Power-50%		---		P-value P-value	0.732 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	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	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	
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	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			o			0.00	0.00		0.00			o			0.00	0.00		0.00			o		
Fisher's Stouffer's	Power Power		---		Power-50% Power-50%		---		P-value P-value	0.698 0.500	Power Power	---		Power-50% Power-50%		---		P-value P-value	0.698 0.500	Power Power		---		Power-50% Power-50%		---		P-value P-value	0.698 0.500
4825C/1424	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	
453C/453	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	
601C/601	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	
598C/598	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	
1522C/1522	3	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			o			0.00	0.00		0.00			o			0.00	0.00		0.00			o		
Fisher's Stouffer's	Power Power		---		Power-50% Power-50%		---		P-value P-value	0.698 0.500	Power Power	---		Power-50% Power-50%		---		P-value P-value	0.698 0.500	Power Power		---		Power-50% Power-50%		---		P-value P-value	0.698 0.500

(a) Genera not separated.

(b) Elachistocarpus, Metocarpus 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-5.315. Page 4. December 15, 1994

Table C-5.315. Algal Percent Cover. Phaeophyta. Prince William Sound, Sheltered Rocky, August 1993. 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	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				
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			o			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	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	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				
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	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			o			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				
4825C/1424	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				
453C/453	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				
601C/601	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				
598C/598	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				
1522C/1522	3	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			o			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 &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.315. Page 5, December 15, 1994

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	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	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	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													
453C/453	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													
601C/601	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													
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	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	0.698	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				
4825C/1424	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													
453C/453	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													
601C/601	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													
598C/598	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													
1522C/1522	3	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	0.698	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				

Table C-5.316. Algal Percent Cover, Rhodophyta, Prince William Sound, Sheltered Rocky, August 1993, 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. (AR)										
site Pair	Mvd	N	C	SE	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	4.50	4.50	-	-	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	2.50	2.50	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				
601C/601	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	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			1.08	1.08		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		---		Power-50%	---		P-value	0.440		Power	---		Power-50%	---		P-value	0.732		Power	---		Power-50%	---		P-value	0.732					
Stouffer's	Power		---		Power-50%	---		P-value	0.285		Power	---		Power-50%	---		P-value	0.500		Power	---		Power-50%	---		P-value	0.500					
4825C/1424	2	6	0.00	0.00	5	1.00	1.00	-	-	0.374	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				
453C/453	2	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	2	6	2.50	2.50	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				
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	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---				
Habitat Means			0.60	0.60		0.20	0.25		+			0.00	0.00		0.20	0.25		-			0.00	0.00		0.00	0.00		o					
Fisher's	Power		---		Power-50%	---		P-value	0.380		Power	---		Power-50%	---		P-value	0.483		Power	---		Power-50%	---		P-value	0.698					
Stouffer's	Power		---		Power-50%	---		P-value	0.284		Power	---		Power-50%	---		P-value	0.450		Power	---		Power-50%	---		P-value	0.500					
4825C/1424	3	3	0.00	0.00	4	6.25	1.61	-	-	0.006	3	0.00	0.00	4	0.63	0.63	-	-	0.391	3	0.00	0.00	4	0.00	0.00	-	o	1.000				
453C/453	3	3	31.67	13.10	4	0.63	0.63	-	+	0.008	3	20.00	18.76	4	0.00	0.00	-	+	0.328	3	0.00	0.00	4	0.00	0.00	-	o	1.000				
601C/601	3	5	2.00	2.00	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				
598C/598	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				
1522C/1522	3	6	0.42	0.42	1	65.00	--	-	-	---	6	0.00	0.00	1	20.00	--	-	-	---	6	0.00	0.00	1	0.00	--	-	o	---				
Habitat Means			7.08	3.36		14.38	0.55		+			4.00	3.76		4.12	0.15		+			0.00	0.00		0.00	0.00		o					
Fisher's	Power		---		Power-50%	---		P-value	0.023xy		Power	0.001		Power-50%	0.001		P-value	0.556 y		Power	---		Power-50%	---		P-value	0.698					
Stouffer's	Power		---		Power-50%	---		P-value	0.026		Power	0.000		Power-50%	0.000		P-value	0.341		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-5.316, Page 1, November 16, 1994

Gigartiniaceae 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	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
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		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	1.00	1.00	-	-	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	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
601C/601	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
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	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	-	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.20	0.25		-			0.00	0.00		0.00	0.00		o			0.00	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	0.450		Power	---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---	P-value	0.500	
4825C/1424	3	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.63	0.63	-	-	0.391	3	0.00	0.00	4	0.00	0.00	-	o	1.000
453C/453	3	3	0.83	0.83	4	0.00	0.00	-	+	0.423	3	19.17	19.17	4	0.00	0.00	-	+	0.423	3	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	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
598C/598	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
1522C/1522	3	6	0.00	0.00	1	20.00	--	-	-	---	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.16	0.16		4.00	0.00		+			3.84	3.84		0.12	0.15		-			0.00	0.00		0.00	0.00		0.00	o
Fisher's	Power		---		Power-50%		---	P-value	0.508 y		Power	---		Power-50%		---	P-value	0.590 y		Power	---		Power-50%		---	P-value	0.698	
Stouffer's	Power		---		Power-50%		---	P-value	0.332		Power	---		Power-50%		---	P-value	0.623		Power	---		Power-50%		---	P-value	0.500	



Table C-5.316. Algal Percent Cover, Rhodophyta, Prince William Sound, Sheltered Rocky, August 1993. 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	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						
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										0.732									0.732															0.732
Stouffer's										0.500									0.500															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	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	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						
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	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										0.698									0.698															0.698
Stouffer's										0.500									0.500															0.500
4825C/1424	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						
453C/453	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						
601C/601	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						
598C/598	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						
1522C/1522	3	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										0.698									0.698															0.698
Stouffer's										0.500									0.500															0.500

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

Table C-5.316. Page 3, December 15, 1994

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	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
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			0.26	0.26		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	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	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	2	6	2.50	2.50	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
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	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.50	0.50		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	0.477		Power	---		Power-50%		---	P-value	0.698		Power	---		Power-50%		---	P-value	0.698	
Stouffer's	Power		---		Power-50%		---	P-value	0.415		Power	---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---	P-value	0.500	
4825C/1424	3	3	0.00	0.00	4	5.63	1.20	-	+	0.004	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
453C/453	3	3	11.67	6.51	4	0.63	0.63	-	+	0.122	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
601C/601	3	5	2.00	2.00	3	0.00	0.00	-	+	0.374	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
598C/598	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
1522C/1522	3	6	0.42	0.42	1	40.00	--	-	-	---	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			3.08	2.04		9.24	0.45		+			0.10	0.10		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's	Power		0.196		Power-50%		0.178	P-value	0.142xy		Power	---		Power-50%		---	P-value	0.483		Power	---		Power-50%		---	P-value	0.698	
Stouffer's	Power		---		Power-50%		---	P-value	0.094		Power	---		Power-50%		---	P-value	0.417		Power	---		Power-50%		---	P-value	0.500	

Table C-5.316. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. 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	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	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
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		-			0.00	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	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	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	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	2.50	2.50	5	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	-	+	0.363
1522C/1522	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			0.50	0.50		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		0.415	
4825C/1424	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	5.63	1.20	-	-	0.004
453C/453	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	11.67	6.51	4	0.63	0.63	-	+	0.122
601C/601	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	1.50	1.50	3	0.00	0.00	-	+	0.374
598C/598	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	0.00	0.00	-	+	0.391
1522C/1522	3	6	0.00	0.00	1	0.00	---	-	o	---	6	0.00	0.00	1	0.00	---	-	o	---	6	0.42	0.42	1	40.00	---	-	-	---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			2.98	1.94		9.24		0.45	+	
Fisher's	Power		---		Power-50%	---	P-value		0.698	Power	---		Power-50%	---	P-value		0.698			Power	0.199		Power-50%	0.141	P-value		0.142 <sub>xy</sub>	
Stouffer's	Power		---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.500			Power	---		Power-50%	---	P-value		0.094	

(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 5.316, Page 5, Dg

Odonthalia floccosa (P)											Pttilota/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	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	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				
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	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				
601C/601	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	-	+	0.100				
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	-	+	0.100				
1522C/1522	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			0.10	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		0.483					
Stouffer's	Power		---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.500			Power	---		Power-50%	---	P-value		0.315					
4825C/1424	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				
453C/453	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				
601C/601	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	-	+	0.100				
598C/598	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	-	+	0.100				
1522C/1522	3	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	5.00	--	-	-	---				
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		1.00	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 y					
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.

Table C 5.316, Page 6, December 15, 1994

Table C-5.316. Algal Percent Cover. Rhodophyta. Prince William Sound, Sheltered Rocky, August 1993. 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	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		
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			o			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	5	0.00	0.00	-	o	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	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		
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	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---		
Habitat Means			0.10	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	0.483	Power		---		Power-50%		---		P-value	0.698	Power		---		Power-50%		---		P-value	0.698
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	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		
453C/453	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		
601C/601	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		
598C/598	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		
1522C/1522	3	6	0.00	0.00	1	5.00	--	-	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		1.00			o			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-5.316, Page 7, December 15, 1994

Polysiphonia/Pterosiphonia (A) (a)											Morphological Group: Crustose Reds									Crustose Coralline Algae (F)								
Site Pair	Mvd	N	C	SE	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	4.50	4.30	-	-	0.374	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	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
601C/601	1	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
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			o			0.84	0.84		0.90	0.90		-			0.00	0.00		0.00	0.00			o
Fisher's	Power		---		Power-50%		---	P-value	0.732	Power	---			Power-50%		---	P-value	0.440	y	Power	---			Power-50%		---	P-value	0.732
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power	---			Power-50%		---	P-value	0.285		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	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	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
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	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			o			0.00	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
4825C/1424	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
453C/453	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
601C/601	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
598C/598	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
1522C/1522	3	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			o			0.00	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-5.316, Page 8, December 15, 1994

Table C-5.316. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. 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	5	4.50	4.50	-	-	0.374	6	0.00	0.00	5	0.00	0.00	-	o	1.000									
453C/453	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									
601C/601	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									
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			0.84	0.84		0.90	0.90					0.00	0.00		0.00	0.00		o										
Fisher's	Power		---		Power-50%		---	P-value	0.440	y	Power	---		Power-50%		---	P-value	0.732		Power	---		Power-50%		---	P-value		
Stouffer's	Power		---		Power-50%		---	P-value	0.285		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	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000									
601C/601	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									
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	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	0.698		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		
4825C/1424	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									
453C/453	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									
601C/601	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									
598C/598	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									
1522C/1522	3	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	0.698		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-5.317. Algal Percent Cover, Invertebrates, Prince William Sound, Sheltered Rocky, August 1993, 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	2.50	5	36.50	17.17	-	-	0.066	6	0.00	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	0.42	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
601C/601	1	6	6.25	4.55	6	0.42	0.42	-	+	0.262	6	2.50	1.58	6	0.00	0.00	-	-	0.103	6	1.67	1.24	6	1.25	1.25	-	-	0.701
598C/598	1	6	6.25	4.78	6	2.92	2.08	-	+	0.486	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
1522C/1522	1	6	7.08	4.85	6	3.33	2.20	-	-	0.565	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			4.52	3.44		8.62	4.38					0.58	0.40		0.16	0.10		+			0.42	0.32		0.26	0.26			
Fisher's	Power		0.085		Power-50%	0.426	P-value	0.229	xy		Power	0.008		Power-50%	0.017	P-value	0.379			Power	0.001		Power-50%	0.002	P-value	0.470		
Stouffer's	Power		0.055		Power-50%	0.594	P-value	0.126			Power	0.004		Power-50%	0.012	P-value	0.535			Power	0.002		Power-50%	0.002	P-value	0.391		
4825C/1424	2	6	15.83	15.83	5	15.50	9.03	-	+	0.703	6	0.00	0.00	5	1.50	1.00	-	-	0.186	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	2	5	8.50	4.78	5	22.00	13.00	-	-	0.286	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	1.00	1.00	5	4.00	2.57	-	-	0.392
601C/601	2	6	2.92	1.19	5	2.00	1.22	-	+	0.534	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	2.50	2.04	5	5.50	2.00	-	-	0.201
598C/598	2	6	8.33	4.07	6	5.00	2.50	-	+	0.566	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	4.58	3.19	6	5.83	2.79	-	-	0.651
1522C/1522	2	6	4.58	3.62	1	17.50	--	-	---	---	6	0.00	0.00	1	0.00	--	-	o	---	6	14.58	8.07	1	0.00	--	-	---	---
Habitat Means			8.02	5.90		12.40	6.43		-			0.00	0.00		0.30	0.25		-			4.54	2.86		3.06	1.85		-	
Fisher's	Power		0.028		Power-50%	0.330	P-value	0.477	y		Power	0.007		Power-50%	---	P-value	0.350			Power	0.198		Power-50%	0.103	P-value	0.176	y	
Stouffer's	Power		0.031		Power-50%	0.451	P-value	0.469			Power	0.001		Power-50%	---	P-value	0.426			Power	0.265		Power-50%	0.292	P-value	0.130		
4825C/1424	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
453C/453	3	3	0.00	0.00	4	5.00	3.39	-	-	0.117	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	6.25	4.73	-	-	0.218
601C/601	3	5	7.50	6.32	3	0.00	0.00	-	-	0.233	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	1.50	1.00	3	0.00	0.00	-	+	0.186
598C/598	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	0.63	0.63	5	1.50	1.50	-	-	0.832
1522C/1522	3	6	1.25	0.85	1	0.00	--	-	+	---	6	0.00	0.00	1	0.00	--	-	o	---	6	0.42	0.42	1	0.00	--	-	+	---
Habitat Means			1.76	1.44		1.10	0.97		-			0.00	0.00		0.00	0.00		o			0.50	0.40		1.56	1.55		-	
Fisher's	Power		0.019		Power-50%	0.000	P-value	0.222	y		Power	---		Power-50%	---	P-value	0.698			Power	0.006		Power-50%	0.023	P-value	0.456		
Stouffer's	Power		0.005		Power-50%	0.000	P-value	0.102			Power	---		Power-50%	---	P-value	0.500			Power	0.001		Power-50%	0.030	P-value	0.300		

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.317, Page 1, December 15, 1994

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	1.00	-	-	0.186	6	0.00	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	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
601C/601	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
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		0.30	0.20		-			0.08	0.08		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's	Power		0.005		Power-50%	---	P-value	0.415			Power	---		Power-50%	---	P-value	0.536			Power	---		Power-50%	---	P-value	0.732		
Stouffer's	Power		0.001		Power-50%	---	P-value	0.427			Power	---		Power-50%	---	P-value	0.417			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	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	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
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	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	0.698			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		
4825C/1424	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
453C/453	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
601C/601	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
598C/598	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
1522C/1522	3	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	0.698			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		

Table C-5.318. Algal Percent Cover. Substrates. Prince William Sound. Sheltered Rocky. August 1993. 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.

Site Pair	Mvd	N	Rock								Oiled Rock								Sand										
			C	SE	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	67.08	19.00	5	55.00	18.64	-	+	0.811	6	0.00	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	52.92	15.67	5	85.00	12.55	-	-	0.111	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	
601C/601	1	6	85.42	4.54	6	83.33	14.76	-	+	0.706	6	0.00	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	93.33	4.73	6	95.00	2.81	-	-	0.774	6	0.00	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	50.83	15.50	6	49.58	17.65	-	+	0.830	6	0.00	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			69.90	11.88		73.58	13.30		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o		
Fisher's	Power		0.089		Power-50%	0.964	P-value		0.750	Power	---		Power-50%	---	P-value	0.732	Power	---		Power-50%	---	P-value	0.732						
Stouffer's	Power		0.070		Power-50%	0.983	P-value		0.817	Power	---		Power-50%	---	P-value	0.500	Power	---		Power-50%	---	P-value	0.500						
4825C/1424	2	6	36.25	18.89	5	54.50	16.27	-	-	0.471	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	
453C/453	2	5	48.00	18.68	5	65.50	11.97	-	-	0.495	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	2	6	72.92	14.09	5	76.50	18.06	-	-	0.963	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	
598C/598	2	6	80.83	8.82	6	56.67	17.27	-	+	0.173	6	0.00	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	42.08	5.34	1	82.50	--	-	-	---	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---	
Habitat Means			56.02	13.16		67.14	15.92		-			0.00	0.00		0.00	0.00		o			0.34	0.34		0.00	0.00		+		
Fisher's	Power		0.100		Power-50%	0.556	P-value		0.502	Power	---		Power-50%	---	P-value	0.698	Power	---		Power-50%	---	P-value	0.477						
Stouffer's	Power		0.069		Power-50%	0.643	P-value		0.725	Power	---		Power-50%	---	P-value	0.500	Power	---		Power-50%	---	P-value	0.449						
4825C/1424	3	3	9.17	6.82	4	35.00	18.62	-	-	0.306	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	20.00	20.00	4	0.00	0.00	-	-	0.423	
453C/453	3	3	25.00	12.83	4	65.00	15.03	-	-	0.119	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	
601C/601	3	5	32.50	8.84	3	1.67	1.67	-	-	0.016	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	33.33	33.33	-	-	0.423	
598C/598	3	4	46.88	22.25	5	20.50	17.47	-	-	0.340	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	20.00	20.00	5	0.00	0.00	-	+	0.391	
1522C/1522	3	6	45.00	15.47	1	20.00	--	-	+	---	6	0.00	0.00	1	0.00	--	-	o	---	6	3.33	3.33	1	0.00	--	-	-	---	
Habitat Means			31.72	13.24		28.44	13.20		+			0.00	0.00		0.00	0.00		o			8.66	8.66		6.66	8.33		-		
Fisher's	Power		---		Power-50%	---	P-value		0.090	Power	---		Power-50%	---	P-value	0.698	Power	---		Power-50%	---	P-value	0.411						
Stouffer's	Power		0.098		Power-50%	0.644	P-value		0.368	Power	---		Power-50%	---	P-value	0.500	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-5.318A. Page 1. December 15, 1994

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	-	6	0.00	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	-	6	0.00	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	
601C/601	-	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	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	-	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	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	-	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	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	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	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	
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	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	0.698	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					
4825C/1424	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	
453C/453	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	
601C/601	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	
598C/598	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	
1522C/1522	3	6	5.83	5.83	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---	
Habitat Means			1.16	1.16	0.00	0.00	o				0.00	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-5.318B. Page 2. December 15, 1994

Table C-5.318. Algal Percent Cover, Totals and Seasonal Groups, Prince William Sound, Sheltered Rocky, August 1993, Cleared July 1990. (Continued.)

Site Pair	Mvd	N	Sand and Mud							Total Substrate																			
			C	SE	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	67.08	19.00	5	55.00	18.64	-	+	0.811										
453C/453	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	52.92	15.67	5	85.00	12.55	-	-	0.111										
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	85.42	4.54	6	83.33	14.76	-	+	0.706										
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	93.33	4.73	6	95.00	2.81	-	-	0.774										
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	50.83	15.50	6	49.58	17.65	-	+	0.830										
Habitat Means			0.00	0.00		0.00	0.00		o			69.90	11.88		73.58	13.30		+											
Fisher's	Power		---		Power-50%	---	P-value	0.732			Power	0.089		Power-50%	0.965	P-value	0.750	y		Power	---		Power-50%	---	P-value				
Stouffer's	Power		---		Power-50%	---	P-value	0.500			Power	0.068		Power-50%	0.978	P-value	0.817			Power	---		Power-50%	---	P-value				
4825C/1424	2	6	1.67	1.67	5	0.00	0.00	-	+	0.363	6	37.92	18.32	5	54.50	16.27	-	-	0.547										
453C/453	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	48.00	18.68	5	65.50	11.97	-	-	0.495										
601C/601	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	72.92	14.09	5	76.50	18.06	-	-	0.963										
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	80.83	8.82	6	56.67	17.27	-	+	0.173										
1522C/1522	2	6	0.00	0.00	1	0.00	--	-	o	---	6	42.08	5.34	1	82.50	--	-	-	---										
Habitat Means			0.34	0.34		0.00	0.00		+			56.34	13.04		67.14	15.92		-											
Fisher's	Power		---		Power-50%	---	P-value	0.477			Power	0.092		Power-50%	0.580	P-value	0.533			Power	---		Power-50%	---	P-value				
Stouffer's	Power		---		Power-50%	---	P-value	0.449			Power	0.067		Power-50%	0.669	P-value	0.731			Power	---		Power-50%	---	P-value				
4825C/1424	3	3	20.00	20.00	4	0.00	0.00	-	+	0.423	3	29.17	26.71	4	35.00	18.62	-	-	0.776										
453C/453	3	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	25.00	12.83	4	65.00	15.03	-	-	0.119										
601C/601	3	5	0.00	0.00	3	33.33	33.33	-	-	0.423	5	32.50	8.84	3	35.00	32.53	-	-	0.972										
598C/598	3	4	20.00	20.00	5	0.00	0.00	-	+	0.391	4	66.87	16.44	5	20.50	17.47	-	+	0.077										
1522C/1522	3	6	9.17	9.17	1	0.00	--	-	+	---	6	54.17	13.29	1	20.00	--	-	+	---										
Habitat Means			9.84	9.84		6.66	8.33		+			41.56	15.60		35.10	20.90		-											
Fisher's	Power		---		Power-50%	---	P-value	0.411			Power	0.020		Power-50%	0.521	P-value	0.337 <sub>xy</sub>			Power	---		Power-50%	---	P-value				
Stouffer's	Power		---		Power-50%	---	P-value	0.273			Power	0.007		Power-50%	0.585	P-value	0.695			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-5.318. Page 3, December 15, 1994

**Table C-5.319. Algal Percent Cover, Totals and Seasonal Groups, Prince William Sound, Sheltered Rocky, August 1993, 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; 0 = 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	--	0.33	0.33	-	---	0	--	--	0	--	--	0	6.67	6.67	-	---
453C/453	1	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.67	0.33	-	---	0	--	--	3	--	--	3	8.33	5.07	-	---	
601C/601	1	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.33	0.33	-	---	0	--	--	3	--	--	3	0.83	0.83	-	---	
598C/598	1	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.33	0.33	-	---	0	--	--	3	--	--	3	0.83	0.83	-	---	
1522C/1522	1	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.33	0.33	-	---	0	--	--	3	--	--	3	0.83	0.83	-	---	
Habitat Means			--	--		0.00	0.00				--	--			0.42	0.33					--	--			4.15	3.35			
Fisher's			---	---	Power-50%	---	---	P-value	---	---	Power	---	---	Power-50%	---	---	P-value	---	---	Power	---	---	Power-50%	---	---	P-value	---	---	
Stouffer's			---	---	Power-50%	---	---	P-value	---	---	Power	---	---	Power-50%	---	---	P-value	---	---	Power	---	---	Power-50%	---	---	P-value	---	---	
4825C/1424	2	0	--	--	0	--	0.09	-	---	0	--	--	0	--	0.67	0.67	-	---	0	--	--	0	--	--	0	2.50	2.50	-	---
453C/453	2	0	--	--	3	0.09	0.00	-	---	0	--	--	3	0.33	0.33	-	---	0	--	--	3	--	--	3	28.33	28.33	-	---	
601C/601	2	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.33	0.33	-	---	0	--	--	3	--	--	3	32.50	32.50	-	---	
598C/598	2	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.33	0.58	-	---	0	--	--	3	--	--	3	36.67	30.63	-	---	
1522C/1522	2	0	--	--	3	0.10	0.10	-	---	0	--	--	3	1.00	0.58	-	---	0	--	--	3	--	--	3	25.00	23.48	-	---	
Habitat Means			--	--		0.05	0.05				--	--			0.58	0.48					--	--			25.00	23.48			
Fisher's			---	---	Power-50%	---	---	P-value	---	---	Power	---	---	Power-50%	---	---	P-value	---	---	Power	---	---	Power-50%	---	---	P-value	---	---	
Stouffer's			---	---	Power-50%	---	---	P-value	---	---	Power	---	---	Power-50%	---	---	P-value	---	---	Power	---	---	Power-50%	---	---	P-value	---	---	
4825C/1424	3	0	--	--	0	--	0.00	-	---	0	--	--	0	--	0.67	0.33	-	---	0	--	--	0	--	--	0	10.83	6.51	-	---
453C/453	3	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	0	--	--	3	--	--	2	0.00	0.00	-	---	
601C/601	3	0	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	0.88	-	---	0	--	--	3	--	--	3	61.67	30.87	-	---	
598C/598	3	0	--	--	3	0.07	0.07	-	---	0	--	--	3	1.33	1.00	-	---	0	--	--	3	--	--	2	92.50	7.50	-	---	
1522C/1522	3	0	--	--	2	0.12	0.12	-	---	0	--	--	2	2.00	1.00	-	---	0	--	--	3	--	--	2	41.25	11.23	-	---	
Habitat Means			--	--		0.05	0.05				--	--			1.00	0.55					--	--			41.25	11.23			
Fisher's			---	---	Power-50%	---	---	P-value	---	---	Power	---	---	Power-50%	---	---	P-value	---	---	Power	---	---	Power-50%	---	---	P-value	---	---	
Stouffer's			---	---	Power-50%	---	---	P-value	---	---	Power	---	---	Power-50%	---	---	P-value	---	---	Power	---	---	Power-50%	---	---	P-value	---	---	

(a) MVD = 1.00 m; (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.

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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
453C/453	1	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	93.33	6.67	-	---	---	0	--	--	3	8.33	5.07	-	---	---
601C/601	1	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	91.67	5.07	-	---	---	0	--	--	3	0.83	0.83	-	---	---
598C/598	1	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	99.17	0.83	-	---	---	0	--	--	3	0.83	0.83	-	---	---
1522C/1522	1	0	--	--	3	2.50	1.44	-	---	---	0	--	--	3	96.67	0.83	-	---	---	0	--	--	3	0.83	0.83	-	---	---
Habitat Means			--	--		0.63	0.35					--	--		95.23	3.35					--	--		4.15	3.35			
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	20.00	5.20	-	---	---	0	--	--	3	77.50	3.82	-	---	---	0	--	--	3	0.83	0.83	-	---	---
601C/601	2	0	--	--	3	4.17	2.20	-	---	---	0	--	--	3	67.50	26.26	-	---	---	0	--	--	3	28.33	28.33	-	---	---
598C/598	2	0	--	--	3	1.67	1.67	-	---	---	0	--	--	3	65.83	31.70	-	---	---	0	--	--	3	32.50	32.50	-	---	---
1522C/1522	2	0	--	--	3	4.17	3.00	-	---	---	0	--	--	3	59.17	29.37	-	---	---	0	--	--	3	35.00	31.32	-	---	---
Habitat Means			--	--		7.52	3.03					--	--		67.50	22.55					--	--		24.15	23.23			
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	0.83	0.83	-	---	---	0	--	--	3	88.33	6.51	-	---	---	0	--	--	3	3.33	3.33	-	---	---
601C/601	3	0	--	--	2	16.25	13.75	-	---	---	0	--	--	2	52.50	45.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---
598C/598	3	0	--	--	3	11.67	11.67	-	---	---	0	--	--	3	26.67	19.22	-	---	---	0	--	--	3	58.33	29.49	-	---	---
1522C/1522	3	0	--	--	2	2.50	2.50	-	---	---	0	--	--	2	5.00	5.00	-	---	---	0	--	--	2	91.25	8.75	-	---	---
Habitat Means			--	--		7.83	7.20					--	--		43.12	18.93					--	--		38.23	10.40			
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-5.319, Page 2, December 15, 1994



Table C-5.319. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. August 1993. Cleared August 1989. (Continued.)

Site Pair	Mvd	N	Annals (A)							Ephemerals (AE)																			
			C	SE	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	--	--	3	0.00	0.00	--	--	0	--	--	3	0.00	0.00	--	--	--	--	--									
598C/598	1	0	--	--	3	0.00	0.00	--	--	0	--	--	3	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	---	Power	---		Power-50%
Stouffer's	Power		---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---	Power	---		Power-50%
4825C/1424	2	0	--	--	0	--	--	--	--	0	--	--	0	--	--	--	--	--	--	--									
453C/453	2	0	--	--	3	1.67	1.67	--	--	0	--	--	3	1.67	1.67	--	--	--	--	--									
601C/601	2	0	--	--	3	0.00	0.00	--	--	0	--	--	3	0.00	0.00	--	--	--	--	--									
598C/598	2	0	--	--	3	0.00	0.00	--	--	0	--	--	3	0.00	0.00	--	--	--	--	--									
1522C/1522	2	0	--	--	3	1.67	1.67	--	--	0	--	--	3	0.00	0.00	--	--	--	--	--									
Habitat Means			--	--		0.85	0.85				--	--		0.85	0.85														
Fisher's	Power		---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---	Power	---		Power-50%
Stouffer's	Power		---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---	Power	---		Power-50%
4825C/1424	3	0	--	--	0	--	--	--	--	0	--	--	0	--	--	--	--	--	--	--									
453C/453	3	0	--	--	3	7.50	7.50	--	--	0	--	--	3	7.50	7.50	--	--	--	--	--									
601C/601	3	0	--	--	2	0.00	0.00	--	--	0	--	--	2	0.00	0.00	--	--	--	--	--									
598C/598	3	0	--	--	3	3.33	3.33	--	--	0	--	--	3	3.33	3.33	--	--	--	--	--									
1522C/1522	3	0	--	--	2	1.25	1.25	--	--	0	--	--	2	0.00	0.00	--	--	--	--	--									
Habitat Means			--	--		3.03	3.03				--	--		2.70	2.70														
Fisher's	Power		---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---	Power	---		Power-50%
Stouffer's	Power		---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---	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-5.320. Algal Percent Cover. Chlorophyta. Prince William Sound. Sheltered Rocky. August 1993. 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; 0 = 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	0	--	--	0	--	--	-	---	0	--	--	0	--	--	--	-	---	0	--	--	--	0	--	--	0	--	-	---			
453C/453	1	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	0	--	--	0	--	--	3	0.00	0.00	-	---			
601C/601	1	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	0	--	--	0	--	--	3	0.00	0.00	-	---			
598C/598	1	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	0	--	--	0	--	--	3	0.00	0.00	-	---			
1522C/1522	1	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	0	--	--	0	--	--	3	0.00	0.00	-	---			
Habitat Means			--	--		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	---			
4825C/1424	2	0	--	--	0	--	--	-	---	0	--	--	0	--	--	--	-	---	0	--	--	0	--	--	0	--	-	---				
453C/453	2	0	--	--	3	1.67	1.67	-	---	0	--	--	3	0.00	0.00	0.00	-	---	0	--	--	0	--	--	3	0.00	0.00	-	---			
601C/601	2	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	0	--	--	0	--	--	3	0.00	0.00	-	---			
598C/598	2	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	0	--	--	0	--	--	3	0.00	0.00	-	---			
1522C/1522	2	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	0	--	--	0	--	--	3	0.00	0.00	-	---			
Habitat Means			--	--		0.42	0.42				--	--		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	--	--	0	--	-	---				
453C/453	3	0	--	--	3	7.50	7.50	-	---	0	--	--	3	0.00	0.00	0.00	-	---	0	--	--	0	--	--	3	0.00	0.00	-	---			
601C/601	3	0	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	0.00	0.00	-	---	0	--	--	0	--	--	2	0.00	0.00	-	---			
598C/598	3	0	--	--	3	3.33	3.33	-	---	0	--	--	3	0.00	0.00	0.00	-	---	0	--	--	0	--	--	3	0.00	0.00	-	---			
1522C/1522	3	0	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	0.00	0.00	-	---	0	--	--	0	--	--	2	0.00	0.00	-	---			
Habitat Means			--	--		2.70	2.70				--	--		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) Kormannia, Monostroma, Ulva and Ulvaria.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.320. Page 1. December 15, 1994

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	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	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	---	0	--	--	3	0.00	0.00	-	---	---	
598C/598	1	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	---	0	--	--	3	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	1.67	1.67	-	---	---	0	--	--	3	0.00	0.00	-	---	---	---	0	--	--	3	0.00	0.00	-	---	---	
601C/601	2	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	---	0	--	--	3	0.00	0.00	-	---	---	
598C/598	2	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	---	0	--	--	3	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			--	--		0.42	0.42					--	--		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	7.50	7.50	-	---	---	0	--	--	3	0.00	0.00	-	---	---	---	0	--	--	3	0.00	0.00	-	---	---	
601C/601	3	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	---	0	--	--	2	0.00	0.00	-	---	---	
598C/598	3	0	--	--	3	3.33	3.33	-	---	---	0	--	--	3	0.00	0.00	-	---	---	---	0	--	--	3	0.00	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			--	--		2.70	2.70					--	--		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 &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.320. Page 2. December 15, 1994

Table C-5.320. Algal Percent Cover. Chlorophyta. Prince William Sound. Sheltered Rocky. August 1993. Cleared August 1989. (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	0	--	--	0	--	--	-	---	0	--	--	0	--	--	0.00	0.00	-	---	0	--	--	0	--	--	0.00	0.00	-	---
453C/453	1	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	0.00	-	---	
601C/601	1	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	0.00	-	---	
598C/598	1	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	0.00	-	---	
1522C/1522	1	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	0.00	-	---	
Habitat Means			--	--		0.00	0.00				--	--		0.00	0.00	0.00				--	--			0.00	0.00				
Fisher's			---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---			
Stouffer's			---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---			
4825C/1424	2	0	--	--	0	--	--	-	---	0	--	--	0	--	--	0.00	0.00	-	---	0	--	--	0	--	--	0.00	0.00	-	---
453C/453	2	0	--	--	3	1.67	1.67	-	---	0	--	--	3	0.00	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	0.00	-	---	
601C/601	2	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	0.00	-	---	
598C/598	2	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	0.00	-	---	
1522C/1522	2	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	0.00	-	---	
Habitat Means			--	--		0.42	0.42				--	--		0.00	0.00	0.00				--	--			0.00	0.00				
Fisher's			---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---			
Stouffer's			---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---			
4825C/1424	3	0	--	--	0	--	--	-	---	0	--	--	0	--	--	0.00	0.00	-	---	0	--	--	0	--	--	0.00	0.00	-	---
453C/453	3	0	--	--	3	7.50	7.50	-	---	0	--	--	3	0.00	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	0.00	-	---	
601C/601	3	0	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	0.00	0.00	-	---	0	--	--	2	0.00	0.00	0.00	0.00	-	---	
598C/598	3	0	--	--	3	3.33	3.33	-	---	0	--	--	3	0.00	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	0.00	-	---	
1522C/1522	3	0	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	0.00	0.00	-	---	0	--	--	2	0.00	0.00	0.00	0.00	-	---	
Habitat Means			--	--		2.70	2.70				--	--		0.00	0.00	0.00				--	--			0.00	0.00				
Fisher's			---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---			
Stouffer's			---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---			

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

Table C-5.320. Page 3. December 15, 1994

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	
453C/453	1	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	---	---	---	---	---	---	---	---	---	---	---	---
601C/601	1	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	---	---	---	---	---	---	---	---	---	---	---	---
598C/598	1	0	--	--	3	0.00	0.00	-	---	0	--	--	3	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	---		Power-50%	---	P-value	---
Stouffer's		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		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	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	---	---	---	---	---	---	---	---	---	---	---	---
598C/598	2	0	--	--	3	0.00	0.00	-	---	0	--	--	3	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	---		Power-50%	---	P-value	---
Stouffer's		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		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	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	0.00	-	---	---	---	---	---	---	---	---	---	---	---	---	---
598C/598	3	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	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	---		Power-50%	---	P-value	---
Stouffer's		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power-50%	---	P-value	---

(a) Genera not separated.

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

Table C-5.320. Page 4. December 15, 1994

Table C-5.321. Algal Percent Cover. Phaeophyta. Prince William Sound, Sheltered Rocky, August 1993. 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 <i>Fucus gardneri</i> (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	6.67	6.67	--	--	--	0	--	--	3	6.67	6.67	--	--	--	--	0	--	--	3	6.67	6.67	--	--				
601C/601	1	0	--	--	3	8.33	5.07	--	--	--	0	--	--	3	8.33	5.07	--	--	--	--	0	--	--	3	8.33	5.07	--	--				
598C/598	1	0	--	--	3	0.83	0.83	--	--	--	0	--	--	3	0.83	0.83	--	--	--	--	0	--	--	3	0.83	0.83	--	--				
1522C/1522	1	0	--	--	3	0.83	0.83	--	--	--	0	--	--	3	0.83	0.83	--	--	--	--	0	--	--	3	0.83	0.83	--	--				
Habitat Means			--	--		4.15	3.35					--	--		4.15	3.35					--	--			4.15	3.35						
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	0.83	0.83	--	--	--	--	0	--	--	3	0.83	0.83	--	--				
601C/601	2	0	--	--	3	28.33	28.33	--	--	--	0	--	--	3	28.33	28.33	--	--	--	--	0	--	--	3	28.33	28.33	--	--				
598C/598	2	0	--	--	3	32.50	32.50	--	--	--	0	--	--	3	32.50	32.50	--	--	--	--	0	--	--	3	32.50	32.50	--	--				
1522C/1522	2	0	--	--	3	36.67	30.63	--	--	--	0	--	--	3	35.00	31.32	--	--	--	--	0	--	--	3	35.00	31.32	--	--				
Habitat Means			--	--		24.58	23.05					--	--		24.15	23.23					--	--			24.15	23.23						
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	3.33	3.33	--	--	--	0	--	--	3	3.33	3.33	--	--	--	--	0	--	--	3	3.33	3.33	--	--				
601C/601	3	0	--	--	2	0.00	0.00	--	--	--	0	--	--	2	0.00	0.00	--	--	--	--	0	--	--	2	0.00	0.00	--	--				
598C/598	3	0	--	--	3	57.50	29.19	--	--	--	0	--	--	3	57.50	29.19	--	--	--	--	0	--	--	3	57.50	29.19	--	--				
1522C/1522	3	0	--	--	2	56.25	43.75	--	--	--	0	--	--	2	56.25	43.75	--	--	--	--	0	--	--	2	56.25	43.75	--	--				
Habitat Means			--	--		29.28	19.07					--	--		29.28	19.07					--	--			29.28	19.07						
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-5.321. Page 1, December 15, 1994

Adult <i>Fucus gardneri</i> (P) (> 2cm)											Juvenile <i>Fucus gardneri</i> (P) (<= 2cm)											<i>Fucus</i> 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				
453C/453	1	0	--	--	3	6.67	6.67	-	---	0	--	--	3	0.00	0.00	-	---	0	--	0	--	--	3	0.00	0.00	-	---	---				
601C/601	1	0	--	--	3	7.50	4.33	-	---	0	--	--	3	0.83	0.83	-	---	0	--	0	--	--	3	0.00	0.00	-	---	---				
598C/598	1	0	--	--	3	0.83	0.83	-	---	0	--	--	3	0.00	0.00	-	---	0	--	0	--	--	3	0.00	0.00	-	---	---				
1522C/1522	1	0	--	--	3	0.83	0.83	-	---	0	--	--	3	0.00	0.00	-	---	0	--	0	--	--	3	0.00	0.00	-	---	---				
Habitat Means			--	--		3.95	3.15				--	--		0.20	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	2	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	0	--	--	0	--	--	-	---	---				
453C/453	2	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.83	0.83	-	---	0	--	0	--	--	3	0.00	0.00	-	---	---				
601C/601	2	0	--	--	3	28.33	28.33	-	---	0	--	--	3	0.00	0.00	-	---	0	--	0	--	--	3	0.00	0.00	-	---	---				
598C/598	2	0	--	--	3	32.50	32.50	-	---	0	--	--	3	0.00	0.00	-	---	0	--	0	--	--	3	0.00	0.00	-	---	---				
1522C/1522	2	0	--	--	3	35.00	31.32	-	---	0	--	--	3	0.00	0.00	-	---	0	--	0	--	--	3	0.00	0.00	-	---	---				
Habitat Means			--	--		23.95	23.03				--	--		0.20	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	--	--	0	--	--	-	---	---				
453C/453	3	0	--	--	3	0.00	0.00	-	---	0	--	--	3	3.33	3.33	-	---	0	--	0	--	--	3	0.00	0.00	-	---	---				
601C/601	3	0	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	0.00	-	---	0	--	0	--	--	2	0.00	0.00	-	---	---				
598C/598	3	0	--	--	3	57.50	29.19	-	---	0	--	--	3	0.00	0.00	-	---	0	--	0	--	--	3	0.00	0.00	-	---	---				
1522C/1522	3	0	--	--	2	56.25	43.75	-	---	0	--	--	2	0.00	0.00	-	---	0	--	0	--	--	2	0.00	0.00	-	---	---				
Habitat Means			--	--		28.45	18.25				--	--		0.83	0.83				--	--	--			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-5.321. Page 2, December 15, 1994

Table C-5.321. Algal Percent Cover. Phaeophyta. Prince William Sound, Sheltered Rocky, August 1993. Cleared August 1989. (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	0	--	--	0	--	--	-	---	0	--	--	0	--	--	0	-	---	0	--	0	--	--	0	--	--	-	---	0
453C/453	1	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	0	--	0	--	--	3	0.00	0.00	-	---	0
601C/601	1	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	0	--	0	--	--	3	0.00	0.00	-	---	0
598C/598	1	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	0	--	0	--	--	3	0.00	0.00	-	---	0
1522C/1522	1	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	0	--	0	--	--	3	0.00	0.00	-	---	0
Habitat Means			--	--		0.00	0.00				--	--		0.00	0.00	0.00					--	--			0.00	0.00			
Fisher's			---	---	Power-50%	---	---	P-value	---	---	Power	---	---	Power-50%	---	---	P-value	---	---	Power	---	---	Power-50%	---	---	P-value	---	---	---
Stouffer's			---	---	Power-50%	---	---	P-value	---	---	Power	---	---	Power-50%	---	---	P-value	---	---	Power	---	---	Power-50%	---	---	P-value	---	---	---
4825C/1424	2	0	--	--	0	--	--	-	---	0	--	--	0	--	--	0	-	---	0	--	0	--	--	0	--	--	-	---	0
453C/453	2	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	0	--	0	--	--	3	0.00	0.00	-	---	0
601C/601	2	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	0	--	0	--	--	3	0.00	0.00	-	---	0
598C/598	2	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	0	--	0	--	--	3	0.00	0.00	-	---	0
1522C/1522	2	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	0	--	0	--	--	3	0.00	0.00	-	---	0
Habitat Means			--	--		0.00	0.00				--	--		0.00	0.00	0.00					--	--			0.00	0.00			
Fisher's			---	---	Power-50%	---	---	P-value	---	---	Power	---	---	Power-50%	---	---	P-value	---	---	Power	---	---	Power-50%	---	---	P-value	---	---	---
Stouffer's			---	---	Power-50%	---	---	P-value	---	---	Power	---	---	Power-50%	---	---	P-value	---	---	Power	---	---	Power-50%	---	---	P-value	---	---	---
4825C/1424	3	0	--	--	0	--	--	-	---	0	--	--	0	--	--	0	-	---	0	--	0	--	--	0	--	--	-	---	0
453C/453	3	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	0	--	0	--	--	3	0.00	0.00	-	---	0
601C/601	3	0	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	0.00	0.00	-	---	0	--	0	--	--	3	0.00	0.00	-	---	0
598C/598	3	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	0	--	0	--	--	3	0.00	0.00	-	---	0
1522C/1522	3	0	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	0.00	0.00	-	---	0	--	0	--	--	2	0.00	0.00	-	---	0
Habitat Means			--	--		0.00	0.00				--	--		0.00	0.00	0.00					--	--			0.00	0.00			
Fisher's			---	---	Power-50%	---	---	P-value	---	---	Power	---	---	Power-50%	---	---	P-value	---	---	Power	---	---	Power-50%	---	---	P-value	---	---	---
Stouffer's			---	---	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-5.321. Page 3, December 15, 1994

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	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	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.00	0.00	--	--	---	---	0	--	--	3	0.00	0.00	--	---	
598C/598	1	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.00	0.00	--	--	---	---	0	--	--	3	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-50%	---	---	P-value	---	---	Power	---	---	Power-50%	---	---	P-value	---	---	Power	---	---	Power-50%	---	---	P-value	---	---	
Stouffer's			---	---	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	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.00	0.00	--	--	---	---	0	--	--	3	0.00	0.00	--	---	
598C/598	2	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.00	0.00	--	--	---	---	0	--	--	3	0.00	0.00	--	---	
1522C/1522	2	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	1.67	1.67	--	--	---	---	0	--	--	3	1.67	1.67	--	---	
Habitat Means			--	--		0.00	0.00				--	--	--		0.42	0.42				--	--	--		0.42	0.42				
Fisher's			---	---	Power-50%	---	---	P-value	---	---	Power	---	---	Power-50%	---	---	P-value	---	---	Power	---	---	Power-50%	---	---	P-value	---	---	
Stouffer's			---	---	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	--	--	2	0.00	0.00	--	--	---	0	--	--	2	0.00	0.00	--	--	---	---	0	--	--	2	0.00	0.00	--	---	
598C/598	3	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.00	0.00	--	--	---	---	0	--	--	3	0.00	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-50%	---	---	P-value	---	---	Power	---	---	Power-50%	---	---	P-value	---	---	Power	---	---	Power-50%	---	---	P-value	---	---	
Stouffer's			---	---	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-5.321. Page 4, December 15, 1994

Table C-5.321. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. August 1993. Cleared August 1989. (Continued.)

Morphological Group: Saccate Browns											Leathesia/Colpomenia (A) (a)											Soranthera ulvoides (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	--	--	3	0.00	0.00	-	--	---	0	--	--	3	0.00	0.00	-	--	---	0	--	--	3	0.00	0.00	-	--	---				
598C/598	1	0	--	--	3	0.00	0.00	-	--	---	0	--	--	3	0.00	0.00	-	--	---	0	--	--	3	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	--	--	3	0.00	0.00	-	--	---	0	--	--	3	0.00	0.00	-	--	---	0	--	--	3	0.00	0.00	-	--	---				
598C/598	2	0	--	--	3	0.00	0.00	-	--	---	0	--	--	3	0.00	0.00	-	--	---	0	--	--	3	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	--	--	2	0.00	0.00	-	--	---	0	--	--	2	0.00	0.00	-	--	---	0	--	--	2	0.00	0.00	-	--	---				
598C/598	3	0	--	--	3	0.00	0.00	-	--	---	0	--	--	3	0.00	0.00	-	--	---	0	--	--	3	0.00	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-5.321. Page 5, December 15, 1994

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	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	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.00	0.00	--	--	---		0	--	--	3	0.00	0.00	--	--	---			
598C/598	1	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.00	0.00	--	--	---		0	--	--	3	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	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.00	0.00	--	--	---		0	--	--	3	0.00	0.00	--	--	---			
598C/598	2	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.00	0.00	--	--	---		0	--	--	3	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	--	--	2	0.00	0.00	--	--	---	0	--	--	2	0.00	0.00	--	--	---		0	--	--	2	0.00	0.00	--	--	---			
598C/598	3	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.00	0.00	--	--	---		0	--	--	3	0.00	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-5.321. Page 6, December 15, 1994

Table C-5.322. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. 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	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	---	0	--	--	3	0.00	0.00	-	---	---
598C/598	1	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	---	0	--	--	3	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	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	---	0	--	--	3	0.00	0.00	-	---	---
598C/598	2	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	---	0	--	--	3	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	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	---	0	--	--	2	0.00	0.00	-	---	---
598C/598	3	0	--	--	3	0.83	0.83	-	---	---	0	--	--	3	0.83	0.83	-	---	---	---	0	--	--	3	0.00	0.00	-	---	---
1522C/1522	3	0	--	--	2	36.25	36.25	-	---	---	0	--	--	2	0.00	0.00	-	---	---	---	0	--	--	2	0.00	0.00	-	---	---
Habitat Means			--	--		9.27	9.27					--	--		0.20	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	---		

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

Table C-5.322, Page 1, December 15, 1994

Gigartinaeae 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	--	--	3	0.00	0.00	~	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	
598C/598	1	0	--	--	3	0.00	0.00	~	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	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	--	--	3	0.00	0.00	~	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	
598C/598	2	0	--	--	3	0.00	0.00	~	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	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	--	--	2	0.00	0.00	~	---	---	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	
598C/598	3	0	--	--	3	0.83	0.83	~	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	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			--	--		0.20	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	---	---	

(a) Chondrus, Tridacna, 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-5.322, Page 2, December 15, 1994

Table C-5.322. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. Cleared August 1989. (Continued.)

Porphyra sp. (A)											Rhodymenia pertusa (A)								Tokidadendron kurilensis (A)										
Site Pair	M	N	C	SE	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	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.00	0.00	--	--	---	
598C/598	1	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	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-50%				P-value					Power-50%				P-value						Power-50%			P-value	
Stouffer's						Power-50%				P-value					Power-50%				P-value						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	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.00	0.00	--	--	---	
598C/598	2	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	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-50%				P-value					Power-50%				P-value						Power-50%			P-value	
Stouffer's						Power-50%				P-value					Power-50%				P-value						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	--	--	2	0.00	0.00	--	--	---	0	--	--	2	0.00	0.00	--	--	---	0	--	--	3	0.00	0.00	--	--	---	
598C/598	3	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.00	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-50%				P-value					Power-50%				P-value						Power-50%			P-value	
Stouffer's						Power-50%				P-value					Power-50%				P-value						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-5.322, Page 3, December 15, 1994

Morphological Group: Coarse Filamentous Reds											Articulate Coralline Algae (A)										Cryptosiphonia woodii (A)									
Site Pair	M	N	C	SE	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	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	---	0	--	--	3	0.00	0.00	-	---	---	
598C/598	1	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	---	0	--	--	3	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	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	---	0	--	--	3	0.00	0.00	-	---	---	
598C/598	2	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	---	0	--	--	3	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	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	---	0	--	--	2	0.00	0.00	-	---	---	
598C/598	3	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	---	0	--	--	3	0.00	0.00	-	---	---	
1522C/1522	3	0	--	--	2	35.00	35.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	---	0	--	--	2	0.00	0.00	-	---	---	
Habitat Means			--	--		8.75	8.75					--	--		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-5.322, Page 4, December 15, 1994



Table C-5.322. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. 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	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.00	0.00	--	--	---				
598C/598	1	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	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-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---				
Stouffer's			---		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	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.00	0.00	--	--	---				
598C/598	2	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	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-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---				
Stouffer's			---		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	--	--	2	0.00	0.00	--	--	---	0	--	--	2	0.00	0.00	--	--	---	0	--	--	2	0.00	0.00	--	--	---				
598C/598	3	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.00	0.00	--	--	---				
1522C/1522	3	0	--	--	2	0.00	0.00	--	--	---	0	--	--	2	0.00	0.00	--	--	---	0	--	--	2	35.00	35.00	--	--	---				
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		8.75	8.75							
Fisher's			---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---				
Stouffer's			---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---				

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

Table C-5.322. Page 5. December 15, 1994

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	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	---	0	--	--	3	0.00	0.00	-	---	---			
598C/598	1	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	---	0	--	--	3	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	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	---	0	--	--	3	0.00	0.00	-	---	---			
598C/598	2	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	---	0	--	--	3	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	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	---	0	--	--	2	0.00	0.00	-	---	---			
598C/598	3	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---	---	0	--	--	3	0.00	0.00	-	---	---			
1522C/1522	3	0	--	--	2	0.00	0.00	-	---	---	0	--	--	2	0.00	0.00	-	---	---	---	0	--	--	2	1.25	1.25	-	---	---			
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--			0.33	0.33						
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.  
 \* At least one site pair p-value < 0.100 in opposite direction of overall tests.  
 y Direction of difference between habitat means is different than direction of overall tests.  
 z Only one site pair.

Table C-5.322. Page 6. December 15, 1994

Table C-5.322. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. Cleared August 1989. (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	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	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.00	0.00	--	--	---				
598C/598	1	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	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-50%	---	P-value	---			Power	---	---	Power-50%	---	P-value	---			Power	---	---	Power-50%	---	P-value	---						
Stouffer's			---	---	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	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.00	0.00	--	--	---				
598C/598	2	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	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-50%	---	P-value	---			Power	---	---	Power-50%	---	P-value	---			Power	---	---	Power-50%	---	P-value	---						
Stouffer's			---	---	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	--	--	2	0.00	0.00	--	--	---	0	--	--	2	0.00	0.00	--	--	---	0	--	--	2	0.00	0.00	--	--	---				
598C/598	3	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.00	0.00	--	--	---	0	--	--	3	0.00	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			--	--		0.33	0.33					--	--		0.00	0.00					--	--			0.00	0.00						
Fisher's			---	---	Power-50%	---	P-value	---			Power	---	---	Power-50%	---	P-value	---			Power	---	---	Power-50%	---	P-value	---						
Stouffer's			---	---	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-5.322. Page 7. December 15, 1994

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	0	--	--	0	--	--	-	---	0	--	--	0	--	--	--	-	---	0	--	0	--	--	0	--	--	-	---	---	
453C/453	1	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	0	--	0	--	--	3	0.00	0.00	-	---	---	
601C/601	1	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	0	--	0	--	--	3	0.00	0.00	-	---	---	
598C/598	1	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	0	--	0	--	--	3	0.00	0.00	-	---	---	
1522C/1522	1	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	0	--	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	--	--	0	--	--	-	---	---	
453C/453	2	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	0	--	0	--	--	3	0.00	0.00	-	---	---	
601C/601	2	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	0	--	0	--	--	3	0.00	0.00	-	---	---	
598C/598	2	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	0	--	0	--	--	3	0.00	0.00	-	---	---	
1522C/1522	2	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	0	--	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	--	--	0	--	--	-	---	---	
453C/453	3	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	0	--	0	--	--	3	0.00	0.00	-	---	---	
601C/601	3	0	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	0.00	0.00	-	---	0	--	0	--	--	2	0.00	0.00	-	---	---	
598C/598	3	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	0	--	0	--	--	3	0.00	0.00	-	---	---	
1522C/1522	3	0	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	0.00	0.00	-	---	0	--	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) UNITS: % COV. (a) UNITS: % COV.

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

Table C-5.322. Page 8. December 15, 1994

Table C-5.322. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. 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	--	--	--	-	---	---	---	N	C	SE	N	O	SE	CV	D	P
453C/453	1	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	---	---									
601C/601	1	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	---	---									
598C/598	1	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	---	---									
1522C/1522	1	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	---	---									
Habitat Means			--	--		0.00	0.00				--	--		0.00	0.00	0.00													
Fisher's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power	---		Power-50%	---	P-value	---		
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power	---		Power-50%	---	P-value	---		
4825C/1424	2	0	--	--	0	--	--	-	---	0	--	--	0	--	--	--	-	---	---	---	Power			Power-50%	---	P-value	---		
453C/453	2	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	---	---									
601C/601	2	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	---	---									
598C/598	2	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	---	---									
1522C/1522	2	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	---	---									
Habitat Means			--	--		0.00	0.00				--	--		0.00	0.00	0.00													
Fisher's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power	---		Power-50%	---	P-value	---		
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power	---		Power-50%	---	P-value	---		
4825C/1424	3	0	--	--	0	--	--	-	---	0	--	--	0	--	--	--	-	---	---	---	Power			Power-50%	---	P-value	---		
453C/453	3	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	---	---									
601C/601	3	0	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	0.00	0.00	-	---	---	---									
598C/598	3	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	---	---									
1522C/1522	3	0	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	0.00	0.00	-	---	---	---									
Habitat Means			--	--		0.00	0.00				--	--		0.00	0.00	0.00													
Fisher's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power	---		Power-50%	---	P-value	---		
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power	---		Power-50%	---	P-value	---		

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

Table C-5.323. Algal Percent Cover. Invertebrates. Prince William Sound. Sheltered Rocky. August 1993. 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	--	--	3	0.00	0.00	--	--	--	--	0	--	--	3	0.00	0.00	--	--	--	--	0	--	--	3	0.00	0.00	--	--			
598C/598	1	0	--	--	3	0.00	0.00	--	--	--	--	0	--	--	3	0.00	0.00	--	--	--	--	0	--	--	3	0.00	0.00	--	--			
1522C/1522	1	0	--	--	3	2.50	1.44	--	--	--	--	0	--	--	3	0.00	0.00	--	--	--	--	0	--	--	3	0.00	0.00	--	--			
Habitat Means			--	--		0.63	0.35						--	--		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	14.17	7.95	--	--	--	--	0	--	--	3	0.00	0.00	--	--	--	--	0	--	--	3	5.83	3.00	--	--			
601C/601	2	0	--	--	3	2.50	1.44	--	--	--	--	0	--	--	3	0.00	0.00	--	--	--	--	0	--	--	3	1.67	1.67	--	--			
598C/598	2	0	--	--	3	1.67	1.67	--	--	--	--	0	--	--	3	0.00	0.00	--	--	--	--	0	--	--	3	0.00	0.00	--	--			
1522C/1522	2	0	--	--	3	2.50	1.44	--	--	--	--	0	--	--	3	0.00	0.00	--	--	--	--	0	--	--	3	0.00	0.00	--	--			
Habitat Means			--	--		5.23	3.13						--	--		0.00	0.00					--	--			1.88	1.18					
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	0.83	0.83	--	--	--	--	0	--	--	3	0.00	0.00	--	--	--	--	0	--	--	3	0.00	0.00	--	--			
601C/601	3	0	--	--	2	8.75	8.75	--	--	--	--	0	--	--	2	0.00	0.00	--	--	--	--	0	--	--	2	7.50	5.00	--	--			
598C/598	3	0	--	--	3	2.50	2.50	--	--	--	--	0	--	--	3	0.00	0.00	--	--	--	--	0	--	--	3	9.17	9.17	--	--			
1522C/1522	3	0	--	--	2	0.00	0.00	--	--	--	--	0	--	--	2	0.00	0.00	--	--	--	--	0	--	--	2	2.50	2.50	--	--			
Habitat Means			--	--		3.02	3.02						--	--		0.00	0.00					--	--			4.80	4.18					
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.

```

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Mucella lamellosa													Littorinidae								Mollusca						
Site	Pair	Mod	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	CV						
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	--	--	3	0.00	0.00	-	---			0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---
598C/598	1	0	--	--	3	0.00	0.00	-	---			0	--	--	3	0.00	0.00	-	---	0	--	--	3	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	--	--	3	0.00	0.00	-	---			0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---
598C/598	2	0	--	--	3	0.00	0.00	-	---			0	--	--	3	0.00	0.00	-	---	0	--	--	3	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	--	--	2	0.00	0.00	-	---			0	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	0.00	-	---
598C/598	3	0	--	--	3	0.00	0.00	-	---			0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	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 2 5.323, Page 2, December 15, 1994

Table C-5.324. Algal Percent Cover. Substrates. Prince William Sound. Sheltered Rocky. August 1993. 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	N	Rock							Oiled Rock							Sand											
			C	SE	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	93.33	6.67	--	--	0	--	--	3	0.00	0.00	--	--	0	--	--	--	3	0.00	0.00	0.00	--	--	
601C/601	1	0	--	--	3	91.67	5.07	--	--	0	--	--	3	0.00	0.00	--	--	0	--	--	--	3	0.00	0.00	0.00	--	--	
598C/598	1	0	--	--	3	99.17	0.83	--	--	0	--	--	3	0.00	0.00	--	--	0	--	--	--	3	0.00	0.00	0.00	--	--	
1522C/1522	1	0	--	--	3	96.67	0.83	--	--	0	--	--	3	0.00	0.00	--	--	0	--	--	--	3	0.00	0.00	0.00	--	--	
Habitat Means			--	--		95.23	3.35				--	--		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	77.50	3.82	--	--	0	--	--	3	0.00	0.00	--	--	0	--	--	--	3	0.00	0.00	0.00	--	--	
601C/601	2	0	--	--	3	67.50	26.26	--	--	0	--	--	3	0.00	0.00	--	--	0	--	--	--	3	0.00	0.00	0.00	--	--	
598C/598	2	0	--	--	3	65.83	31.70	--	--	0	--	--	3	0.00	0.00	--	--	0	--	--	--	3	0.00	0.00	0.00	--	--	
1522C/1522	2	0	--	--	3	59.17	28.37	--	--	0	--	--	3	0.00	0.00	--	--	0	--	--	--	3	0.00	0.00	0.00	--	--	
Habitat Means			--	--		67.50	22.55				--	--		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	88.33	6.51	--	--	0	--	--	3	0.00	0.00	--	--	0	--	--	--	3	0.00	0.00	0.00	--	--	
601C/601	3	0	--	--	2	52.50	45.00	--	--	0	--	--	2	0.00	0.00	--	--	0	--	--	--	2	31.25	31.25	--	--		
598C/598	3	0	--	--	3	26.67	19.22	--	--	0	--	--	3	0.00	0.00	--	--	0	--	--	--	3	0.00	0.00	0.00	--	--	
1522C/1522	3	0	--	--	2	5.00	5.00	--	--	0	--	--	2	0.00	0.00	--	--	0	--	--	--	2	0.00	0.00	0.00	--	--	
Habitat Means			--	--		43.12	18.93				--	--		0.00	0.00				--	--			7.83	7.83				
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-5.324. Page 1. December 15, 1994

Site Pair	Mvd	N	Shell Fragments							Water							Zostera/Phyllospadix											
			C	SE	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	--	--	0	--	--	-	---
453C/453	1	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	-	---
601C/601	1	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	-	---
598C/598	1	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	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	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	---		P-value	---	
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		P-value	---	
4825C/1424	2	0	--	--	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	0.00	-	---	-	---
601C/601	2	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	-	---
598C/598	2	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	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	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	---		P-value	---	
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		P-value	---	
4825C/1424	3	0	--	--	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	0.00	-	---	-	---
601C/601	3	0	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	0.00	0.00	-	---	-	---
598C/598	3	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	0.00	-	---	-	---
1522C/1522	3	0	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	0.00	-	---	0	--	--	2	0.00	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	---		P-value	---	
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		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-5.324. Page 2. December 15, 1994

Table C-5.324. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. August 1993. Cleared August 1989. (Continued.)

Site Pair	Mvd	N	Sand and Mud							Total Substrate																		
			C	SE	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	93.33	6.67	-	---	---	---	---								
601C/601	1	0	--	--	3	0.00	0.00	-	---	0	--	--	3	91.67	5.07	-	---	---	---	---								
598C/598	1	0	--	--	3	0.00	0.00	-	---	0	--	--	3	99.17	0.83	-	---	---	---	---								
1522C/1522	1	0	--	--	3	0.00	0.00	-	---	0	--	--	3	96.67	0.83	-	---	---	---	---								
Habitat Means			--	--		0.00	0.00				--	--		95.23	3.35													
Fisher's	Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---	Power
Stouffer's	Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---	Power
4825C/1424	2	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	---	---	---								
453C/453	2	0	--	--	3	0.00	0.00	-	---	0	--	--	3	77.50	3.82	-	---	---	---	---								
601C/601	2	0	--	--	3	0.00	0.00	-	---	0	--	--	3	67.50	26.26	-	---	---	---	---								
598C/598	2	0	--	--	3	0.00	0.00	-	---	0	--	--	3	65.83	31.70	-	---	---	---	---								
1522C/1522	2	0	--	--	3	0.00	0.00	-	---	0	--	--	3	59.17	28.37	-	---	---	---	---								
Habitat Means			--	--		0.00	0.00				--	--		67.50	22.55													
Fisher's	Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---	Power
Stouffer's	Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---	Power
4825C/1424	3	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	---	---	---								
453C/453	3	0	--	--	3	0.00	0.00	-	---	0	--	--	3	88.33	6.51	-	---	---	---	---								
601C/601	3	0	--	--	2	31.25	31.25	-	---	0	--	--	2	83.75	13.75	-	---	---	---	---								
598C/598	3	0	--	--	3	0.00	0.00	-	---	0	--	--	3	26.67	19.22	-	---	---	---	---								
1522C/1522	3	0	--	--	2	0.00	0.00	-	---	0	--	--	2	5.00	5.00	-	---	---	---	---								
Habitat Means			--	--		7.83	7.83				--	--		50.95	11.13													
Fisher's	Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---	Power
Stouffer's	Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---	Power

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

Table C-5.324. Page 3. December 15, 1994

**Table C-5.325. Algal Percent Cover, Totals and Seasonal Groups, Prince William Sound, Sheltered Rocky, May 1991. Overstory removed May 1990.**  
 Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; I = 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	0.15	0.06	6	0.00	0.00	-	+	0.076	6	1.33	0.33	6	0.50	0.22	-	+	0.065	6	25.83	8.53	6	12.50	7.53	-	-	0.234	
453C/453	1	6	0.09	0.06	6	0.14	0.05	-	-	0.531	6	1.50	0.56	6	1.50	0.34	-	o	1.000	6	15.00	5.92	6	13.75	4.60	-	-	0.972	
601C/601	1	6	0.07	0.07	6	0.00	0.00	-	+	0.363	6	0.83	0.65	6	0.33	0.21	-	+	0.484	6	9.58	6.72	6	1.67	1.05	-	-	0.417	
598C/598	1	6	0.05	0.05	6	0.00	0.00	-	-	0.363	6	0.50	0.34	6	0.00	0.00	-	-	0.203	6	10.42	7.81	6	0.00	0.00	-	+	0.200	
1522C/1522	1	6	0.00	0.00	6	0.12	0.08	-	-	0.210	6	0.33	0.21	6	1.33	0.42	-	-	0.060	6	0.83	0.53	6	21.67	7.98	-	-	0.016	
Habitat Means			0.07	0.05		0.05	0.03		+			0.90	0.42		0.73	0.24		+			12.32	5.88		9.94	4.24		+		
Fisher's	Power		0.099		Power-50%	0.377	P-value		0.164	Power	0.269		Power-50%	0.117	P-value		0.108*		Power	0.162		Power-50%	0.855	P-value		0.198*			
Stouffer's	Power		0.022		Power-50%	0.401	P-value		0.284	Power	0.051		Power-50%	0.188	P-value		0.155		Power	0.017		Power-50%	0.842	P-value		0.194			
4825C/1424	2	5	0.31	0.09	6	0.17	0.06	-	+	0.225	5	3.00	0.71	6	2.17	0.48	-	+	0.341	5	49.00	13.55	6	45.83	15.91	-	+	0.923	
453C/453	2	6	0.17	0.09	6	0.07	0.07	-	-	0.416	6	2.17	0.60	6	1.50	0.72	-	+	0.493	6	43.33	16.13	6	26.67	15.16	-	-	0.483	
601C/601	2	6	0.00	0.00	6	0.07	0.07	-	-	0.363	6	0.83	0.17	6	0.83	0.48	-	o	1.000	6	10.42	4.30	6	12.08	9.30	-	-	0.735	
598C/598	2	6	0.02	0.02	6	0.01	0.01	-	-	0.789	6	0.83	0.31	6	0.83	0.31	-	o	1.000	6	7.50	6.02	6	19.17	10.01	-	-	0.350	
1522C/1522	2	5	0.15	0.11	4	0.38	0.13	-	-	0.202	5	1.60	0.68	4	3.50	0.87	-	-	0.122	5	25.50	14.82	4	68.75	5.82	-	-	0.051	
Habitat Means			0.13	0.06		0.14	0.07		+			1.69	0.49		1.77	0.57		+			27.14	10.96		34.52	11.24		-		
Fisher's	Power		0.103		Power-50%	0.424	P-value		0.442 y	Power	0.196		Power-50%	0.189	P-value		0.510 y		Power	0.171		Power-50%	0.614	P-value		0.147			
Stouffer's	Power		0.022		Power-50%	0.387	P-value		0.370	Power	0.070		Power-50%	0.145	P-value		0.431		Power	0.117		Power-50%	0.581	P-value		0.205			
4825C/1424	3	2	0.72	0.01	6	0.59	0.05	-	+	0.186	2	6.50	0.50	6	6.17	0.60	-	+	0.776	2	86.25	13.75	6	92.50	4.65	-	-	0.693	
453C/453	3	5	0.61	0.04	4	0.00	0.00	-	-	0.000	5	5.60	0.24	4	0.00	0.00	-	+	0.000	5	71.00	14.35	4	0.00	0.00	-	+	0.006	
601C/601	3	4	0.50	0.08	4	0.32	0.09	-	+	0.169	4	4.00	0.71	4	3.00	0.41	-	+	0.267	4	73.75	12.81	4	81.25	13.56	-	-	0.521	
598C/598	3	6	0.42	0.09	6	0.35	0.12	-	-	0.601	6	3.50	0.76	6	3.50	0.85	-	o	1.000	6	46.25	14.94	6	71.67	14.34	-	-	0.210	
1522C/1522	3	5	0.44	0.08	1	0.36	---	-	+	---	5	3.60	0.51	1	4.00	---	-	-	---	5	68.00	11.49	1	95.00	---	-	-	---	
Habitat Means			0.54	0.06		0.32	0.06		-			4.64	0.55		3.33	0.46		+			69.08	13.48		68.10	8.15		-		
Fisher's	Power		---		Power-50%	---	P-value		0.000	Power	---		Power-50%	---	P-value		0.001		Power	0.048		Power-50%	0.998	P-value		0.315xy			
Stouffer's	Power		---		Power-50%	---	P-value		0.001	Power	---		Power-50%	---	P-value		0.008		Power	0.001		Power-50%	0.982	P-value		0.616			

(a) Modified Shannon Index.

(b) Taxa richness calculations are explained in the Methods.

\* At least one site pair p value < 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.326, Page 1, December 15, 1994

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	10.83	8.98	-	-	0.224	6	74.17	8.53	6	76.67	11.36	-	-	0.736	6	21.25	9.05	6	7.92	7.92	-	+	0.136	
453C/453	1	6	5.42	3.56	6	3.33	1.54	-	-	0.892	6	79.58	6.69	6	82.92	4.93	-	-	0.863	6	10.83	5.43	6	9.58	4.44	-	+	0.935	
601C/601	1	6	11.67	5.61	6	3.75	1.55	-	-	0.222	6	78.75	11.61	6	94.17	2.30	-	-	0.209	6	7.08	4.58	6	0.00	0.00	-	+	0.177	
598C/598	1	6	1.25	0.85	6	4.17	2.01	-	-	0.277	6	88.33	7.68	6	95.83	2.01	-	-	0.594	6	7.92	7.92	6	0.00	0.00	-	+	0.363	
1522C/1522	1	6	15.42	10.54	6	20.00	6.61	-	-	0.468	6	83.75	10.34	6	58.33	11.79	-	-	0.140	6	0.83	0.53	6	17.50	7.39	-	-	0.022	
Habitat Means			6.76	4.12		8.42	4.14		-			80.94	8.96		81.58	6.48		-			9.58	5.50		7.00	3.94		-		
Fisher's	Power		0.209		Power-50%	0.417	P-value		0.216	Power	0.122		Power-50%	1.000	P-value		0.376		Power	0.168		Power-50%	0.706	P-value		0.126*			
Stouffer's	Power		0.125		Power-50%	0.634	P-value		0.178	Power	0.043		Power-50%	1.000	P-value		0.296		Power	0.021		Power-50%	0.530	P-value		0.214			
4825C/1424	2	5	4.00	2.57	6	13.33	8.65	-	+	0.584	5	47.00	13.17	6	40.83	16.07	-	+	0.749	5	11.00	6.25	6	15.42	8.25	-	-	0.607	
453C/453	2	6	2.92	1.87	6	0.00	0.00	-	+	0.176	6	53.75	16.64	6	73.33	15.16	-	-	0.416	6	30.42	14.48	6	14.17	4.41	-	-	0.283	
601C/601	2	6	6.67	3.86	6	10.83	1.54	-	-	0.128	6	82.92	4.81	6	77.08	8.02	-	+	0.510	6	4.38	2.27	6	7.92	5.30	-	-	0.775	
598C/598	2	6	16.25	6.12	6	16.67	6.64	-	-	0.895	6	76.25	7.98	6	64.17	11.29	-	+	0.582	6	6.25	5.76	6	18.75	9.63	-	-	0.228	
1522C/1522	2	5	9.50	3.39	4	7.50	3.68	-	+	0.741	5	62.00	12.31	4	23.75	4.27	-	+	0.037	5	14.50	5.56	4	28.75	10.53	-	-	0.209	
Habitat Means			7.88	3.58		9.66	4.10		-			64.40	10.98		55.84	10.98		+			13.36	6.90		17.02	7.62		-		
Fisher's	Power		0.126		Power-50%	0.814	P-value		0.383	Power	0.395		Power-50%	0.953	P-value		0.111		Power	0.209		Power-50%	0.587	P-value		0.200			
Stouffer's	Power		0.050		Power-50%	0.847	P-value		0.601	Power	0.245		Power-50%	0.895	P-value		0.265		Power	0.192		Power-50%	0.678	P-value		0.222			
4825C/1424	3	2	0.00	0.00	6	0.42	0.42	-	-	0.363	2	13.75	13.75	6	7.08	4.54	-	+	0.669	2	8.75	8.75	6	32.92	7.62	-	-	0.083	
453C/453	3	5	2.00	2.00	4	0.00	0.00	-	+	0.374	5	27.00	13.56	4	100.00	0.00	-	-	0.005	5	31.00	12.98	4	0.00	0.00	-	+	0.019	
601C/601	3	4	2.50	2.50	4	14.37	12.76	-	-	0.423	4	23.75	10.48	4	4.37	2.95	-	+	0.088	4	25.63	16.02	4	23.13	10.48	-	+	0.976	
598C/598	3	6	3.33	1.79	6	1.67	0.83	-	+	0.637	6	40.00	16.28	6	26.67	13.58	-	+	0.479	6	10.83	4.68	6	15.42	4.72	-	-	0.421	
1522C/1522	3	5	5.00	1.58	1	0.00	---	-	+	---	5	27.00	10.23	1	5.00	---	-	+	---	5	28.50	5.57	1	20.00	---	-	+	---	
Habitat Means			2.56	1.58		3.30	3.50		-			26.32	12.88		28.64	5.28		-			20.94	9.62		18.28	5.70		+		
Fisher's	Power		0.012		Power-50%	0.108	P-value		0.463	Power	0.209		Power-50%	0.602	P-value		0.185xy		Power	0.174		Power-50%	0.861	P-value		0.183*			
Stouffer's	Power		0.013		Power-50%	0.359	P-value		0.705	Power	0.059		Power-50%	0.611	P-value		0.695		Power	0.099		Power-50%	0.833	P-value		0.346			

(a) Modified Shannon Index.

(b) Taxa richness calculations are explained in the methods.

\* At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.325, Page 1, December 15, 1994

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	10.83	8.98	-	-	0.224	6	74.17	8.53	6	76.67	11.36	-	-	0.736	6	21.25	9.05	6	7.92	7.92	-	+	0.136	
453C/453	1	6	5.42	3.56	6	3.33	1.54	-	-	0.892	6	79.58	6.69	6	82.92	4.93	-	-	0.863	6	10.83	5.43	6	9.58	4.44	-	+	0.935	
601C/601	1	6	11.67	5.61	6	3.75	1.55	-	-	0.222	6	78.75	11.61	6	94.17	2.30	-	-	0.209	6	7.08	4.58	6	0.00	0.00	-	+	0.177	
598C/598	1	6	1.25	0.85	6	4.17	2.01	-	-	0.217	6	88.33	7.68	6	95.83	2.01	-	-	0.594	6	7.92	7.92	6	0.00	0.00	-	+	0.363	
1522C/1522	1	6	15.42	10.54	6	20.00	6.61	-	-	0.468	6	83.75	10.34	6	58.33	11.79	-	-	0.140	6	0.83	0.53	6	17.50	7.39	-	-	0.022	
Habitat Means			6.76	4.12		8.42	4.14		-			80.94	8.96		81.58	6.48		-			9.58	5.50		7.00	3.94		-		
Fisher's			Power	0.209		Power-50%	0.417		P-value	0.216		Power	0.122		Power-50%	1.000		P-value	0.376		Power	0.168		Power-50%	0.706		P-value	0.126*	
Stouffer's			Power	0.125		Power-50%	0.634		P-value	0.178		Power	0.043		Power-50%	1.000		P-value	0.296		Power	0.021		Power-50%	0.530		P-value	0.214	
4825C/1424	2	5	4.00	2.57	6	13.33	8.65	-	-	0.584	5	47.00	13.17	6	40.83	16.07	-	+	0.749	5	11.00	6.25	6	15.42	8.25	-	-	0.607	
453C/453	2	6	2.92	1.87	6	0.00	0.00	-	+	0.176	6	53.75	16.64	6	73.33	15.16	-	-	0.416	6	30.42	14.48	6	14.17	4.41	-	-	0.283	
601C/601	2	6	6.67	3.86	6	10.83	1.54	-	-	0.128	6	82.92	4.81	6	77.08	8.02	-	+	0.510	6	4.58	2.27	6	7.92	5.30	-	-	0.775	
598C/598	2	6	16.25	6.12	6	16.67	6.64	-	-	0.895	6	76.25	7.98	6	64.17	11.29	-	+	0.582	6	6.25	5.76	6	18.75	9.63	-	-	0.228	
1522C/1522	2	5	9.50	3.39	4	7.50	3.68	-	+	0.741	5	62.00	12.31	4	23.75	4.27	-	+	0.037	5	14.50	5.56	4	28.75	10.53	-	-	0.209	
Habitat Means			7.88	3.58		9.66	4.10		-			64.40	10.98		55.84	10.98		+			13.36	6.90		17.02	7.62		-		
Fisher's			Power	0.126		Power-50%	0.814		P-value	0.383		Power	0.395		Power-50%	0.953		P-value	0.111		Power	0.209		Power-50%	0.587		P-value	0.200	
Stouffer's			Power	0.050		Power-50%	0.847		P-value	0.601		Power	0.245		Power-50%	0.895		P-value	0.265		Power	0.192		Power-50%	0.678		P-value	0.222	
4825C/1424	3	2	0.00	0.00	6	0.42	0.42	-	-	0.363	2	13.75	13.75	6	7.08	4.54	-	+	0.669	2	8.75	8.75	6	32.92	7.62	-	-	0.083	
453C/453	3	5	2.00	2.00	4	0.00	0.00	-	-	0.374	5	27.00	13.56	4	100.00	0.00	-	-	0.005	5	31.00	12.98	4	0.00	0.00	-	+	0.019	
601C/601	3	4	2.50	2.50	4	14.37	12.76	-	-	0.423	4	23.75	10.48	4	4.37	2.95	-	+	0.088	4	25.63	16.02	4	23.13	10.48	-	+	0.976	
598C/598	3	6	3.33	1.79	6	1.67	0.83	-	+	0.637	6	40.00	16.28	6	26.67	13.58	-	+	0.479	6	10.83	4.68	6	15.42	4.72	-	-	0.421	
1522C/1522	3	5	5.00	1.58	1	0.00	--	-	-	---	5	27.00	10.23	1	5.00	--	-	+	---	5	28.50	5.57	1	20.00	--	-	+	---	
Habitat Means			2.56	1.58		3.30	3.50		-			26.32	12.88		28.64	5.28		-			20.94	9.62		18.28	5.70		+		
Fisher's			Power	0.012		Power-50%	0.108		P-value	0.463		Power	0.209		Power-50%	0.602		P-value	0.185xy		Power	0.174		Power-50%	0.861		P-value	0.183*	
Stouffer's			Power	0.013		Power-50%	0.359		P-value	0.705		Power	0.059		Power-50%	0.611		P-value	0.695		Power	0.099		Power-50%	0.833		P-value	0.346	

\* At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.325, Page 2, December 15, 1994

Table C-5.325. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. May 1991. Overstory removed May 1990. (Continued.)

Site Pair	Mvd	N	Annuals (A)								Ephemerals (AE)																		
			C	SE	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	4.58	2.92	6	4.58	2.92	-	o	1.000	6	0.00	0.00	6	4.58	2.92	-	-	0.175										
453C/453	1	6	4.17	2.93	6	4.17	1.79	-	o	0.531	6	0.00	0.00	6	2.50	2.04	-	-	0.213										
601C/601	1	6	2.50	2.50	6	1.67	1.05	-	-	0.916	6	2.08	2.08	6	0.00	0.00	-	+	0.363										
598C/598	1	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										
1522C/1522	1	6	0.00	0.00	6	4.17	4.17	-	-	0.363	6	0.00	0.00	6	2.08	2.08	-	-	0.363										
Habitat Means			2.76	2.16		2.94	2.00		+			0.42	0.42		1.84	1.40		-											
Fisher's	Power		0.013		Power-50%	0.268	P-value	0.689	y		Power	0.047		Power-50%	---	P-value	0.149			Power	---		Power-50%	---	P-value				
Stouffer's	Power		0.017		Power-50%	0.384	P-value	0.417			Power	0.057		Power-50%	---	P-value	0.204			Power	---		Power-50%	---	P-value				
4825C/1424	2	5	38.00	12.38	6	30.42	17.37	-	+	0.512	5	36.00	11.58	6	30.00	17.11	-	+	0.538										
453C/453	2	6	12.92	11.93	6	12.50	12.50	-	+	0.844	6	6.25	6.25	6	11.67	11.67	-	-	0.786										
601C/601	2	6	5.83	4.90	6	4.17	4.17	-	+	0.726	6	5.83	4.90	6	4.17	4.17	-	+	0.726										
598C/598	2	6	1.25	0.56	6	0.42	0.42	-	+	0.260	6	0.42	0.42	6	0.42	0.42	-	o	1.000										
1522C/1522	2	5	11.00	9.80	4	40.00	13.88	-	-	0.145	5	10.00	8.80	4	35.00	12.95	-	-	0.160										
Habitat Means			13.80	7.92		17.50	9.68		-			11.70	6.40		16.26	9.28		-											
Fisher's	Power		0.095		Power-50%	0.632	P-value	0.380	y		Power	0.057		Power-50%	0.502	P-value	0.456			Power	---		Power-50%	---	P-value				
Stouffer's	Power		0.055		Power-50%	0.556	P-value	0.198			Power	0.072		Power-50%	0.328	P-value	0.394			Power	---		Power-50%	---	P-value				
4825C/1424	3	2	77.50	22.50	6	59.58	8.43	-	+	0.240	2	61.25	18.75	6	38.33	7.35	-	-	0.197										
453C/453	3	5	40.00	10.37	4	0.00	0.00	-	+	0.004	5	23.00	9.95	4	0.00	0.00	-	-	0.038										
601C/601	3	4	48.13	14.23	4	58.13	20.06	-	-	0.757	4	39.38	9.09	4	53.13	19.16	-	-	0.628										
598C/598	3	6	35.42	11.57	6	56.25	13.98	-	-	0.339	6	30.00	11.11	6	49.58	13.05	-	-	0.329										
1522C/1522	3	5	39.50	13.29	1	75.00	--	-	-	---	5	31.00	13.73	1	75.00	--	-	-	---										
Habitat Means			48.10	14.40		49.80	10.63		+			36.94	12.54		43.20	9.93		+											
Fisher's	Power		---		Power-50%	---	P-value	0.020	y		Power	---		Power-50%	---	P-value	0.091	y		Power	---		Power-50%	---	P-value				
Stouffer's	Power		0.232		Power-50%	0.877	P-value	0.182			Power	0.165		Power-50%	0.561	P-value	0.338			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-5.326. Algal Percent Cover. Chlorophyta. Prince William Sound. Sheltered Rocky. May 1991. Overstory removed 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	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				
453C/453	1	6	0.00	0.00	6	2.50	2.04	-	-	0.213	6	0.00	0.00	6	2.50	2.04	-	-	0.213	6	0.00	0.00	6	2.50	2.04	-	-	0.213				
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	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				
Habitat Means			0.34	0.34		1.34	1.24	-				0.34	0.34		0.92	0.82	-				0.34	0.34		0.92	0.82	-						
Fisher's			Power	0.005		Power-50%	---	P-value	0.219		Power	0.000		Power-50%	---	P-value	0.352		Power	0.000		Power-50%	---	P-value	0.352		Power	0.000				
Stouffer's			Power	0.014		Power-50%	---	P-value	0.222		Power	0.000		Power-50%	---	P-value	0.261		Power	0.001		Power-50%	---	P-value	0.261		Power	0.001				
4825C/1424	2	5	9.00	5.04	6	2.92	2.45	-	-	0.281	5	7.00	5.33	6	2.92	2.45	-	+	0.569	5	7.00	5.33	6	2.92	2.45	-	+	0.569				
453C/453	2	6	6.25	6.25	6	11.67	11.67	-	-	0.786	6	5.42	5.42	6	11.25	11.25	-	-	0.760	6	5.42	5.42	6	11.25	11.25	-	-	0.760				
601C/601	2	6	0.83	0.83	6	1.25	1.25	-	-	0.887	6	0.83	0.83	6	0.00	0.00	-	+	0.363	6	0.83	0.83	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	5	5.50	4.36	4	14.38	7.10	-	-	0.297	5	5.50	4.36	4	14.38	7.10	-	-	0.297	5	5.50	4.36	4	14.38	7.10	-	-	0.297				
Habitat Means			4.32	3.30		6.06	4.52	-				3.74	3.18		5.72	4.18	-				3.74	3.18		5.72	4.18	-						
Fisher's			Power	0.019		Power-50%	0.169	P-value	0.532		Power	0.013		Power-50%	0.108	P-value	0.609		Power	0.012		Power-50%	0.117	P-value	0.609		Power	0.012				
Stouffer's			Power	0.027		Power-50%	0.002	P-value	0.404		Power	0.009		Power-50%	0.006	P-value	0.465		Power	0.006		Power-50%	0.006	P-value	0.465		Power	0.006				
4825C/1424	3	2	51.25	11.25	6	29.17	7.95	-	-	0.217	2	22.50	2.50	6	24.17	7.92	-	-	0.979	2	22.50	2.50	6	24.17	7.92	-	-	0.979				
453C/453	3	5	22.00	9.89	4	0.00	0.00	-	+	0.040	5	21.50	9.89	4	0.00	0.00	-	+	0.041	5	21.50	9.89	4	0.00	0.00	-	+	0.041				
601C/601	3	4	19.37	10.67	4	44.37	21.15	-	-	0.326	4	5.63	4.83	4	44.37	21.15	-	-	0.098	4	5.63	4.83	4	44.37	21.15	-	-	0.098				
598C/598	3	6	15.00	7.56	6	27.92	15.19	-	-	0.517	6	14.17	7.82	6	27.92	15.19	-	-	0.440	6	14.17	7.82	6	27.92	15.19	-	-	0.440				
1522C/1522	3	5	23.50	11.47	1	70.00	--	-	---	---	5	21.50	11.74	1	70.00	--	-	---	---	5	21.50	11.74	1	70.00	--	-	---	---				
Habitat Means			26.24	10.20		34.30	11.10	-	+			17.06	7.34		33.30	11.08	-				17.06	7.34		33.30	11.08	-						
Fisher's			Power	0.226		Power-50%	0.439	P-value	0.105 y		Power	0.105		Power-50%	0.444	P-value	0.230 x		Power	0.111		Power-50%	0.457	P-value	0.230 x		Power	0.111				
Stouffer's			Power	0.112		Power-50%	0.419	P-value	0.295		Power	0.019		Power-50%	0.468	P-value	0.540		Power	0.017		Power-50%	0.486	P-value	0.540		Power	0.017				

(a) Kormannia, Monostroma, Ulva and Ulvaria.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.326. Page 1. December 15, 1994

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	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	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	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	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	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	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	Power	---		Power-50%	---	P-value		0.500
Stouffer's	Power		---		Power-50%	---	P-value		0.450	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	0.00	-	o	1.000				
453C/453	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	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	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	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	0.00	-	o	1.000				
Habitat Means			0.16	0.16		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		0.693	Power	---		Power-50%	---	P-value		0.732	Power	---		Power-50%	---	P-value		0.732	Power	---		Power-50%	---	P-value		0.500
Stouffer's	Power		---		Power-50%	---	P-value		0.450	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.500
4825C/1424	3	2	23.75	8.75	6	5.00	2.04	-	+	0.030	2	0.00	0.00	6	0.00	0.00	-	o	1.000	2	0.00	0.00	6	2.08	1.64	-	+	0.204					
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	0.00	0.00	4	0.00	0.00	-	o	1.000					
601C/601	3	4	12.50	10.16	4	0.00	0.00	-	+	0.237	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					
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	2.00	1.46	1	0.00	--	-	+	---	5	0.00	0.00	1	0.00	--	-	o	---	5	0.50	0.50	1	0.00	--	-	+	---					
Habitat Means			7.92	4.36		1.00	0.50	-				0.00	0.00		0.00	0.00	-	o			0.10	0.10		0.42	0.40	-							
Fisher's	Power		---		Power-50%	---	P-value		0.013	Power	---		Power-50%	---	P-value		0.698	Power	0.001		Power-50%	---	P-value		0.366	Power	0.000		Power-50%	---	P-value		0.429
Stouffer's	Power		---		Power-50%	---	P-value		0.037	Power	---		Power-50%	---	P-value		0.500	Power	0.000		Power-50%	---	P-value		0.429	Power	0.000		Power-50%	---	P-value		0.429

Table C-5.326. Algal Percent Cover. Chlorophyta. Prince William Sound. Sheltered Rocky. May 1991. Overstory removed May 1990. (Continued.)

Cladophora sp. (AE)											Ullothrix 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	0.00	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				
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			o			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	0.450							
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	0.83	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				
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			0.16	0.16		0.08	0.08	-				0.00	0.00		0.00			o			0.00	0.00		0.00	0.00	-						
Fisher's	Power		---		Power-50%		---	P-value	0.693	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	2	23.75	8.75	6	2.92	1.98	-	+	0.017	2	0.00	0.00	6	0.00	0.00	-	o	1.000	2	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	0.00	0.00	4	0.00	0.00	-	o	1.000				
601C/601	3	4	12.50	10.16	4	0.00	0.00	-	+	0.237	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				
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	1.50	1.50	1	0.00	--	-	+	---	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---				
Habitat Means			7.82	4.36		0.58	0.50	-	+			0.00	0.00		0.00			o			0.00	0.00		0.00	0.00	-						
Fisher's	Power		---		Power-50%		---	P-value	0.008	Power	---		Power-50%		---	P-value	0.698	Power	---		Power-50%		---	P-value	0.698							
Stouffer's	Power		---		Power-50%		---	P-value	0.034	Power	---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value	0.500							

\* At least one site pair p-value < 0.100 in 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	
453C/453	4	6	0.00	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			o			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	2.00	2.00	6	0.00	0.00	-	+	0.374	5	2.00	2.00	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	1.25	1.25	-	o	0.363	6	0.00	0.00	6	1.25	1.25	-	o	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	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	0.40		0.26	0.26	-				0.40	0.40		0.26			-											
Fisher's	Power		---		Power-50%		---	P-value	0.630 y	Power	---		Power-50%		---	P-value	0.630 y	Power	---		Power-50%		---	P-value					
Stouffer's	Power		---		Power-50%		---	P-value	0.465	Power	---		Power-50%		---	P-value	0.465	Power	---		Power-50%		---	P-value					
4825C/1424	3	2	5.00	5.00	6	0.00	0.00	-	+	0.500	2	5.00	5.00	6	0.00	0.00	-	+	0.500										
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	1.25	1.25	4	0.00	0.00	-	+	0.391	4	1.25	1.25	4	0.00	0.00	-	+	0.391										
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			1.26	1.26		0.00	0.00	-	+			1.26	1.26		0.00			-	+										
Fisher's	Power		---		Power-50%		---	P-value	0.359	Power	---		Power-50%		---	P-value	0.359	Power	---		Power-50%		---	P-value					
Stouffer's	Power		---		Power-50%		---	P-value	0.383	Power	---		Power-50%		---	P-value	0.383	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: 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				
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	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	2.00	2.00	6	0.00	0.00	-	+	0.374	5	2.00	2.00	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	1.25	1.25	-	-	0.363	6	0.00	0.00	6	1.25	1.25	-	-	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	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	0.40		0.26	0.26	-				0.40	0.40		0.26	0.26	-															
Fisher's	Power		---		Power-50%		---	P-value	0.630 y	Power	---		Power-50%		---	P-value	0.630 y	Power	---		Power-50%		---	P-value	0.630 y							
Stouffer's	Power		---		Power-50%		---	P-value	0.465	Power	---		Power-50%		---	P-value	0.465	Power	---		Power-50%		---	P-value	0.465							
4825C/1424	3	2	5.00	5.00	6	0.00	0.00	-	+	0.500	2	5.00	5.00	6	0.00	0.00	-	+	0.500													
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	1.25	1.25	4	0.00	0.00	-	+	0.391	4	1.25	1.25	4	0.00	0.00	-	+	0.391													
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			1.26	1.26		0.00	0.00	-	+			1.26	1.26		0.00	0.00	-	+														
Fisher's	Power		---		Power-50%		---	P-value	0.359	Power	---		Power-50%		---	P-value	0.359	Power	---		Power-50%		---	P-value	0.359							
Stouffer's	Power		---		Power-50%		---	P-value	0.383	Power	---		Power-50%		---	P-value	0.383	Power	---		Power-50%		---	P-value	0.383							

(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-5.327. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. May 1991. Overstory removed 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 <i>Fucus gardneri</i> (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	18.75	8.18	6	7.92	7.92	-	+	0.156	6	18.75	8.18	6	7.92	7.92	-	+	0.156	6	18.75	8.18	6	7.92	7.92	-	+	0.156				
453C/453	1	6	11.25	5.27	6	10.00	5.28	-	+	0.704	6	10.42	5.14	6	9.17	4.59	-	+	0.819	6	10.42	5.14	6	9.17	4.59	-	+	0.819				
601C/601	1	6	7.92	5.26	6	0.00	0.00	-	+	0.180	6	7.08	4.58	6	0.00	0.00	-	+	0.177	6	7.08	4.58	6	0.00	0.00	-	+	0.177				
598C/598	1	6	8.75	7.79	6	0.00	0.00	-	+	0.245	6	7.92	7.92	6	0.00	0.00	-	+	0.363	6	7.92	7.92	6	0.00	0.00	-	+	0.363				
1522C/1522	1	6	0.83	0.53	6	17.92	7.89	-	-	0.034	6	0.83	0.53	6	15.83	7.79	-	-	0.043	6	0.83	0.53	6	15.83	7.79	-	-	0.043				
Habitat Means			9.52	5.42		7.16	4.22		-			9.00	5.26		6.58	4.06		+			9.00	5.26		6.58	4.06		+					
Fisher's	Power		---		Power-50%	---		P-value	0.093x		Power	0.165		Power-50%	0.733		P-value	0.125x		Power	0.161		Power-50%	0.719		P-value	0.125x					
Stouffer's	Power		0.052		Power-50%	0.733		P-value	0.121		Power	0.025		Power-50%	0.572		P-value	0.180		Power	0.020		Power-50%	0.517		P-value	0.180					
4825C/1424	2	5	37.00	13.29	6	39.27	15.84	-	-	0.970	5	9.50	5.02	6	13.33	8.41	-	-	0.667	5	9.50	5.02	6	13.33	8.41	-	-	0.667				
453C/453	2	6	35.00	14.24	6	9.58	4.25	-	+	0.097	6	28.75	14.62	6	9.58	4.25	-	+	0.182	6	28.75	14.62	6	9.58	4.25	-	+	0.182				
601C/601	2	6	9.58	4.58	6	10.83	8.08	-	-	0.850	6	4.58	2.27	6	7.92	5.30	-	-	0.775	6	4.58	2.27	6	7.92	5.30	-	-	0.775				
598C/598	2	6	6.67	6.18	6	19.17	10.01	-	-	0.241	6	6.25	5.76	6	18.75	9.63	-	-	0.228	6	6.25	5.76	6	18.75	9.63	-	-	0.228				
1522C/1522	2	5	20.00	10.52	4	50.63	10.82	-	-	0.078	5	14.50	5.56	4	25.63	12.01	-	-	0.376	5	14.50	5.56	4	25.63	12.01	-	-	0.376				
Habitat Means			21.66	9.76		25.90	9.80		-			12.74	6.66		15.04	7.92		-			12.74	6.66		15.04	7.92		-					
Fisher's	Power		0.119		Power-50%	0.594		P-value	0.174x		Power	0.120		Power-50%	0.664		P-value	0.287		Power	0.127		Power-50%	0.648		P-value	0.287					
Stouffer's	Power		0.064		Power-50%	0.678		P-value	0.328		Power	0.096		Power-50%	0.751		P-value	0.296		Power	0.105		Power-50%	0.741		P-value	0.296					
4825C/1424	3	2	22.50	5.00	6	43.75	8.84	-	-	0.253	2	8.75	8.75	6	31.67	7.82	-	-	0.096	2	8.75	8.75	6	31.67	7.82	-	-	0.096				
453C/453	3	5	28.00	12.71	4	0.00	0.00	-	+	0.024	5	21.00	11.58	4	0.00	0.00	-	+	0.059	5	21.00	11.58	4	0.00	0.00	-	+	0.059				
601C/601	3	4	37.50	8.10	4	31.25	15.89	-	-	0.686	4	12.50	6.61	4	18.75	8.93	-	-	0.532	4	12.50	6.61	4	18.75	8.93	-	-	0.532				
598C/598	3	6	28.33	8.72	6	36.67	11.95	-	-	0.718	6	9.58	4.81	6	13.75	4.60	-	-	0.553	6	9.58	4.81	6	13.75	4.60	-	-	0.553				
1522C/1522	3	5	38.00	5.15	1	20.00	---	-	-	---	5	24.50	2.00	1	15.00	---	-	-	---	5	24.50	2.00	1	15.00	---	-	-	---				
Habitat Means			30.86	7.94		26.36	9.18		+			15.28	6.76		15.86	5.33		-			15.28	6.76		15.86	5.33		-					
Fisher's	Power		0.444		Power-50%	0.968		P-value	0.146		Power	0.221		Power-50%	0.491		P-value	0.182x		Power	0.222		Power-50%	0.514		P-value	0.182x					
Stouffer's	Power		0.360		Power-50%	0.937		P-value	0.193		Power	0.034		Power-50%	0.527		P-value	0.568		Power	0.033		Power-50%	0.523		P-value	0.568					

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

Table C-5.327, Page 1, December 15, 1994

Adult <i>Fucus gardneri</i> (P) (> 2cm)											Juvenile <i>Fucus gardneri</i> (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	17.08	8.12	6	4.58	4.58	~	-	0.103	6	1.67	0.83	6	3.33	3.33	-	-	0.883	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000			
453C/453	1	6	8.75	4.91	6	6.25	3.64	~	-	0.808	6	1.67	0.83	6	2.92	1.36	-	-	0.663	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000			
601C/601	1	6	5.42	3.44	6	0.00	0.00	~	-	0.175	6	1.67	1.67	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000			
598C/598	1	6	7.92	7.92	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	0.00	-	o	1.000			
1522C/1522	1	6	0.00	0.00	6	12.08	6.50	~	-	0.045	6	0.83	0.53	6	3.75	2.39	-	-	0.461	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000			
Habitat Means			7.84	4.86		4.60	2.94		+			1.18	0.76		2.00	1.42		-			0.00	0.00		0.00	0.00		o					
Fisher's	Power		---		Power-50%	---		P-value	0.098x		Power	0.075		Power-50%	0.607		P-value	0.574		Power	---		Power-50%	---		P-value	0.732					
Stouffer's	Power		0.029		Power-50%	0.397		P-value	0.169		Power	0.055		Power-50%	0.225		P-value	0.423		Power	---		Power-50%	---		P-value	0.500					
4825C/1424	2	5	0.00	0.00	6	10.42	7.05	~	-	0.082	5	9.50	5.02	6	2.92	1.64	-	+	0.333	5	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000			
453C/453	2	6	28.75	14.62	6	9.58	4.25	-	+	0.182	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000			
601C/601	2	6	2.50	1.71	6	7.50	5.24	~	-	0.456	6	2.08	2.08	6	0.42	0.42	-	+	0.619	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000			
598C/598	2	6	5.83	5.83	6	13.33	9.99	~	-	0.434	6	0.42	0.42	6	5.42	3.44	-	-	0.250	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000			
1522C/1522	2	5	12.00	6.09	4	19.38	13.93	~	-	0.696	5	2.50	1.37	4	6.25	5.45	-	-	0.720	5	3.00	3.00	4	0.00	0.00	0.00	-	-	0.374			
Habitat Means			9.82	5.64		12.04	8.10		-			2.90	1.78		3.00	2.18		-			0.60	0.60		0.00	0.00		+					
Fisher's	Power		0.208		Power-50%	0.527		P-value	0.143		Power	0.016		Power-50%	0.219		P-value	0.561		Power	---		Power-50%	---		P-value	0.542					
Stouffer's	Power		0.132		Power-50%	0.565		P-value	0.347		Power	0.024		Power-50%	0.066		P-value	0.236		Power	---		Power-50%	---		P-value	0.427					
4825C/1424	3	2	8.75	8.75	6	31.67	7.82	~	-	0.096	2	0.00	0.00	6	0.00	0.00	-	o	1.000	2	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000			
453C/453	3	5	21.00	11.58	4	0.00	0.00	~	+	0.059	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000			
601C/601	3	4	8.75	7.11	4	17.50	9.63	~	-	0.528	4	3.75	2.98	4	1.25	1.25	-	-	0.500	4	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000			
598C/598	3	6	9.58	4.81	6	10.83	3.80	~	-	0.778	6	0.00	0.00	6	2.92	1.36	-	-	0.078	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000			
1522C/1522	3	5	17.00	3.98	1	15.00	---	~	-	---	5	7.50	3.35	1	0.00	---	-	+	---	5	0.00	0.00	1	0.00	---	-	o	---				
Habitat Means			13.04	7.26		15.00	5.30		-			2.26	1.28		0.84	0.68		-			0.00	0.00		0.00	0.00		o					
Fisher's	Power		0.191		Power-50%	0.370		P-value	0.220x		Power	0.011		Power-50%	0.002		P-value	0.276 y		Power	---		Power-50%	---		P-value	0.698					
Stouffer's	Power		0.030		Power-50%	0.379		P-value	0.662		Power	0.016		Power-50%	0.000		P-value	0.107		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-5.327, Page 2, December 15, 1994

Table C-5.327. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. May 1991. Overstory removed May 1990. (Continued.)

Petalonia/juncaria (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	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.83	0.53	6	0.83	0.83	-	o	0.767	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	5	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	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	5	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	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	5	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	0.00	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.40	0.34		0.58	0.58		+			0.00	0.00		0.00	0.00	0.00		o	
Fisher's	Power		---		Power-50%	---	P-value	0.732		Power	0.023		Power-50%	0.078	P-value	0.478	y		Power	---		Power-50%	---	P-value	0.732				
Stouffer's	Power		---		Power-50%	---	P-value	0.500		Power	0.049		Power-50%	0.336	P-value	0.284			Power	---		Power-50%	---	P-value	0.500				
4825C/1424	2	5	0.00	0.00	5	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	0.00	-	o	1.000
453C/453	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	6.25	5.76	6	0.00	0.00	-	+	0.258	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	+	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	+	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
1522C/1522	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	1.00	1.00	4	4.38	2.58	-	-	0.292	5	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			1.66	1.56		0.96	0.60		+			0.00	0.00		0.00	0.00	0.00		o	
Fisher's	Power		---		Power-50%	---	P-value	0.732		Power	0.002		Power-50%	0.001	P-value	0.511			Power	---		Power-50%	---	P-value	0.732				
Stouffer's	Power		---		Power-50%	---	P-value	0.500		Power	0.003		Power-50%	0.000	P-value	0.333			Power	---		Power-50%	---	P-value	0.500				
4825C/1424	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	3.75	3.75	6	2.92	2.45	-	+	0.750	2	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
453C/453	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	6.00	3.02	4	0.00	0.00	-	+	0.040	5	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000
601C/601	3	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	5.00	5.00	4	3.75	3.75	-	+	0.918	4	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000
598C/598	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	3.75	1.80	6	1.25	1.25	-	+	0.269	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
1522C/1522	3	5	0.00	0.00	1	0.00	---	-	o	---	5	5.50	3.20	1	0.00	---	-	+	---	5	0.00	0.00	1	0.00	---	-	o	---	
Habitat Means			0.00	0.00		0.00	0.00		o			4.82	3.36		1.60	1.90		+			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	0.053			Power	---		Power-50%	---	P-value	0.698				
Stouffer's	Power		---		Power-50%	---	P-value	0.500		Power	---		Power-50%	---	P-value	0.020			Power	---		Power-50%	---	P-value	0.500				

(b) Genera not separated.

x At least one site pair p-value < 0.105 in opposite direction of overall tests.  
y Direction of difference between habitat means is different than direction of overall tests.  
z Only one site pair.

Table C-5.327. Page 4. December 15, 1994

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	6	0.00	0.00	-	o	1.000	6	0.00	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	0.53	6	0.83	0.83	-	o	0.767	6	0.00	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	0.42	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	
598C/598	1	6	0.83	0.83	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	+	1.000	6	0.00	0.00	6	0.00	0.00	-	+	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			0.40	0.34		0.58	0.58		-			0.08	0.08		0.00	0.00		-			0.08	0.08		0.00	0.00		-		
Fisher's	Power		0.030		Power-50%	0.064	P-value	0.478	y		Power	---		Power-50%	---	P-value	0.536			Power	---		Power-50%	---	P-value	0.536			
Stouffer's	Power		0.053		Power-50%	0.236	P-value	0.284			Power	---		Power-50%	---	P-value	0.417			Power	---		Power-50%	---	P-value	0.417			
4825C/1424	2	5	1.00	1.00	6	0.42	0.42	-	+	0.719	5	26.50	11.69	6	25.52	15.77	-	+	0.669	5	26.50	11.69	6	25.52	15.77	-	+	0.669	
453C/453	2	6	6.25	5.76	6	0.00	0.00	-	+	0.258	6	0.00	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	5.00	5.00	6	2.92	2.92	-	+	0.842	6	5.00	5.00	6	2.92	2.92	-	+	0.842	
598C/598	2	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	0.42	0.42	6	0.42	0.42	-	o	1.000	
1522C/1522	2	5	1.00	1.00	4	4.38	2.58	-	-	0.292	5	4.50	4.50	4	20.62	11.24	-	-	0.185	5	4.50	4.50	4	20.62	11.24	-	-	0.185	
Habitat Means			1.66	1.56		0.96	0.60		+			7.28	4.32		9.88	6.06		+			7.28	4.32		9.88	6.06		-		
Fisher's	Power		0.001		Power-50%	0.000	P-value	0.511			Power	0.009		Power-50%	0.159	P-value	0.736	y		Power	0.010		Power-50%	0.174	P-value	0.736	y		
Stouffer's	Power		0.002		Power-50%	0.054	P-value	0.333			Power	0.008		Power-50%	0.000	P-value	0.568			Power	0.009		Power-50%	0.000	P-value	0.568			
4825C/1424	3	2	3.75	3.75	6	2.50	2.50	-	+	0.618	2	10.00	7.50	6	9.17	3.27	-	+	0.793	2	10.00	7.50	6	9.17	3.27	-	+	0.793	
453C/453	3	5	6.00	3.02	4	0.00	0.00	-	+	0.040	5	1.00	1.00	4	0.00	0.00	-	+	0.374	5	1.00	1.00	4	0.00	0.00	-	+	0.374	
601C/601	3	4	5.00	5.00	4	3.75	3.75	-	+	0.918	4	20.00	3.39	4	8.75	8.75	-	+	0.119	4	20.00	3.39	4	8.75	8.75	-	+	0.119	
598C/598	3	6	3.75	1.80	6	1.25	1.25	-	+	0.269	6	15.00	6.09	6	21.67	7.84	-	+	0.712	6	15.00	6.09	6	21.67	7.84	-	+	0.712	
1522C/1522	3	5	5.50	3.20	1	0.00	--	-	+	---	5	8.00	5.15	1	5.00	--	-	+	---	5	8.00	5.15	1	5.00	--	-	+	---	
Habitat Means			4.82	3.36		1.52	1.90		+			10.80	4.64		8.94	4.98		+			10.80	4.64		8.94	4.98		+		
Fisher's	Power		---		Power-50%	---	P-value	0.046			Power	0.105		Power-50%	0.706	P-value	0.163			Power	0.098		Power-50%	0.727	P-value	0.163			
Stouffer's	Power		---		Power-50%	---	P-value	0.018			Power	0.082		Power-50%	0.395	P-value	0.276			Power	0.082		Power-50%	0.414	P-value	0.276			

(a) Genera not separated.

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

Table C-5.327. Page 4. December 15, 1994

Table C-5.327. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. May 1991. Overstory removed May 1990. (Continued.)

Morphological Group: Saccate Browns											Leathesia/Colpomenia (A) (a)								Soranthera ulvoides (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	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	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	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	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	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	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	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	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	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	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	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	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	2	0.00	0.00	6	0.00	0.00	-	o	1.000	2	0.00	0.00	6	0.00	0.00	-	o	1.000	2	0.00	0.00	6	0.00	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	0.00	-	o	1.000	
601C/601	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	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	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.

Table C-5.327. Page 5. December 15, 1994

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	5	0.00	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	2	0.00	0.00	6	0.00	0.00	-	o	1.000	2	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	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	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-5.327. Page 6. December 15, 1994

Table C-5.328. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. May 1991. Overstory removed 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. (AB)										
Site Pair	Mvd	N	C	SE	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	7.08	3.19	6	2.50	2.50	-	+	0.272	6	0.00	0.00	6	2.50	2.50	-	-	0.363	6	0.00	0.00	6	2.50	2.50	-	-	0.363				
453C/453	1	6	3.75	2.56	6	1.25	0.85	-	+	0.576	6	0.00	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	1.67	1.05	-	-	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				
598C/598	1	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				
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			2.52	1.50		1.44	1.24		+			0.00	0.00		0.50	0.50		-			0.00	0.00		0.50	0.50		-					
Fisher's	Power		0.074		Power-50%		0.248		P-value	0.400	Power	---		Power-50%		---		P-value	0.536	Power	---		Power-50%		---		P-value	0.536				
Stouffer's	Power		0.009		Power-50%		0.411		P-value	0.257	Power	---		Power-50%		---		P-value	0.450	Power	---		Power-50%		---		P-value	0.450				
4825C/1424	2	5	3.00	1.84	6	3.65	2.34	-	-	0.991	5	1.50	1.50	6	1.57	1.57	-	-	0.964	5	0.50	0.50	6	1.57	1.57	-	-	0.964				
453C/453	2	6	2.08	1.00	6	5.42	3.44	-	-	0.720	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	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	0.83	0.53	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				
1522C/1522	2	5	0.00	0.00	4	3.75	2.98	-	-	0.227	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			1.18	0.66		2.58	1.74		-			0.30	0.30		0.48	0.48		-			0.10	0.10		0.32	0.32		-					
Fisher's	Power		0.041		Power-50%		0.422		P-value	0.497	Power	---		Power-50%		---		P-value	0.529	Power	---		Power-50%		---		P-value	0.680				
Stouffer's	Power		0.014		Power-50%		0.570		P-value	0.729	Power	---		Power-50%		---		P-value	0.313	Power	---		Power-50%		---		P-value	0.483				
4825C/1424	3	2	12.50	7.50	6	19.58	8.15	-	-	0.739	2	0.00	0.00	6	11.67	7.15	-	-	0.053	2	0.00	0.00	6	2.08	2.08	-	-	0.363				
453C/453	3	5	21.00	3.32	4	0.00	0.00	-	+	0.000	5	3.50	2.45	4	0.00	0.00	-	+	0.193	5	0.00	0.00	4	0.00	0.00	-	o	1.000				
601C/601	3	4	16.88	10.38	4	5.62	4.23	-	+	0.517	4	3.75	3.75	4	0.00	0.00	-	+	0.391	4	0.00	0.00	4	0.00	0.00	-	o	1.000				
598C/598	3	6	2.92	1.64	6	7.08	5.14	-	-	0.507	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				
1522C/1522	3	5	6.50	3.84	1	5.00	---	-	+	---	5	0.00	0.00	1	0.00	---	-	o	---	5	0.00	0.00	1	0.00	---	-	o	---				
Habitat Means			11.96	5.32		7.46	4.35		+			1.54	1.34		2.50	1.92		-			0.00	0.00		0.42	0.52		-					
Fisher's	Power		---		Power-50%		---		P-value	0.005	Power	0.117		Power-50%		0.063		P-value	0.232	Power	---		Power-50%		---		P-value	0.477				
Stouffer's	Power		---		Power-50%		---		P-value	0.062	Power	0.004		Power-50%		0.233		P-value	0.563	Power	---		Power-50%		---		P-value	0.449				

x At least one site pair p-value < 0.100 in 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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Gigartinales 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			o			0.00	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	0.83	0.83	-	-	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	0.00	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			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	0.536	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	3	2	0.00	0.00	6	0.00	0.00	-	o	1.000	2	0.00	0.00	6	9.17	6.70	-	-	0.065	2	0.00	0.00	6	0.42	0.42	-	-	0.363	
453C/453	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	1.50	1.50	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	4	0.00	0.00	-	o	1.000	4	3.75	3.75	4	0.00	0.00	-	-	0.391	4	0.00	0.00	4	0.00	0.00	-	-	1.000	
598C/598	3	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	-	-	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			o			1.14	1.14		1.92	1.78		+			0.10	0.10		0.08	0.10		-		
Fisher's	Power		---		Power-50%		---		P-value	0.698	Power	---		Power-50%		---		P-value	0.427xy	Power	---		Power-50%		---		P-value	0.581 y	
Stouffer's	Power		---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.336	Power	---		Power-50%		---		P-value	0.638	

Table C-5.328. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. May 1991. Overstory removed 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	0.00	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
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			0.20	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		---		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	0.451	Power		---		Power-50%		---	P-value	0.500	Power		---		Power-50%		---	P-value	0.500	
4825C/1424	3	2	0.00	0.00	6	0.00	0.00	-	o	1.000	2	0.00	0.00	6	0.00	0.00	-	o	1.000	2	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	5	1.00	1.00	4	0.00	0.00	-	+	0.374	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	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
598C/598	3	6	0.00	0.00	6	0.42	0.42	-	o	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	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.20	0.20		0.08	0.10		-			0.10	0.10		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value	0.581 y	Power		---		Power-50%		---	P-value	0.483	Power		---		Power-50%		---	P-value	0.698	
Stouffer's	Power		---		Power-50%		---	P-value	0.405	Power		---		Power-50%		---	P-value	0.315	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-5.328, Page 3, December 15, 1994

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	4.58	2.92	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	0.00	-	o	1.000			
453C/453	1	6	3.33	2.47	6	0.83	0.53	-	+	0.523	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000		
601C/601	1	6	0.00	0.00	6	1.67	1.05	-	-	0.175	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000		
598C/598	1	6	1.67	1.67	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	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	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000		
Habitat Means			1.92	1.42		0.84	0.66		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		0.00		o			
Fisher's	Power		0.047		Power-50%	0.110	P-value	0.317			Power	---		Power-50%	---	P-value	0.732			Power	---		Power-50%	---	P-value	0.732						
Stouffer's	Power		0.009		Power-50%	0.341	P-value	0.233			Power	---		Power-50%	---	P-value	0.500			Power	---		Power-50%	---	P-value	0.500						
4825C/1424	2	5	1.50	1.50	6	2.08	2.08	-	-	0.956	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000			
453C/453	2	6	2.08	1.00	6	4.58	2.92	-	-	0.794	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	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	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000		
598C/598	2	6	0.83	0.53	6	0.00	0.00	-	+	0.175	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000		
1522C/1522	2	5	0.00	0.00	4	3.75	2.98	-	-	0.227	5	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000		
Habitat Means			0.88	0.60		2.10	1.60		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		0.00		o			
Fisher's	Power		0.022		Power-50%	0.233	P-value	0.509			Power	---		Power-50%	---	P-value	0.732			Power	---		Power-50%	---	P-value	0.732						
Stouffer's	Power		0.009		Power-50%	0.487	P-value	0.744			Power	---		Power-50%	---	P-value	0.500			Power	---		Power-50%	---	P-value	0.500						
4825C/1424	3	2	0.00	0.00	6	2.08	1.64	-	-	0.204	2	0.00	0.00	6	0.00	0.00	-	o	1.000	2	0.00	0.00	6	0.42	0.42	-	-	0.363				
453C/453	3	5	10.50	3.57	4	0.00	0.00	-	-	0.024	5	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000			
601C/601	3	4	13.13	10.07	4	4.37	4.37	-	-	0.482	4	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000			
598C/598	3	6	1.25	0.85	6	5.83	4.86	-	-	0.415	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000	6	0.00	0.00	6	4.17	4.17	-	-	0.363			
1522C/1522	3	5	6.00	4.00	1	5.00	--	-	+	---	5	0.00	0.00	1	0.00	--	-	o	---	5	2.00	2.00	1	0.00	--	-	+	---				
Habitat Means			6.18	3.72		3.46	2.73		+			0.00	0.00		0.00	0.00		o			0.40	0.40		0.92	1.15		-					
Fisher's	Power		0.073		Power-50%	0.306	P-value	0.137			Power	---		Power-50%	---	P-value	0.698			Power	---		Power-50%	---	P-value	0.295						
Stouffer's	Power		0.052		Power-50%	0.421	P-value	0.288			Power	---		Power-50%	---	P-value	0.500			Power	---		Power-50%	---	P-value	0.198						

Table C-5.328. Algal Percent Cover. Rhodophyta, Prince William Sound, Sheltered Rocky, May 1991. Overstory removed May 1990. (Continued.)

Endocladia muricata (F)										Gloiopeltis furcata (A)								Neorhodomela/Rhodomela (F) (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	6	0.00	0.00	-	o	1.000	6	4.58	2.92	6	0.00	0.00	-	+	0.175	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	3.33	2.47	6	0.83	0.53	-	+	0.523	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	1.67	1.05	-	-	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	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	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	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	0.00	o				1.92	1.42		0.50	0.32	+				0.00	0.00		0.00	0.00	o		
Fisher's	Power		---		Power-50%	---	P-value	0.732	Power	0.072		Power-50%	0.108	P-value	0.251	Power	---		Power-50%	---	P-value	0.732		Power-50%	---	P-value	0.500	
Stouffer's	Power		---		Power-50%	---	P-value	0.500	Power	0.022		Power-50%	0.308	P-value	0.179	Power			Power-50%					Power-50%				
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	1.50	0.83	6	0.00	0.00	-	+	0.374
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	0.83	0.83	6	4.58	2.92	-	-	0.339
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	0.83	0.53	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	0.63	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	0.00	o				0.24	0.18		0.12	0.12	+				0.46	0.46		0.92	0.58	-		
Fisher's	Power		---		Power-50%	---	P-value	0.732	Power	0.016		Power-50%	0.017	P-value	0.320	Power	0.007		Power-50%	---	P-value	0.617		Power-50%	---	P-value	0.351	
Stouffer's	Power		---		Power-50%	---	P-value	0.500	Power	---		Power-50%	---	P-value	0.087	Power	0.001		Power-50%					Power-50%				
4825C/1424	3	2	0.00	0.00	6	0.00	0.00	-	o	1.000	2	0.00	0.00	6	0.42	0.42	-	-	0.363	2	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	1.00	1.00	4	0.00	0.00	-	+	0.374	5	1.00	1.00	4	0.00	0.00	-	+	0.374
601C/601	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	4.37	4.37	-	-	0.391
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	0.83	-	-	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	0.00	o				0.20	0.20		0.08	0.10	-				0.20	0.20		1.04	1.30	-		
Fisher's	Power		---		Power-50%	---	P-value	0.698	Power	---		Power-50%	---	P-value	0.581	Power	---		Power-50%	---	P-value	0.388		Power-50%	---	P-value	0.329	
Stouffer's	Power		---		Power-50%	---	P-value	0.500	Power	---		Power-50%	---	P-value	0.638	Power	---		Power-50%					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 5.328, Page 5, December 15, 1994

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	1.67	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			0.00	0.00		0.34	0.34	-				0.00	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	2.08	2.08	-	-	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	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	
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	3.13	3.13	-	-	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			0.16	0.16		1.04	1.04	-				0.00	0.00		0.00	0.00	-	o			0.00	0.00		0.00	0.00	-	o		
Fisher's	Power		---		Power-50%		---	P-value		0.454	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	
Stouffer's	Power		---		Power-50%		---	P-value		0.571	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	
4825C/1424	3	2	0.00	0.00	6	1.25	1.25	-	-	0.363	2	0.00	0.00	6	0.00	0.00	-	o	1.000	2	7.50	5.00	6	0.83	0.53	-	-	0.037	
453C/453	3	5	8.50	4.00	4	0.00	0.00	-	+	0.080	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	13.13	10.07	4	0.00	0.00	-	+	0.224	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	
598C/598	3	6	1.25	0.85	6	0.83	0.53	-	+	0.839	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	4.00	4.00	1	5.00	--	-	-	---	5	0.00	0.00	1	0.00	--	-	o	---	5	0.50	0.50	1	0.00	--	-	-	---	
Habitat Means			5.38	3.80		1.42		0.45	+			0.00	0.00		0.00	0.00	-	o			2.30	1.54		0.50	0.55	-	+		
Fisher's	Power		0.254		Power-50%		0.240	P-value		0.113	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.092	
Stouffer's	Power		0.167		Power-50%		0.357	P-value		0.107	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.460	

(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-5.328, Page 6, December 15, 1994



Table C-5.328. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. May 1991. Overstory removed 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		o				0.00	0.00		0.00		o				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		o				0.00	0.00		0.00		o				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	2	0.00	0.00	6	0.83	0.53	-	-	0.175	2	7.50	5.00	6	0.00	0.00	-	-	0.237	2	5.00	2.50	6	5.00	3.71	-	-	0.595	
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	-	-	0.100	5	3.00	1.84	4	0.00	0.00	-	-	0.178	
601C/601	3	4	0.00	0.00	4	1.25	1.25	-	-	0.391	4	0.00	0.00	4	0.00	0.00	-	-	0.100	4	0.00	0.00	4	0.00	0.00	-	-	0.100	
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	-	-	0.100	6	1.25	1.25	6	0.00	0.00	-	-	0.363	
1522C/1522	3	5	0.50	0.50	1	0.00	--	-	+	---	5	0.00	0.00	1	0.00	--	-	+	---	5	0.00	0.00	1	0.00	--	-	+	---	
Habitat Means			0.80	0.54		0.50		0.55	-			1.50	1.00		0.00		+				1.86	1.12		1.00		0.92	-	+	
Fisher's	Power		0.097		Power-50%	0.009	P-value		0.163	Power	0.010		Power-50%	0.009	P-value		0.393	Power	0.089		Power-50%	0.611	P-value		0.242				
Stouffer's	Power		0.032		Power-50%	0.141	P-value		0.349	Power	0.000		Power-50%	0.000	P-value		0.433	Power	---		Power-50%	---	P-value		0.684				

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

Table C-5.328. Page 7. December 15, 1994

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	2.50	2.50	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	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	0.42	0.42	-	o	1.000	6	0.00	0.00	6	0.00	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	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	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	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.58	0.58		0.08	0.08		+			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		0.450	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	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	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	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	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	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			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		0.732	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	2	5.00	2.50	6	5.00	3.71	-	o	0.595	2	0.00	0.00	6	0.00	0.00	-	o	1.000	2	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
453C/453	3	5	3.00	1.84	4	0.00	0.00	-	+	0.178	5	0.50	0.50	4	0.00	0.00	-	+	0.374	5	0.00	0.00	4	0.00	0.00	0.00	-	+	0.178
601C/601	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	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	-	+	0.100	6	0.00	0.00	6	0.00	0.00	0.00	-	+	0.100
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			1.86	1.12		1.00	0.92		+			0.10	0.10		0.00	0.00		-			0.00	0.00		0.00	0.00	0.00		+	
Fisher's	Power		0.081		Power-50%	0.600	P-value		0.242	Power	---		Power-50%	---	P-value		0.483	Power	---		Power-50%	---	P-value		0.698				
Stouffer's	Power		---		Power-50%	---	P-value		0.084	Power	---		Power-50%	---	P-value		0.315	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-5.328. Page 8. December 15, 1994

Table C-5.328. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. May 1991. Overstory removed May 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								
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	2.50	2.50	6	0.00	0.00	-	+	0.363								
453C/453	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								
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			0.58	0.58		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	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	2	0.00	0.00	6	0.00	0.00	-	o	1.000	2	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								
601C/601	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								
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			0.10	0.10		0.00	0.00		-									
Fisher's	Power		---		Power-50%		---	P-value	0.698		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	0.315		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-5.328, Page 9, December 15, 1994

Table C-5.329. Algal Percent Cover. Invertebrates. Prince William Sound. Sheltered Rocky. May 1991. Overstory removed 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	10.83	8.98	-	-	0.224	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000			
453C/453	1	6	5.00	3.16	6	2.92	1.50	-	+	0.836	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				
601C/601	1	6	11.67	5.61	6	3.75	1.55	-	+	0.222	6	0.00	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	0.85	6	4.17	2.01	-	-	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				
1522C/1522	1	6	13.42	10.54	6	19.17	5.94	-	-	0.488	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				
Habitat Means			6.68	4.04		8.18	4.00		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.24	0.24		-					
Fisher's	Power		0.191		Power-50%		0.450	P-value		0.226	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.359				
Stouffer's	Power		0.105		Power-50%		0.555	P-value		0.190	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.251				
4825C/1424	2	5	4.00	2.57	6	13.33	8.65	-	-	0.584	5	0.00	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	1.58	6	0.00	0.00	-	+	0.175	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	6.67	3.86	6	9.58	1.50	-	-	0.180	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	1.25	0.85	-	-	0.183				
598C/598	2	6	15.83	6.31	6	16.25	6.54	-	-	0.982	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	9.50	3.39	4	7.50	3.68	-	+	0.741	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			7.70	3.56		9.34	4.08		-			0.00	0.00		0.08	0.08		-			0.08	0.08		0.26	0.18		-					
Fisher's	Power		0.093		Power-50%		0.779	P-value		0.457	Power	---		Power-50%		---	P-value		0.536	Power	0.001		Power-50%		---	P-value		0.500				
Stouffer's	Power		0.030		Power-50%		0.802	P-value		0.650	Power	---		Power-50%		---	P-value		0.240	Power	0.000		Power-50%		---	P-value		0.569				
4825C/1424	3	2	0.00	0.00	6	0.42	0.42	-	-	0.363	2	0.00	0.00	6	0.00	0.00	-	o	1.000	2	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	2.00	2.00	4	0.00	0.00	-	+	0.374				
601C/601	3	4	1.88	1.88	4	14.37	12.76	-	-	0.387	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				
598C/598	3	6	3.33	1.79	6	1.67	0.83	-	+	0.637	6	0.00	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	4.50	1.46	1	0.00	--	-	+	---	5	0.00	0.00	1	0.00	--	-	o	---	5	0.50	0.50	1	0.00	--	-	-	---				
Habitat Means			1.94	1.04		3.30	3.50		-			0.00	0.00		0.00	0.00		o			0.50	0.50		0.00	0.00		-					
Fisher's	Power		0.022		Power-50%		0.058	P-value		0.355	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.483				
Stouffer's	Power		0.039		Power-50%		0.000	P-value		0.516	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.

Table C-5.329, Page 1, December 15, 1994

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	0.00	-	+	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	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	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	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	0.00	0.00	6	0.00	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	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	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	0.00	-	+	0.363	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	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		0.00	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		0.240	Power	---		Power-50%		---	P-value		0.500				
4825C/1424	3	2	0.00	0.00	6	0.00	0.00	-	o	1.000	2	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000	2	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	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	4	0.00	0.00	-	o	1.000	4	0.63	0.63	4	0.00	0.00	0.00	-	+	0.391	4	0.00	0.00	4	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	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			0.12	0.12		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		0.492	Power	---		Power-50%		---	P-value		0.698				
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.420	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 5.329, Page 2, December 15, 1994

Table C-5.330. Algal Percent Cover, Substrates, Prince William Sound, Sheltered Rocky, May 1991, Overstory removed 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.

Site Pair	Mvd	N	Rock										Oiled Rock										Sand														
			C	SE	N	O	SE	CV	D	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	6	74.17	8.53	6	76.67	11.36	-	-	0.736	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	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	79.58	6.69	6	82.92	4.93	-	-	0.863	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	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	78.75	11.61	6	94.17	2.30	-	-	0.209	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	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	88.33	7.68	6	95.83	2.01	-	-	0.594	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	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	83.75	10.34	6	58.33	11.79	-	+	0.140	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	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			80.94	8.96		81.58	6.48	-				0.00	0.00		0.00	0.00	-	o			0.00	0.00		0.00	0.00	-	o			0.00	0.00		0.00	0.00	-	o	
Fisher's	Power		0.124		Power-50%		1.000	P-value		0.376	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's	Power		0.041		Power-50%		1.000	P-value		0.296	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	47.00	13.17	6	40.83	16.07	-	+	0.749	5	0.00	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	53.75	16.64	6	73.33	15.16	-	-	0.416	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	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	82.92	4.81	6	77.08	8.02	-	-	0.510	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	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	76.25	7.98	6	64.17	11.29	-	-	0.582	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	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	62.00	12.31	4	23.75	4.27	-	-	0.037	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			64.40	10.98		55.84	10.98	-				0.00	0.00		0.00	0.00	-	o			0.00	0.00		0.00	0.00	-	o			0.00	0.00		0.00	0.00	-	o	
Fisher's	Power		0.409		Power-50%		0.948	P-value		0.111	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's	Power		0.252		Power-50%		0.831	P-value		0.265	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	2	13.75	13.75	6	7.08	4.54	-	+	0.669	2	0.00	0.00	6	0.00	0.00	-	o	1.000	2	0.00	0.00	6	0.00	0.00	-	o	1.000	2	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	5	27.00	13.56	4	100.00	0.00	-	-	0.005	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	23.75	10.48	4	4.37	2.95	-	-	0.088	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
598C/598	3	6	40.00	16.28	6	26.67	13.58	-	+	0.479	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	10.42	7.48	6	0.00	0.00	-	+	0.192	6	10.42	7.48	6	0.00	0.00	-	+	0.192
1522C/1522	3	5	27.00	10.23	1	5.00	---	-	+	---	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			26.32	12.88		28.64	5.28	-				0.00	0.00		0.00	0.00	-	o			2.08	1.50		0.00	0.00	-	+			2.08	1.50		0.00	0.00	-	+	
Fisher's	Power		0.196		Power-50%		0.608	P-value		0.185xy	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.356
Stouffer's	Power		0.049		Power-50%		0.448	P-value		0.695	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.150

x At least one site pair p-value < 0.100 in 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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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	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	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	0.42	0.42	~	-	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	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	0.00	~	o	1.000
Habitat Means			0.00	0.00		0.00			o			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		0.536	
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	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	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	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	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	0.00	~	o	1.000
Habitat Means			0.00	0.00		0.00			o			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	2	0.00	0.00	6	0.00	0.00	~	o	1.000	2	0.00	0.00	6	0.00	0.00	~	o	1.000	2	0.00	0.00	6	0.00	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	0.00	~	o	1.000
601C/601	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	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	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			o			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	

Table C-5.330. Algal Percent Cover, Totals and Seasonal Groups, Prince William Sound, Sheltered Rocky, May 1991. Overstory removed May 1990. (Continued.)

Site Pair	Mvd	N	Sand and Mud								Total Substrate																	
			C	SE	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	74.17	8.53	6	76.67	11.36	-	-	0.736									
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	79.58	6.69	6	82.92	4.93	-	-	0.863									
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	78.75	11.61	6	94.17	2.30	-	-	0.209									
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	88.33	7.68	6	95.83	2.01	-	-	0.594									
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	83.75	10.34	6	58.33	11.79	-	+	0.140									
Habitat Means			0.00	0.00		0.00	0.00		o			80.94	8.96		81.58	6.48		-										
Fisher's	Power		---		Power-50%	---	P-value	0.732		Power	0.131		Power-50%	1.000	P-value	0.376		Power	---		Power-50%	---	P-value					
Stouffer's	Power		---		Power-50%	---	P-value	0.500		Power	0.042		Power-50%	1.000	P-value	0.296		Power	---		Power-50%	---	P-value					
4825C/1424	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	47.00	13.17	6	40.83	16.07	-	-	0.749									
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	53.75	16.64	6	73.33	15.16	-	-	0.416									
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	82.92	4.81	6	77.08	8.02	-	-	0.510									
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	76.25	7.98	6	64.17	12.29	-	+	0.582									
1522C/1522	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	62.00	12.31	4	23.75	4.27	-	-	0.037									
Habitat Means			0.00	0.00		0.00	0.00		o			64.40	10.98		55.84	10.98		+										
Fisher's	Power		---		Power-50%	---	P-value	0.732		Power	0.389		Power-50%	0.965	P-value	0.111		Power	---		Power-50%	---	P-value					
Stouffer's	Power		---		Power-50%	---	P-value	0.500		Power	0.238		Power-50%	0.856	P-value	0.265		Power	---		Power-50%	---	P-value					
4825C/1424	3	2	0.00	0.00	6	0.00	0.00	-	o	1.000	2	13.75	13.75	6	7.08	4.54	-	+	0.669									
453C/453	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	27.00	13.56	4	100.00	0.00	-	-	0.005									
601C/601	3	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	23.75	10.48	4	4.37	2.95	-	+	0.088									
598C/598	3	6	10.42	7.48	6	0.00	0.00	-	+	0.192	6	50.42	14.74	6	26.67	13.58	-	+	0.228									
1522C/1522	3	5	0.00	0.00	1	0.00	--	-	o	---	5	27.00	10.23	1	5.00	--	-	+	---									
Habitat Means			2.08	1.50		0.00	0.00		+			28.40	12.56		28.64	5.28		-										
Fisher's	Power		0.002		Power-50%	0.000	P-value	0.356		Power	0.328		Power-50%	0.704	P-value	0.119 <sub>NV</sub>		Power	---		Power-50%	---	P-value					
Stouffer's	Power		0.000		Power-50%	0.000	P-value	0.150		Power	0.111		Power-50%	0.514	P-value	0.546		Power	---		Power-50%	---	P-value					

x At least one site pair p-value < 0.10C in opposite direction of overall tests.  
y Direction of difference between habitat means is different (same direction of overall tests).  
z Only one site pair.

**Table C-5.331. Algal Percent Cover, Totals and Seasonal Groups, Prince William Sound, Sheltered Rocky, June 1991, Overstory removed 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	6	0.00	0.00	-	o	1.000	6	0.67	0.21	6	0.00	0.00	-	+	0.025	6	14.17	7.46	6	0.00	0.00	-	-	0.064	
453C/453	1	6	0.15	0.06	6	0.05	0.04	-	+	0.193	6	2.17	0.48	6	1.00	0.37	-	+	0.081	6	39.17	14.57	6	10.42	6.24	-	+	0.090	
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	0.03	0.03	6	0.00	0.00	-	+	0.363	6	0.33	0.33	6	0.33	0.21	-	o	1.000	6	2.92	2.92	6	0.83	0.53	-	+	0.815	
1522C/1522	1	6	0.00	0.00	6	0.11	0.09	-	-	0.269	6	0.50	0.22	6	1.33	0.61	-	-	0.230	6	23.33	11.67	6	21.25	11.85	-	+	0.978	
Habitat Means			0.04	0.02		0.03	0.02					0.73	0.25		0.57	0.27		+			15.92	7.34		6.58	3.80		+		
Fisher's	Power		0.016		Power-50%	0.023	P-value		0.346	Power	---		Power-50%	---	P-value		0.070		Power	---		Power-50%	---	P-value		0.081			
Stouffer's	Power		0.005		Power-50%	0.232	P-value		0.122	Power	0.091		Power-50%	1.000	P-value		0.218		Power	0.207		Power-50%	0.472	P-value		0.129			
4825C/1424	2	6	0.16	0.08	6	0.17	0.07	-	-	0.939	6	1.50	0.62	6	1.83	0.31	-	-	0.640	6	38.33	18.50	6	36.25	13.83	-	+	0.853	
453C/453	2	6	0.18	0.09	6	0.12	0.05	-	+	0.549	6	2.00	0.68	6	1.33	0.33	-	+	0.401	6	39.17	15.74	6	24.58	13.68	-	-	0.548	
601C/601	2	6	0.04	0.04	6	0.16	0.08	-	-	0.184	6	1.00	0.45	6	1.17	0.54	-	-	0.817	6	12.92	5.45	6	13.75	7.35	-	-	0.888	
598C/598	2	6	0.05	0.05	6	0.11	0.07	-	-	0.507	6	0.83	0.31	6	1.17	0.48	-	-	0.570	6	5.42	2.18	6	19.17	11.63	-	-	0.431	
1522C/1522	2	6	0.16	0.10	5	0.35	0.11	-	-	0.229	6	1.83	0.70	5	3.00	0.84	-	-	0.310	6	35.00	15.96	5	69.00	16.97	-	-	0.152	
Habitat Means			0.12	0.07		0.18	0.08					1.43	0.55		1.70	0.50		-			26.16	11.58		32.58	12.70		-		
Fisher's	Power		0.319		Power-50%	0.640	P-value		0.173	Power	0.269		Power-50%	0.897	P-value		0.377		Power	0.147		Power-50%	0.459	P-value		0.313			
Stouffer's	Power		0.326		Power-50%	0.630	P-value		0.222	Power	0.209		Power-50%	0.831	P-value		0.373		Power	0.143		Power-50%	0.416	P-value		0.275			
4825C/1424	3	4	0.47	0.04	5	0.21	0.14	-	+	0.160	4	3.75	0.25	5	2.20	1.07	-	+	0.248	4	69.38	14.63	5	70.00	19.70	-	-	0.910	
453C/453	3	5	0.46	0.08	5	0.12	0.07	-	-	0.014	5	4.40	0.98	5	0.80	0.49	-	+	0.011	5	86.50	11.06	5	14.50	9.57	-	+	0.002	
601C/601	3	4	0.17	0.12	5	0.39	0.16	-	-	0.335	4	2.00	0.71	5	3.60	1.17	-	-	0.310	4	21.25	9.49	5	67.00	19.80	-	-	0.085	
598C/598	3	5	0.46	0.06	6	0.32	0.12	-	-	0.344	5	3.80	0.86	6	3.50	1.12	-	+	0.842	5	59.50	15.13	6	55.83	17.99	-	+	0.720	
1522C/1522	3	6	0.30	0.10	4	0.38	0.06	-	-	0.561	6	2.67	0.67	4	3.75	0.48	-	-	0.271	6	42.50	17.72	4	91.25	5.91	-	-	0.049	
Habitat Means			0.37	0.08		0.28	0.11					3.32	0.69		2.77	0.86		+			55.84	13.60		59.72	14.60		-		
Fisher's	Power		---		Power-50%	---	P-value		0.034	Power	---		Power-50%	---	P-value		0.076		Power	---		Power-50%	---	P-value		0.094x			
Stouffer's	Power		---		Power-50%	---	P-value		0.029	Power	0.153		Power-50%	0.996	P-value		0.115		Power	0.080		Power-50%	0.786	P-value		0.871			

(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.

Table C-5.331, Page 1, December 15, 1994

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	2.08	1.64	6	17.08	10.54	-	-	0.212	6	83.75	7.27	6	82.92	10.54	-	+	0.807	6	14.17	7.46	6	0.00	0.00	-	-	0.064	
453C/453	-	6	2.08	1.64	6	2.92	2.45	-	-	0.886	6	58.75	14.79	6	86.67	8.56	-	-	0.121	6	36.67	13.30	6	8.33	5.94	-	-	0.065	
601C/601	-	6	10.00	5.55	6	5.00	3.10	-	+	0.593	6	90.00	5.55	6	94.58	3.06	-	-	0.654	6	0.00	0.00	6	0.00	0.00	-	o	1.000	
598C/598	1	6	6.25	3.64	6	6.25	2.72	-	o	0.811	6	90.83	6.38	6	92.92	3.06	-	-	0.946	6	0.42	0.42	6	0.83	0.53	-	-	0.549	
1522C/1522	1	6	6.67	6.18	6	9.17	4.17	-	-	0.453	6	70.00	10.97	6	69.58	12.57	-	+	0.920	6	23.33	11.67	6	18.33	10.36	-	+	0.876	
Habitat Means			5.44	3.72		8.10	4.60		-			78.68	9.02		85.34	7.58		-			14.92	6.58		5.48	3.36		+		
Fisher's	Power		0.154		Power-50%	0.609	P-value		0.371	Power	0.341		Power-50%	1.000	P-value		0.312		Power	---		Power-50%	---	P-value		0.066			
Stouffer's	Power		0.141		Power-50%	0.654	P-value		0.462	Power	0.257		Power-50%	0.991	P-value		0.178		Power	0.263		Power-50%	0.449	P-value		0.211			
4825C/1424	2	6	15.00	14.51	6	25.83	12.21	-	-	0.536	6	46.67	17.99	6	37.92	13.22	-	+	0.656	6	12.50	5.70	6	24.17	14.47	-	-	0.456	
453C/453	2	6	30.83	14.73	6	3.33	1.54	-	+	0.095	6	30.00	12.50	6	72.08	14.29	-	-	0.058	6	28.33	9.95	6	22.50	13.83	-	-	0.854	
601C/601	2	6	17.08	11.19	6	10.42	2.92	-	+	0.797	6	70.00	15.04	6	75.83	10.03	-	-	0.977	6	9.17	5.11	6	5.42	3.62	-	-	0.678	
598C/598	2	6	15.00	5.99	6	17.08	7.34	-	-	0.779	6	79.58	7.34	6	63.75	10.12	-	+	0.235	6	4.17	1.67	6	12.08	8.23	-	-	0.634	
1522C/1522	2	6	7.08	1.64	5	3.00	2.42	-	+	0.068	6	57.92	14.77	5	27.50	17.01	-	+	0.193	6	14.58	9.73	5	36.50	16.67	-	-	0.194	
Habitat Means			17.00	9.60		11.92	5.26		+			56.84	13.52		55.42	12.92		+			13.76	6.44		20.14	11.36		-		
Fisher's	Power		---		Power-50%	---	P-value		0.091	Power	0.101		Power-50%	0.793	P-value		0.248x		Power	0.137		Power-50%	0.704	P-value		0.294			
Stouffer's	Power		0.210		Power-50%	0.479	P-value		0.153	Power	0.066		Power-50%	0.667	P-value		0.405		Power	0.096		Power-50%	0.790	P-value		0.291			
4825C/1424	3	4	0.63	0.63	5	0.00	0.00	-	+	0.391	4	18.75	7.94	5	30.00	19.70	-	-	0.827	4	23.12	12.01	5	40.50	17.06	-	-	0.505	
453C/453	3	5	2.00	2.00	5	3.00	2.42	-	-	0.690	5	11.50	9.07	5	82.50	10.90	-	-	0.002	5	43.50	12.96	5	12.00	9.20	-	+	0.044	
601C/601	3	4	11.88	6.56	5	15.50	14.28	-	-	0.868	4	66.87	9.21	5	17.50	16.26	-	+	0.035	4	6.25	2.98	5	27.50	4.68	-	-	0.006	
598C/598	3	5	7.50	4.47	6	4.17	2.47	-	-	0.440	5	33.00	14.48	6	40.00	17.26	-	-	0.678	5	14.00	5.51	6	23.33	9.44	-	-	0.678	
1522C/1522	3	6	1.67	1.05	4	6.25	6.25	-	-	0.653	6	34.58	12.98	4	2.50	2.50	-	-	0.031	6	13.33	6.79	4	35.63	20.27	-	-	0.381	
Habitat Means			4.74	2.96		5.80	5.10		-			32.96	10.74		34.50	13.34		-			20.04	8.06		27.78	12.14		-		
Fisher's	Power		0.004		Power-50%	0.532	P-value		0.729	Power	---		Power-50%	---	P-value		0.053x		Power	---		Power-50%	---	P-value		0.030x			
Stouffer's	Power		0.011		Power-50%	0.383	P-value		0.647	Power	0.000		Power-50%	0.680	P-value		0.140		Power	0.255		Power-50%	0.843	P-value		0.435			

x At least one site pair p-value < 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.331, Page 2, December 15, 1994

Table C-5.331. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. June 1991. Overstory removed July 1990. (Continued.)

Site Pair	Mvd	N	Annuals (A)								Ephemerals (AE)																		
			C	SE	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	2.50	2.04	6	2.08	1.64	-	+	0.937	6	0.42	0.42	6	1.67	1.67	-	-	0.659										
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	2.50	2.50	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	2.92	2.08	-	-	0.189	6	0.00	0.00	6	0.42	0.42	-	-	0.363										
Habitat Means			1.00	0.90		1.08	0.82		-			0.08	0.08		0.42	0.42		-											
Fisher's	Power		0.007		Power-50%	0.001	P-value		0.343		Power	---		Power-50%	---	P-value		0.459		Power	---		Power-50%	---	P-value				
Stouffer's	Power		0.029		Power-50%	0.002	P-value		0.604		Power	---		Power-50%	---	P-value		0.336		Power	---		Power-50%	---	P-value				
4825C/1424	2	6	25.83	13.00	6	12.08	4.54	-	+	0.681	6	25.42	12.75	6	12.08	4.54	-	-	0.693										
453C/453	2	6	10.83	6.85	6	2.08	1.19	-	+	0.364	6	0.00	0.00	6	1.25	1.25	-	-	0.363										
601C/601	2	6	3.75	2.87	6	8.33	4.36	-	-	0.451	6	3.33	2.86	6	8.33	4.36	-	-	0.396										
598C/598	2	6	1.25	1.25	6	7.08	4.30	-	-	0.229	6	0.00	0.00	6	6.67	4.41	-	-	0.180										
1522C/1522	2	6	20.42	14.03	5	32.50	15.83	-	-	0.458	6	19.58	13.82	5	22.50	11.48	-	-	0.665										
Habitat Means			12.42	7.62		12.42	6.04		-			9.66	5.90		10.18	5.22		-											
Fisher's	Power		0.093		Power-50%	0.595	P-value		0.320	y	Power	0.181		Power-50%	0.152	P-value		0.151		Power	---		Power-50%	---	P-value				
Stouffer's	Power		0.076		Power-50%	0.767	P-value		0.235		Power	---		Power-50%	---	P-value		0.040		Power	---		Power-50%	---	P-value				
4825C/1424	3	4	46.25	9.87	5	29.50	18.07	-	+	0.301	4	43.13	8.38	5	24.50	15.13	-	-	0.217										
453C/453	3	5	43.00	13.52	5	2.50	2.50	-	+	0.007	5	21.50	12.36	5	2.50	2.50	-	+	0.153										
601C/601	3	4	15.00	10.05	5	39.50	16.23	-	-	0.385	4	11.88	7.32	5	37.50	15.63	-	-	0.339										
598C/598	3	5	45.50	13.45	6	32.50	14.32	-	+	0.465	5	39.50	13.31	6	29.17	12.34	-	-	0.513										
1522C/1522	3	6	29.17	12.56	4	55.63	21.56	-	-	0.199	6	23.33	9.48	4	53.75	22.58	-	-	0.148										
Habitat Means			35.80	11.92		31.92	14.54		+			27.86	10.18		29.50	13.62		-											
Fisher's	Power		---		Power-50%	---	P-value		0.043		Power	0.162		Power-50%	0.852	P-value		0.233	y	Power	---		Power-50%	---	P-value				
Stouffer's	Power		---		Power-50%	---	P-value		0.046		Power	0.059		Power-50%	0.857	P-value		0.180		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 5.331, June 7, December 15, 1994

Table C-5.332. Algal Percent Cover. Chlorophyta. Prince William Sound. Sheltered Rocky. June 1991. Overstory removed 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 (AR) (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	0.42	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	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	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			0.08	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	2	6	1.67	1.67	6	3.33	2.11	-	-	0.549	6	1.67	1.67	6	0.00	0.00	-	+	0.363	6	1.67	1.67	6	0.00	0.00	-	+	0.363				
453C/453	2	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	2	6	2.92	2.92	6	0.42	0.42	-	+	0.566	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	2	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				
1522C/1522	2	6	10.83	8.98	5	9.00	7.81	-	+	0.957	6	0.00	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			3.50	3.14		2.70	2.22	-	+			0.34	0.34		0.08	0.08	-	+			0.34	0.34		0.08	0.08	-	+					
Fisher's	Power		0.003		Power-50%	0.050		P-value	0.585		Power	---		Power-50%	---		P-value	0.632		Power	---		Power-50%	---		P-value	0.632					
Stouffer's	Power		0.010		Power-50%	0.196		P-value	0.565		Power	---		Power-50%	---		P-value	0.534		Power	---		Power-50%	---		P-value	0.534					
4825C/1424	3	4	28.13	7.93	5	24.50	15.13	-	+	0.504	4	6.88	4.25	5	3.50	3.50	-	+	0.484	4	6.88	4.25	5	3.50	3.50	-	+	0.484				
453C/453	3	5	16.50	13.08	5	0.00	0.00	-	+	0.224	5	12.00	10.23	5	0.00	0.00	-	+	0.240	5	12.00	10.23	5	0.00	0.00	-	+	0.240				
601C/601	3	4	6.25	6.25	5	21.00	9.64	-	+	0.292	4	6.25	6.25	5	8.50	6.78	-	+	0.787	4	6.25	6.25	5	8.50	6.78	-	+	0.787				
598C/598	3	5	14.50	7.84	6	16.25	6.91	-	-	0.846	5	1.00	1.00	6	2.92	1.00	-	-	0.179	5	1.00	1.00	6	2.92	1.00	-	-	0.179				
1522C/1522	3	6	13.33	6.76	4	11.25	4.62	-	+	0.881	6	1.67	1.67	4	5.62	4.13	-	-	0.327	6	1.67	1.67	4	5.62	4.13	-	-	0.327				
Habitat Means			15.74	8.38		14.62	7.24	-				5.58	4.70		4.10	3.08	-				5.58	4.70		4.10	3.08	-						
Fisher's	Power		0.064		Power-50%	0.774		P-value	0.424		Power	0.057		Power-50%	0.210		P-value	0.348	y	Power	0.071		Power-50%	0.238		P-value	0.348	y				
Stouffer's	Power		0.035		Power-50%	0.782		P-value	0.354		Power	0.036		Power-50%	0.387		P-value	0.278		Power	0.043		Power-50%	0.414		P-value	0.278					

(a) Kormannia, Monostroma, Ulva and Ulvaria.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.332, Page 1, December 15, 1994

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	0.42	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	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	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			0.08	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	2	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
453C/453	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	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	0.83	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
1522C/1522	2	6	10.83	8.98	5	9.00	7.81	-	+	0.957	6	0.00	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			2.58	2.22		2.30	2.06		-			0.42	0.42		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's	Power		0.001		Power-50%	0.001		P-value	0.448	y	Power	---		Power-50%	---		P-value	0.536		Power	---		Power-50%	---		P-value	0.732	
Stouffer's	Power		0.003		Power-50%	0.004		P-value	0.367		Power	---		Power-50%	---		P-value	0.315		Power	---		Power-50%	---		P-value	0.500	
4825C/1424	3	4	9.38	5.63	5	21.00	13.71	-	+	0.706	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	5	4.50	3.00	5	0.00	0.00	-	+	0.187	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	12.50	5.81	-	+	0.079	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	13.50	7.57	6	13.33	6.38	-	+	0.984	5	0.00	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	11.67	7.00	4	5.62	2.58	-	+	0.862	6	0.00	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			7.82	4.64		10.48	5.70		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		0.025		Power-50%	0.333		P-value	0.552	xy	Power	---		Power-50%	---		P-value	0.732		Power	---		Power-50%	---		P-value	0.732	
Stouffer's	Power		0.009		Power-50%	0.473		P-value	0.385		Power	---		Power-50%	---		P-value	0.500		Power	---		Power-50%	---		P-value	0.500	



Table C-5.332. Algal Percent Cover. Chlorophyta. Prince William Sound. Sheltered Rocky. June 1991. Overstory removed July 1990. (Continued.)

Cladophora sp. (AE)											Ulothrix sp. (AE)											Urospora sp. (AE)										
ite Pair	Mvd	N	C	SE	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	0.42	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	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	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			0.08	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	2	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				
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	0.83	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				
1522C/1522	2	6	10.83	8.98	5	9.00	7.81	-	+	0.957	6	0.00	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			2.16	1.80		2.30	2.06	-				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%	0.000	P-value	0.366		Power	---			Power-50%	---	P-value	0.732		Power	---			Power-50%	---	P-value	0.732						
Stouffer's	Power		0.008		Power-50%	0.000	P-value	0.206		Power	---			Power-50%	---	P-value	0.500		Power	---			Power-50%	---	P-value	0.500						
4825C/1424	3	4	9.38	5.63	5	21.00	13.71	-	-	0.706	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	5	4.50	3.00	5	0.00	0.00	-	+	0.187	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	12.50	5.81	-	-	0.079	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	13.50	7.57	6	13.33	6.38	-	-	0.984	5	0.00	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	11.67	7.00	4	5.62	2.58	-	-	0.862	6	0.00	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			7.82	4.64		10.48	5.70	-				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%	0.334	P-value	0.552xy		Power	---			Power-50%	---	P-value	0.732		Power	---			Power-50%	---	P-value	0.732						
Stouffer's	Power		0.006		Power-50%	0.492	P-value	0.385		Power	---			Power-50%	---	P-value	0.500		Power	---			Power-50%	---	P-value	0.500						

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

Table C-5.332, Page 3, December 15, 1994

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	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	1.67	1.67	-	-	0.363	6	0.00	0.00	6	1.67	1.67	-	-	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	2.92	2.92	6	0.00	0.00	-	+	0.363	6	2.92	2.92	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	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000													
Habitat Means			0.58	0.58		0.34	0.34	-				0.58	0.58		0.34	0.34	-															
Fisher's	Power	---			Power-50%	---	P-value	0.632 y		Power	---			Power-50%	---	P-value	0.632 y		Power	---			Power-50%	---	P-value	0.632 y						
Stouffer's	Power	---			Power-50%	---	P-value	0.534		Power	---			Power-50%	---	P-value	0.534		Power	---			Power-50%	---	P-value	0.534						
4825C/1424	3	4	11.87	11.87	5	0.00	0.00	-	+	0.391	4	11.87	11.87	5	0.00	0.00	-	+	0.391													
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			2.38	2.38		0.00	0.00	+				2.38	2.38		0.00	0.00	+															
Fisher's	Power	---			Power-50%	---	P-value	0.550		Power	---			Power-50%	---	P-value	0.550		Power	---			Power-50%	---	P-value	0.550						
Stouffer's	Power	---			Power-50%	---	P-value	0.453		Power	---			Power-50%	---	P-value	0.453		Power	---			Power-50%	---	P-value	0.453						

(a) Genera not separated.

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

Table C-5.332, Page 4, December 15, 1994









Table C-5.334. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. June 1991. Overstory removed 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	6	0.00	0.00	-	o	1.000	6	0.00	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			o			0.00	0.00		0.00			o			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	Power	---		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	Power	---		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			o			0.00	0.00		0.00			o			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	Power	---		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	Power	---		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	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	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00			o			0.00	0.00		0.00			o			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	Power	---		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	Power	---		0.500

y. At least one site pair p-value < 0.100 in 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	6	0.00	0.00	-	o	1.000	6	0.00	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	3.33	1.79	6	0.42	0.42	-	+	0.162	6	0.00	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	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	
1522C/1522	1	6	0.00	0.00	6	2.92	2.92	-	-	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			1.16	0.86		0.74	0.74		-			0.00	0.00		0.00			o			0.00	0.00		0.00			o		
Fisher's	Power		0.010		Power-50%	0.021	P-value		0.387	Power	---		Power-50%	---	P-value		0.732	Power	---		Power-50%	---	P-value		0.732	Power	---		0.732
Stouffer's	Power		0.006		Power-50%	0.023	P-value		0.147	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.500	Power	---		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	2.08	1.19	6	1.67	1.24	-	+	0.706	6	0.00	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	1.67	1.05	5	12.00	7.72	-	-	0.295	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.83	0.83	5	4.50	4.50	-	-	0.549	
Habitat Means			0.76	0.46		2.82	1.86		-			0.00	0.00		0.00			o			0.16	0.16		0.90	0.90		-		
Fisher's	Power		0.045		Power-50%	0.079	P-value		0.367	Power	---		Power-50%	---	P-value		0.732	Power	---		Power-50%	---	P-value		0.732	Power	---		0.616
Stouffer's	Power		0.085		Power-50%	0.124	P-value		0.235	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.500	Power	---		0.451
4825C/1424	3	4	0.00	0.00	5	3.00	3.00	-	-	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	5	22.00	10.53	5	5.50	5.50	-	+	0.133	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	0.63	0.63	5	6.50	3.12	-	-	0.170	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.30	0.30	-	-	0.374	
598C/598	3	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	0.42	0.42	-	-	0.363	
1522C/1522	3	6	5.00	5.00	4	10.00	7.71	-	-	0.475	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	5.00	5.00	4	0.00	0.00	-	-	0.363	
Habitat Means			5.52	3.22		5.08	3.94		-			0.00	0.00		0.00			o			1.00	1.00		0.38	0.38		-		
Fisher's	Power		0.126		Power-50%	0.018	P-value		0.143	y	Power	---		Power-50%	---	P-value		0.732	Power	---		Power-50%	---	P-value		0.291	y		
Stouffer's	Power		0.128		Power-50%	0.092	P-value		0.309	y	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	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.

Table C-5.334. Page 3. December 15, 1994

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	6	0.00	0.00	-	o	1.000	6	0.00	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	3.33	1.79	6	0.42	0.42	-	+	0.162	6	0.00	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	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	
1522C/1522	1	6	0.00	0.00	6	2.92	2.92	-	-	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			1.16	0.86		0.74	0.74		-			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%	0.021	P-value		0.387	Power	---		Power-50%	---	P-value		0.732	Power	---		Power-50%	---	P-value		0.732	Power	---		0.732
Stouffer's	Power		0.006		Power-50%	0.023	P-value		0.147	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.500	Power	---		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	2.08	1.19	6	1.67	1.24	-	+	0.706	6	0.00	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	1.67	1.05	5	12.00	7.72	-	-	0.295	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.83	0.83	5	4.50	4.50	-	-	0.549	
Habitat Means			0.76	0.46		2.82	1.86		-			0.00	0.00		0.00	0.00		o			0.16	0.16		0.90	0.90		-		
Fisher's	Power		0.045		Power-50%	0.079	P-value		0.367	Power	---		Power-50%	---	P-value		0.732	Power	---		Power-50%	---	P-value		0.616	Power	---		0.616
Stouffer's	Power		0.085		Power-50%	0.124	P-value		0.235	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.451	Power	---		0.451
4825C/1424	3	4	0.00	0.00	5	3.00	3.00	-	-	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	5	22.00	10.53	5	5.50	5.50	-	+	0.133	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	0.63	0.63	5	6.50	3.12	-	-	0.170	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	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	0.42	0.42	-	-	0.363	
1522C/1522	3	6	5.00	5.00	4	10.00	7.71	-	-	0.475	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	5.00	5.00	4	0.00	0.00	-	-	0.363	
Habitat Means			5.52	3.22		5.08	3.94		-			0.00	0.00		0.00	0.00		o			1.00	1.00		0.38	0.38		-		
Fisher's	Power		0.126		Power-50%	0.018	P-value		0.143 y	Power	---		Power-50%	---	P-value		0.732	Power	---		Power-50%	---	P-value		0.291 y	Power	---		0.291 y
Stouffer's	Power		0.128		Power-50%	0.092	P-value		0.309	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.199	Power	---		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.

Table C-5.334. Page 4. December 15, 1994

Table C-5.334. Algal Percent Cover. Rhodophyta. Prince William Sound, Sheltered Rocky, June 1991. Overstory removed 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	0.00	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	0.42	0.42	6	0.00	0.00	-	+	0.363	6	1.25	1.25	6	0.42	0.42	-	+	0.718	6	1.67	1.67	6	0.00	0.00	-	+	0.363				
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	2.50	2.50	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			0.08	0.08		0.00	0.00		+			0.76	0.76		0.16	0.16		+			0.34	0.34		0.00	0.00		+					
Fisher's			Power	---		Power-50%	---		P-value	0.536	Power	---		Power-50%	---		P-value	0.567	Power	---		Power-50%	---		P-value	0.536						
Stouffer's			Power	---		Power-50%	---		P-value	0.315	Power	---		Power-50%	---		P-value	0.246	Power	---		Power-50%	---		P-value	0.315						
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	0.42	0.42	6	0.83	0.53	-	-	0.549	6	0.00	0.00	6	0.00	0.00	-	o	1.000				
601C/601	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	0.42	0.42	-	-	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	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			0.08	0.08		0.24	0.18		-			0.00	0.00		0.00	0.00		o					
Fisher's			Power	---		Power-50%	---		P-value	0.732	Power	0.011		Power-50%	---		P-value	0.427	Power	---		Power-50%	---		P-value	0.732						
Stouffer's			Power	---		Power-50%	---		P-value	0.500	Power	0.021		Power-50%	---		P-value	0.153	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	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	8.12	8.12	-	+	0.391				
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.20	0.20		1.62	1.62		+					
Fisher's			Power	---		Power-50%	---		P-value	0.732	Power	---		Power-50%	---		P-value	0.732	Power	---		Power-50%	---		P-value	0.634 y						
Stouffer's			Power	---		Power-50%	---		P-value	0.500	Power	---		Power-50%	---		P-value	0.500	Power	---		Power-50%	---		P-value	0.385						

(a) Genera not separated.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.334, Page 5, December 15, 1994

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	2.92	2.92	-	-	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		0.58	0.58		-			0.00	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	1.67	1.24	6	0.83	0.83	-	+	0.580	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.67	1.67	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	0.00	0.00	-	o	1.000	6	0.00	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	5	7.50	7.50	-	-	0.474	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				
Habitat Means			0.50	0.40		1.66	1.66		-			0.00	0.00		0.00	0.00		o			0.34	0.34		0.20	0.20		-					
Fisher's			Power	0.000		Power-50%	0.005		P-value	0.656	Power	---		Power-50%	---		P-value	0.732	Power	---		Power-50%	---		P-value	0.630						
Stouffer's			Power	0.001		Power-50%	0.007		P-value	0.558	Power	---		Power-50%	---		P-value	0.500	Power	---		Power-50%	---		P-value	0.383						
4825C/1424	3	4	0.00	0.00	5	2.00	2.00	-	-	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	5	21.00	10.57	5	5.50	5.50	-	+	0.146	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	+	0.374				
601C/601	3	4	0.63	0.63	5	6.00	2.81	-	-	0.172	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				
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	0.50	0.50	6	1.25	0.85	-	-	0.565				
1522C/1522	3	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	6	0.00	0.00	4	1.88	1.88	-	-	0.391				
Habitat Means			4.32	2.24		3.08	2.44		-			0.00	0.00		0.00	0.00		o			0.10	0.10		0.94	0.86		-					
Fisher's			Power	0.037		Power-50%	0.008		P-value	0.220 y	Power	---		Power-50%	---		P-value	0.732	Power	---		Power-50%	---		P-value	0.290						
Stouffer's			Power	0.042		Power-50%	0.017		P-value	0.561	Power	---		Power-50%	---		P-value	0.500	Power	---		Power-50%	---		P-value	0.203						

(b) Genera not separated.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.334, Page 6, December 15, 1994





Table C-5.334. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. June 1991. Overstory removed 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	1.67	1.67	6	0.42	0.42	-	+	0.659	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			0.34	0.34		0.08	0.08		+			0.00	0.00		0.00	0.00		o											
Fisher's	Power		---		Power-50%		---	P-value	0.652		Power	---		Power-50%		---	P-value	0.732		Power	---		Power-50%		---				
Stouffer's	Power		---		Power-50%		---	P-value	0.408		Power	---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---				
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	0.42	0.42	6	0.00	0.00	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000										
601C/601	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			0.08	0.08		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%		---				
Stouffer's	Power		---		Power-50%		---	P-value	0.315		Power	---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---				
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	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										
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			0.10	0.10		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%		---				
Stouffer's	Power		---		Power-50%		---	P-value	0.319		Power	---		Power-50%		---	P-value	0.500		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 5.334. Page 9. December 15, 1994

Table C-5.335. Algal Percent Cover. Invertebrates. Prince William Sound, Sheltered Rocky, June 1991. Overstory removed 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	2.08	1.64	6	17.08	10.54	-	-	0.212	6	0.00	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	2.08	1.64	6	2.50	2.50	-	-	0.876	6	0.00	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	10.00	5.55	6	4.17	2.30	-	+	0.521	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	1	6	6.25	3.64	6	6.25	2.72	-	o	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	6.67	6.18	6	7.92	4.44	-	-	0.676	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	
Habitat Means			5.44	3.72		7.60	4.48	-				0.00	0.00		0.00	0.00	-	o			0.00	0.00		0.42	0.42	-			
Fisher's	Power		0.096		Power-50%	0.621	P-value		0.445	Power	---		Power-50%	---	P-value	0.732	Power	---		Power-50%	---	P-value	0.359				---	P-value	0.359
Stouffer's	Power		0.089		Power-50%	0.773	P-value		0.496	Power	---		Power-50%	---	P-value	0.500	Power	---		Power-50%	---	P-value	0.345				---	P-value	0.345
4825C/1424	2	6	12.08	12.08	6	25.42	12.01	-	-	0.383	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	28.75	15.00	6	3.33	1.54	-	+	0.154	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	2.08	1.64	6	0.00	0.00	-	-	0.204	
601C/601	2	6	17.08	11.19	6	8.75	3.21	-	+	0.991	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	1.67	1.67	-	-	0.082	
598C/598	2	6	15.00	5.99	6	16.67	7.12	-	-	0.800	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	6	4.17	2.01	5	0.50	0.50	-	+	0.108	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	2.92	1.50	5	2.50	2.50	-	-	0.617	
Habitat Means			15.44	9.26		10.94	4.86	-				0.00	0.00		0.16	0.16	-				1.00	0.62		0.84	0.66	-			
Fisher's	Power		0.287		Power-50%	0.457	P-value		0.182	Power	---		Power-50%	---	P-value	0.359	Power	0.007		Power-50%	0.026	P-value	0.461*				---	P-value	0.461*
Stouffer's	Power		0.319		Power-50%	0.637	P-value		0.219	Power	---		Power-50%	---	P-value	0.203	Power	0.001		Power-50%	0.039	P-value	0.354				---	P-value	0.354
4825C/1424	3	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	4	0.00	0.00	5	0.00	0.00	-	o	1.000	
453C/453	3	5	2.00	2.00	5	2.50	2.50	-	-	0.937	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	11.25	6.57	5	15.50	14.28	-	-	0.898	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	
598C/598	3	5	6.50	3.50	6	4.17	2.47	-	+	0.477	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	
1522C/1522	3	6	1.67	1.05	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	6.25	6.25	-	-	0.391	
Habitat Means			4.42	2.76		4.44	3.86	-	+			0.20	0.20		0.00	0.00	-	+			0.12	0.12		1.36	1.36	-			
Fisher's	Power		0.170		Power-50%	0.551	P-value		0.199	Power	---		Power-50%	---	P-value	0.542	Power	---		Power-50%	---	P-value	0.456				---	P-value	0.456
Stouffer's	Power		0.253		Power-50%	0.712	P-value		0.189	Power	---		Power-50%	---	P-value	0.245	Power	---		Power-50%	---	P-value	0.326				---	P-value	0.326

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

Table C-5.335, Page 1, December 15, 1994

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	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	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	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	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	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	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				---	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				---	P-value	0.500		
4825C/1424	2	6	2.92	2.45	6	0.00	0.00	-	+	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	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	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	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	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	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	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	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	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	0.00	0.00	-	o	1.000
Habitat Means			0.58	0.50		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00	0.00	0.00		o		
Fisher's	Power		0.000		Power-50%	0.000	P-value		0.445	Power	---		Power-50%	---	P-value	0.732	Power	---		Power-50%	---	P-value	0.732				---	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				---	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	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	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	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	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	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	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	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	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	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			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	0.732	Power	---		Power-50%	---	P-value	0.732				---	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				---	P-value	0.500		

Table C-5.336. Algal Percent Cover. Substrates. Prince William Sound. Sheltered Rocky. June 1991. Overstory removed 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.

Site	Pair	Mvd	Rock								Oiled Rock								Sand										
			N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4325C/1424	1	6	83.75	7.27	6	82.92	10.54	-	+	0.807	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
453C/453	1	6	58.75	14.79	6	86.67	8.56	-	-	0.121	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
601C/501	1	6	90.00	5.55	6	94.58	3.06	-	-	0.654	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
598C/598	1	6	90.83	6.38	6	92.92	3.06	-	-	0.946	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
1522C/1522	1	6	70.00	10.97	6	69.58	12.57	-	+	0.920	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
Habitat Means			78.68	9.02		85.34	7.58		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o		
Fisher's	Power		0.357		Power-50%	1.000	P-value		0.312	Power	---		Power-50%	---	P-value	0.732	Power	---		Power-50%	---	P-value	0.732						
Stouffer's	Power		0.262		Power-50%	1.000	P-value		0.178	Power	---		Power-50%	---	P-value	0.500	Power	---		Power-50%	---	P-value	0.500						
4325C/1424	2	6	46.67	17.99	6	37.92	13.22	-	+	0.656	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
453C/453	2	6	30.00	12.50	6	72.08	14.29	-	-	0.058	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
601C/501	2	6	70.00	15.04	6	75.83	10.03	-	-	0.977	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
598C/598	2	6	79.58	7.34	6	63.75	10.12	-	+	0.235	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
1522C/1522	2	6	57.92	14.77	5	27.50	17.01	-	+	0.193	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
Habitat Means			56.84	13.52		55.42	12.92		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o		
Fisher's	Power		0.101		Power-50%	0.771	P-value		0.248	Power	---		Power-50%	---	P-value	0.732	Power	---		Power-50%	---	P-value	0.732						
Stouffer's	Power		0.076		Power-50%	0.829	P-value		0.405	Power	---		Power-50%	---	P-value	0.500	Power	---		Power-50%	---	P-value	0.500						
4325C/1424	3	4	18.75	7.94	5	30.00	19.70	-	-	0.827	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
453C/453	3	5	11.50	9.07	5	82.50	10.90	-	-	0.002	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
601C/501	3	4	66.87	9.21	5	17.50	16.26	-	-	0.035	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
598C/598	3	5	33.00	14.48	6	40.00	17.26	-	-	0.678	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
1522C/1522	3	6	34.58	12.98	4	2.50	2.50	-	-	0.031	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000
Habitat Means			32.96	10.74		34.50	13.34		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o		
Fisher's	Power		---		Power-50%	---	P-value		0.053	Power	---		Power-50%	---	P-value	0.732	Power	---		Power-50%	---	P-value	0.732						
Stouffer's	Power		0.001		Power-50%	0.919	P-value		0.140	Power	---		Power-50%	---	P-value	0.500	Power	---		Power-50%	---	P-value	0.500						

\* 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.  
 ‡ Only one site pair.

Table C 5.336, Page 1, December 15, 1994

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	
4525C/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	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	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	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	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	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00			o			0.00	0.00		0.00			o			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		
4525C/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	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	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	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	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	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00			o			0.00	0.00		0.00			o			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		
4525C/1424	3	4	11.25	11.25	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	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	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	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	0.00	-	o	1.000
1522C/1522	3	6	21.25	13.47	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	0.00	-	o	1.000
Habitat Means			6.52	4.96		0.00			+			0.00	0.00		0.00			o			0.00	0.00		0.00			o		
Fisher's	Power		0.017		Power-50%		0.028	P-value	0.266	Power		---		Power-50%		---	P-value	0.732	Power		---		Power-50%		---	P-value	0.732		
Stouffer's	Power		0.009		Power-50%		0.014	P-value	0.344	Power		---		Power-50%		---	P-value	0.500	Power		---		Power-50%		---	P-value	0.500		

\* 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.  
 ‡ Only one site pair.

Table C 5.336, Page 2, December 15, 1994

Table C-5.336. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. June 1991. Overstory removed July 1990. (Continued.)

Site Pair	Mvd	N	Sand and Mud								Total Substrate																	
			C	SE	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	83.75	7.27	6	82.92	10.54	-	-	0.807									
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	58.75	14.79	6	86.67	8.56	-	-	0.121									
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	90.00	5.55	6	94.58	3.06	-	-	0.654									
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	90.83	6.38	6	92.92	3.06	-	-	0.946									
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	70.00	10.97	6	69.58	12.57	-	-	0.920									
Habitat Means			0.00	0.00		0.00	0.00	-	o			78.68	9.02		85.34	7.58	-	-										
Fisher's	Power		---		Power-50%		---	P-value	0.732	Power	0.342		Power-50%	1.000	P-value	0.312	Power	---		Power-50%		---	P-value					
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power	0.255		Power-50%	1.000	P-value	0.178	Power	---		Power-50%		---	P-value					
4825C/1424	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	46.67	17.99	6	37.92	13.22	-	-	0.656									
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	30.00	12.50	6	72.08	14.29	-	-	0.058									
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	70.00	15.04	6	75.83	10.03	-	-	0.977									
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	79.58	7.34	6	63.75	10.12	-	-	0.235									
1522C/1522	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	57.92	14.77	5	27.50	17.01	-	-	0.193									
Habitat Means			0.00	0.00		0.00	0.00	-	o			56.84	13.52		55.42	12.92	-	-										
Fisher's	Power		---		Power-50%		---	P-value	0.732	Power	0.106		Power-50%	0.784	P-value	0.248x	Power	---		Power-50%		---	P-value					
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power	0.077		Power-50%	0.833	P-value	0.405	Power	---		Power-50%		---	P-value					
4825C/1424	3	4	11.25	11.25	5	0.00	0.00	-	+	0.391	4	30.00	14.11	5	30.00	19.70	-	o	0.923									
453C/453	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	11.50	9.07	5	82.50	10.90	-	-	0.002									
601C/601	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	66.87	9.21	5	17.50	16.26	-	+	0.035									
598C/598	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	33.00	14.48	6	40.00	17.26	-	-	0.678									
1522C/1522	3	6	21.25	13.47	4	0.00	0.00	-	+	0.175	6	55.83	16.99	4	2.50	2.50	-	+	0.018									
Habitat Means			6.52	4.96		0.00	0.00	-	-			39.44	12.78		34.50	13.34	-	-										
Fisher's	Power		0.020		Power-50%		0.029	P-value	0.266	Power	---		Power-50%	---	P-value	0.062xy	Power	---		Power-50%		---	P-value					
Stouffer's	Power		0.013		Power-50%		0.018	P-value	0.344	Power	0.001		Power-50%	0.867	P-value	0.160	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-5.336. Page 3, December 15, 1994

**Table C-5.337. Algal Percent Cover, Totals and Seasonal Groups, Prince William Sound, Coarse Textured, May 1991. Overstory removed 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	0.05	0.05	4	0.00	0.00	-	+	0.374	5	0.40	0.40	4	0.25	0.25	-	+	0.775	5	4.50	4.50	4	1.88	1.88	-	+	0.824				
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	8.50	8.50	5	0.00	0.00	-	+	0.374				
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.17	0.17	6	0.00	0.00	-	+	0.363	6	11.25	11.25	6	0.00	0.00	-	+	0.363				
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			0.01	0.01		0.00	0.00		+			0.19	0.19		0.06	0.06		+			6.08	6.08		0.48	0.48		+					
Fisher's	Power		---		Power-50%	---	P-value		0.483	Power	---		Power-50%	---	P-value		0.262		0.140	Power	---		Power-50%	---	P-value		0.270					
Stouffer's	Power		---		Power-50%	---	P-value		0.498	Power	---		Power-50%	---	P-value		0.140			Power	---		Power-50%	---	P-value		0.140					
506C/506	2	4	0.00	0.00	4	0.12	0.07	-	-	0.182	4	0.50	0.29	4	1.25	0.48	-	-	0.228	4	6.88	4.25	4	12.50	7.77	-	-	0.558				
1598C/1598	2	5	0.06	0.06	5	0.00	0.00	-	+	0.374	5	0.60	0.40	5	0.00	0.00	-	-	0.208	5	15.00	13.21	5	0.00	0.00	-	-	0.255				
846C/846	2	4	0.08	0.08	5	0.00	0.00	-	+	0.391	4	0.75	0.48	5	0.20	0.20	-	-	0.287	4	6.88	4.72	5	1.00	1.00	-	-	0.251				
1650C/1650	2	5	0.00	0.00	0	--	--	-	---	---	5	0.40	0.24	0	--	--	-	---	---	5	2.00	1.46	0	--	--	-	---	---				
Habitat Means			0.03	0.03		0.04	0.02		-			0.56	0.35		0.48	0.23		+			7.70	5.93		4.50	2.93		+					
Fisher's	Power		0.013		Power-50%	---	P-value		0.339	Power	---		Power-50%	---	P-value		0.194		0.066	Power	---		Power-50%	---	P-value		0.178					
Stouffer's	Power		0.007		Power-50%	---	P-value		0.138	Power	---		Power-50%	---	P-value		0.066			Power	---		Power-50%	---	P-value		0.078					
506C/506	3	4	0.39	0.11	4	0.22	0.15	-	+	0.407	4	3.75	1.03	4	2.50	0.96	-	+	0.409	4	96.88	3.13	4	40.63	21.10	-	+	0.027				
1598C/1598	3	3	0.13	0.07	4	0.00	0.00	-	-	0.187	3	1.33	0.67	4	0.25	0.25	-	+	0.147	3	26.67	20.73	4	19.37	19.37	-	+	0.681				
846C/846	3	2	0.00	0.00	2	0.00	0.00	-	o	1.000	2	0.50	0.50	2	0.00	0.00	-	+	0.500	2	23.75	23.75	2	0.00	0.00	-	+	0.500				
1650C/1650	3	6	0.13	0.07	0	--	--	-	---	---	6	1.33	0.49	0	--	--	-	---	---	6	26.67	14.71	0	--	--	-	---	---				
Habitat Means			0.16	0.06		0.07	0.05		+			1.73	0.67		0.92	0.40		-			43.52	15.58		20.00	13.50		+					
Fisher's	Power		0.237		Power-50%	0.488	P-value		0.157	Power	---		Power-50%	---	P-value		0.083			Power	---		Power-50%	---	P-value		0.035					
Stouffer's	Power		0.271		Power-50%	0.507	P-value		0.102	Power	---		Power-50%	---	P-value		0.056			Power	---		Power-50%	---	P-value		0.275					

(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.

Table C-5.337, Page 1, December 13, 1994

Site Pair	Mvd	N	Total Invertebrates							Rock							Perennials (P)											
			C	SE	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	3.50	0.61	4	0.63	0.63	-	-	0.008	5	92.00	4.90	4	97.50	1.77	-	-	0.219	5	3.50	3.50	4	0.00	0.00	-	+	0.374
1598C/1598	1	5	0.50	0.50	5	1.00	0.61	-	-	0.545	5	91.00	8.39	5	99.00	0.61	-	-	0.463	5	8.50	8.50	5	0.00	0.00	-	+	0.374
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	81.67	11.76	6	100.00	0.00	-	-	0.139	6	11.25	11.25	6	0.00	0.00	-	+	0.363
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			1.00	0.28		0.40	0.30		+			91.18	6.28		99.13	0.60		-			5.83	5.83		0.00	0.00		+	
Fisher's	Power		---		Power-50%	---	P-value		0.069	Power	---		Power-50%	---	P-value		0.080		0.136	Power	---		Power-50%	---	P-value		0.175	
Stouffer's	Power		0.175		Power-50%	0.572	P-value		0.709	Power	---		Power-50%	---	P-value		1.000		0.136	Power	---		Power-50%	---	P-value		0.140	
506C/506	2	4	6.25	2.39	4	5.63	3.29	-	+	0.560	4	86.88	4.61	4	81.88	5.90	-	+	0.497	4	4.37	4.37	4	9.38	8.56	-	-	0.643
1598C/1598	2	5	4.50	1.22	5	6.00	2.03	-	+	0.734	5	80.50	12.16	5	94.00	2.03	-	-	0.256	5	10.50	8.75	5	0.00	0.00	-	+	0.231
846C/846	2	4	8.75	3.89	5	1.00	0.61	-	+	0.020	4	61.25	20.45	5	98.00	1.46	-	-	0.047	4	4.38	2.58	5	1.00	1.00	-	+	0.292
1650C/1650	2	5	3.00	1.84	0	--	--	-	---	---	5	95.00	3.16	0	--	--	-	---	---	5	2.00	1.46	0	--	--	-	---	---
Habitat Means			5.65	2.33		4.20	1.97		+			80.93	10.13		91.30	3.13		-			5.33	4.33		3.47	3.20		-	
Fisher's	Power		---		Power-50%	---	P-value		0.048	Power	---		Power-50%	---	P-value		0.058		0.049	Power	0.099		Power-50%	---	P-value		0.177	
Stouffer's	Power		0.345		Power-50%	0.940	P-value		0.367	Power	---		Power-50%	---	P-value		0.049			Power	---		Power-50%	---	P-value		0.074	
506C/506	3	4	0.00	0.00	4	3.13	2.37	-	-	0.216	4	3.13	3.13	4	56.25	19.70	-	-	0.025	4	28.13	11.24	4	20.63	11.24	-	+	0.531
1598C/1598	3	3	0.83	0.83	4	11.25	4.15	-	-	0.117	3	71.67	21.03	4	69.38	15.72	-	+	0.842	3	4.17	3.00	4	19.37	19.37	-	-	0.753
846C/846	3	2	5.00	5.00	2	2.50	2.50	-	+	0.829	2	71.25	18.75	2	97.50	2.50	-	-	0.225	2	23.75	23.75	2	0.00	0.00	-	-	0.500
1650C/1650	3	6	6.67	3.46	0	--	--	-	---	---	6	65.83	15.02	0	--	--	-	---	---	6	4.58	2.69	0	--	--	-	---	---
Habitat Means			3.13	2.33		5.63	3.03		-			52.97	14.48		74.40	12.63		-			15.17	10.18		13.33	10.20		+	
Fisher's	Power		---		Power-50%	---	P-value		0.083	Power	---		Power-50%	---	P-value		0.027		0.434	Power	0.096		Power-50%	---	P-value		0.383	
Stouffer's	Power		---		Power-50%	---	P-value		0.074	Power	---		Power-50%	---	P-value		0.452			Power	0.128		Power-50%	---	P-value		0.542	

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

**Table C-5.338. Algal Percent Cover. Chlorophyta.**  
Results of statistical differences between means  
SE = standard error; D = direction of difference

extured. May 1991. Overstory removed June 1990.

s. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation;  
rol < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

Total Chlorophl										Morphological Group: Bladed Greens										Bladed Greens (AE) (a)									
Site Pair	Mvd	N	C	SE	N	O				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	0.00	o				0.00	0.00	0.00	0.00	0.00	0.00		o		
Fisher's	Power		---		Power-50%	---	P-value	0.698		ower	---		Power-50%	---	P-value	0.698				Power	---		Power-50%	---	P-value	0.698			
Stouffer's	Power		---		Power-50%	---	P-value	0.500		ower	---		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	4.50	4.50	5	0.00	0.00	-	+	0.374	5	4.50	4.50	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	0.00	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			1.13	1.13	0.00	0.00	+				1.13	1.13	0.00	0.00	0.00	+				1.13	1.13	0.00	0.00	0.00	0.00	+			
Fisher's	Power		---		Power-50%	---	P-value	0.409		ower	---		Power-50%	---	P-value	0.409				Power	---		Power-50%	---	P-value	0.409			
Stouffer's	Power		---		Power-50%	---	P-value	0.197		ower	---		Power-50%	---	P-value	0.197				Power	---		Power-50%	---	P-value	0.197			
506C/506	3	4	23.75	17.72	4	2.50	1.44	-	+	0.342	4	13.75	13.75	4	1.25	1.25	-	+	0.507	4	13.75	13.75	4	1.25	1.25	-	+	0.507	
1598C/1598	3	3	19.17	19.17	4	0.00	0.00	-	+	0.423	3	0.00	0.00	4	0.00	0.00	-	+	1.000	3	0.00	0.00	4	0.00	0.00	-	+	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	20.00	13.66	0	--	--	-	---	---	6	20.00	13.66	0	--	--	-	---	---	6	20.00	13.66	0	--	--	-	---	---	
Habitat Means			15.75	12.65	0.83	0.47	+				8.45	6.88	0.43	0.43	+					8.45	6.88	0.43	0.43	+					
Fisher's	Power		0.083		Power-50%	0.038	P-value	0.236		ower	0.003		Power-50%	0.000	P-value	0.480				Power	0.002		Power-50%	0.002	P-value	0.480			
Stouffer's	Power		0.101		Power-50%	0.049	P-value	0.220		ower	0.002		Power-50%	0.000	P-value	0.499				Power	0.001		Power-50%	0.001	P-value	0.499			

(a) 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.

Table C 5.338, Page 1, December 15, 1994

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	0.00	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	0.00		o			0.00	0.00	0.00	0.00	0.00		o			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	0.698				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	0.00		o			0.00	0.00	0.00	0.00	0.00		o			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	0.655				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	8.75	5.05	4	1.25	1.25	-	+	0.288	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	19.17	19.17	4	0.00	0.00	-	+	0.423	3	0.00	0.00	4	0.00	0.00	-	+	1.000	3	0.00	0.00	4	0.00	0.00	-	+	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			7.00	6.07	0.43	0.43	+					0.00	0.00	0.00	0.00	0.00		o			0.00	0.00	0.00	0.00	0.00		o		
Fisher's	Power		0.097		Power-50%	0.075	P-value	0.212		Power	---		Power-50%	---	P-value	0.655				Power	---		Power-50%	---	P-value	0.655			
Stouffer's	Power		0.125		Power-50%	0.063	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 5.338, Page 2, December 15, 1994

Table C-5.338. Algal Percent Cover. Chlorophyta. Prince William Sound. Coarse Textured. May 1991. Overstory removed 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	0.00	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	0.00		o			0.00	0.00	0.00	0.00	0.00		o			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		0.698	Power	---		Power-50%	---	P-value		0.698	Power	---		Power-50%	
Stouffer's	Power		---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%	
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	0.00		o			0.00	0.00	0.00	0.00	0.00		o			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		0.655	Power	---		Power-50%	---	P-value		0.655	Power	---		Power-50%	
Stouffer's	Power		---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%	
506C/506	3	4	8.75	5.05	4	1.25	1.25	-	+	0.288	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	1.25	0.72	4	0.00	0.00	-	+	0.182		
1598C/1598	3	3	19.17	19.17	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	-	+	0.000		
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			7.00	6.07	0.43	0.43		+				0.00	0.00	0.00	0.00	0.00		o			0.33	0.17	0.00	0.00	0.00		-			
Fisher's	Power		0.096		Power-50%	0.078	P-value		0.212	Power	---		Power-50%	---	P-value		0.655	Power	---		Power-50%	---	P-value		0.045	Power	---		Power-50%	
Stouffer's	Power		0.151		Power-50%	0.061	P-value		0.219	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.000	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.

**Blidingia/Enteromorpha (AE) (a)**

Bridging to Success: Metrics (N=7) (n=7)										Bridging to Success: Metrics (N=7) (n=7)										Bridging to Success: Metrics (N=7) (n=7)										Bridging to Success: Metrics (N=7) (n=7)									
Site Pair	Mvd	N	C	SE	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	1.25	0.72	4	0.00	0.00	-	+	0.182																													
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			0.33	0.17		0.00	0.00		+																														
Fisher's	Power		0.000		Power-50%	0.045	P-value		0.271	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-5.339. Algal Percent Cover, Phaeophyta, Prince William Sound, Coarse Textured, May 1991. Overstory removed 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	3.50	3.50	4	0.00	0.00	-	+	0.374	5	3.50	3.50	4	0.00	0.00	-	-	0.374	5	0.00	0.00	4	0.00	0.00	-	o	1.000				
1598C/1598	1	5	8.50	8.50	5	0.00	0.00	-	+	0.374	5	8.50	8.50	5	0.00	0.00	-	-	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000				
846C/846	1	6	11.25	11.25	6	0.00	0.00	-	+	0.363	6	11.25	11.25	6	0.00	0.00	-	-	0.363	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			5.83	5.83		0.00	0.00		+			5.83	5.83		0.00	0.00		+			0.00	0.00		0.00	0.00		o					
Fisher's	Power		---		Power-50%	---	P-value			0.175	Power	---		Power-50%	---	P-value			0.175	Power	---		Power-50%	---	P-value			0.698				
Stouffer's	Power		---		Power-50%	---	P-value			0.140	Power	---		Power-50%	---	P-value			0.140	Power	---		Power-50%	---	P-value			0.500				
506C/506	2	4	6.88	4.25	4	2.50	1.77	-	+	0.564	4	4.37	4.37	4	2.50	1.77	-	+	0.993	4	0.00	0.00	4	0.00	0.00	-	o	1.000				
1598C/1598	2	5	10.50	8.75	5	0.00	0.00	-	+	0.231	5	10.50	8.75	5	0.00	0.00	-	-	0.231	5	0.00	0.00	5	0.00	0.00	-	o	1.000				
846C/846	2	4	4.38	2.58	5	1.00	1.00	-	+	0.292	4	4.38	2.58	5	1.00	1.00	-	-	0.292	4	0.00	0.00	5	0.00	0.00	-	o	1.000				
1650C/1650	2	5	2.00	1.46	0	--	--	--	--	---	5	2.00	1.46	0	--	--	--	--	---	5	0.00	0.00	0	--	--	--	--	---				
Habitat Means			5.95	4.30		1.17	0.93		+			5.33	4.33		1.17	0.93		-			0.00	0.00		0.00	0.00		o					
Fisher's	Power		---		Power-50%	---	P-value			0.098	Power	0.194		Power-50%	0.218	P-value			0.144	Power	---		Power-50%	---	P-value			0.655				
Stouffer's	Power		---		Power-50%	---	P-value			0.074	Power	---		Power-50%	---	P-value			0.074	Power	---		Power-50%	---	P-value			0.500				
506C/506	3	4	71.88	18.91	4	27.50	15.38	-	+	0.093	4	28.13	11.24	4	16.25	9.82	-	+	0.379	4	0.00	0.00	4	0.00	0.00	-	o	1.000				
1598C/1598	3	3	3.33	3.33	4	19.37	19.37	-	-	0.645	3	0.00	0.00	4	19.37	19.37	-	-	0.391	3	0.00	0.00	4	0.00	0.00	-	o	1.000				
846C/846	3	2	23.75	23.75	2	0.00	0.00	-	+	0.500	2	23.75	23.75	2	0.00	0.00	-	+	0.500	2	0.00	0.00	2	0.00	0.00	-	o	1.000				
1650C/1650	3	6	3.75	2.39	0	--	--	--	--	---	6	1.67	0.83	0	--	--	--	--	---	6	0.00	0.00	0	--	--	--	--	---				
Habitat Means			25.70	12.10		15.63	11.60		-			13.40	8.95		11.90	9.73		+			0.00	0.00		0.00	0.00		o					
Fisher's	Power		0.124		Power-50%	0.246	P-value			0.138	Power	0.053		Power-50%	0.117	P-value			0.366	Power	---		Power-50%	---	P-value			0.655				
Stouffer's	Power		0.150		Power-50%	0.357	P-value			0.595	Power	0.030		Power-50%	0.129	P-value			0.734	Power	---		Power-50%	---	P-value			0.500				

\* At least one site pair p-value < 0.100 in 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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Total <i>Fucus gardneri</i> (P)											Adult <i>Fucus gardneri</i> (P) (> 2cm)											Juvenile <i>Fucus gardneri</i> (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	3.50	3.50	4	0.00	0.00	-	+	0.374	5	2.50	2.50	4	0.00	0.00	-	+	0.374	5	1.00	1.00	4	0.00	0.00	-	+	0.374				
1598C/1598	1	5	8.50	8.50	5	0.00	0.00	-	+	0.374	5	7.50	7.50	5	0.00	0.00	-	+	0.374	5	1.00	1.00	5	0.00	0.00	-	+	0.374				
846C/846	1	6	11.25	11.25	6	0.00	0.00	-	+	0.363	6	11.25	11.25	6	0.00	0.00	-	+	0.363	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			5.83	5.83		0.00	0.00		-			5.33	5.33		0.00	0.00		+			0.50	0.50		0.00	0.00		-					
Fisher's	Power		---		Power-50%	---	P-value			0.175	Power	---		Power-50%	---	P-value			0.175	Power	---		Power-50%	---	P-value			0.303				
Stouffer's	Power		---		Power-50%	---	P-value			0.140	Power	---		Power-50%	---	P-value			0.140	Power	---		Power-50%	---	P-value			0.203				
506C/506	2	4	4.37	4.37	4	2.50	1.77	-	+	0.993	4	4.37	4.37	4	1.25	1.25	-	+	0.687	4	0.00	0.00	4	1.25	0.72	-	+	0.182				
1598C/1598	2	5	10.50	8.75	5	0.00	0.00	-	+	0.231	5	10.50	8.75	5	0.00	0.00	-	+	0.231	5	0.00	0.00	5	0.00	0.00	-	o	1.000				
846C/846	2	4	4.38	2.58	5	1.00	1.00	-	+	0.292	4	4.38	2.58	5	1.00	1.00	-	+	0.292	4	0.00	0.00	5	0.00	0.00	-	o	1.000				
1650C/1650	2	5	2.00	1.46	0	--	--	--	--	---	5	2.00	1.46	0	--	--	--	--	---	5	0.00	0.00	0	--	--	--	--	---				
Habitat Means			5.33	4.33		1.17	0.93		+			5.33	4.33		0.77	0.77		+			0.00	0.00		0.43	0.23		-					
Fisher's	Power		0.197		Power-50%	0.225	P-value			0.144	Power	0.221		Power-50%	0.241	P-value			0.113	Power	0.000		Power-50%	---	P-value			0.271				
Stouffer's	Power		---		Power-50%	---	P-value			0.074	Power	---		Power-50%	---	P-value			0.074	Power	0.000		Power-50%	---	P-value			0.497				
506C/506	3	4	28.13	11.24	4	16.25	9.82	-	+	0.379	4	27.50	10.94	4	15.63	9.26	-	+	0.366	4	0.63	0.63	4	0.63	0.63	-	o	1.000				
1598C/1598	3	3	0.00	0.00	4	19.37	19.37	-	+	0.391	3	0.00	0.00	4	19.37	19.37	-	+	0.391	3	0.00	0.00	4	0.00	0.00	-	o	1.000				
846C/846	3	2	23.75	23.75	2	0.00	0.00	-	+	0.500	2	23.75	23.75	2	0.00	0.00	-	+	0.500	2	0.00	0.00	2	0.00	0.00	-	o	1.000				
1650C/1650	3	6	1.67	0.83	0	--	--	--	--	---	6	1.67	0.83	0	--	--	--	--	---	6	0.00	0.00	0	--	--	--	--	---				
Habitat Means			13.40	8.95		11.90	9.73		-			13.25	8.88		11.67	9.57		+			0.15	0.15		0.20	0.20		o					
Fisher's	Power		0.051		Power-50%	0.118	P-value			0.366	Power	0.053		Power-50%	0.138	P-value			0.359	Power	---		Power-50%	---	P-value			0.655 y				
Stouffer's	Power		0.029		Power-50%	0.114	P-value			0.734	Power	0.033		Power-50%	0.129	P-value			0.734	Power	---		Power-50%	---	P-value			0.500				

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

Table C 5.339, Page 2, December 15, 1994

Table C-5.339. Algal Percent Cover. Phaeophyta. Prince William Sound. Coarse Textured. May 1991. Overstory removed 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	2.50	2.50	4	0.00	0.00	-	o	0.391	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			0.63	0.63		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	0.498	Power	---		Power-50%		---		P-value	0.500	
506C/506	3	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	1.25	1.25	4	1.25	1.25	-	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	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	0.83	0.83	0	--	--	-	---	---	6	0.00	0.00	0	--	--	-	---	---	
Habitat Means			0.00	0.00		0.00	0.00		o			0.53	0.53		0.43	0.43		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) 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-5.339, Page 3, December 15, 1994

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	2.50	2.50	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
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			0.63	0.63		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	0.498	Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500
506C/506	3	4	1.25	1.25	4	1.25	1.25	-	o	1.000	4	42.50	18.79	4	10.00	10.00	-	+	0.102	4	42.50	18.79	4	10.00	10.00	-	+	0.102
1598C/1598	3	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	3.33	3.33	4	0.00	0.00	-	o	0.423	3	3.33	3.33	4	0.00	0.00	-	o	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	0.83	0.83	0	--	--	-	---	---	6	1.25	1.25	0	--	--	-	---	---	6	1.25	1.25	0	--	--	-	---	---
Habitat Means			0.53	0.53		0.43	0.43		o			11.78	5.85		3.33	3.33		+			11.78	5.85		3.33	3.33		+	
Fisher's	Power		---		Power-50%		---		P-value	0.655	Power	0.132		Power-50%	0.208	P-value	0.107	Power	0.131		Power-50%	0.213	P-value	0.107				
Stouffer's	Power		---		Power-50%		---		P-value	0.500	Power	0.155		Power-50%	0.228	P-value	0.219	Power	0.150		Power-50%	0.236	P-value	0.219				

(a) Genera not separated.

(b) Elachista, Scytocarpus 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-5.339, Page 4, December 15, 1994

**Table C-5.340. Algal Percent Cover, Rhodophyta, Prince William Sound, Coarse Textured, May 1991. Overstory removed 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	1.00	1.00	4	1.88	1.88	-	-	0.769	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	-	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	-	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	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			0.25	0.25		0.48	0.48	-				0.00	0.00		0.00	0.00	-	o			0.00	0.00		0.00	0.00	-	o	
Fisher's	Power		---		Power-50%	---	P-value			0.639	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	10.00	6.04	-	-	0.103	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	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
1650C/1650	2	5	0.00	0.00	0	--	--	-	-	---	5	0.00	0.00	0	--	--	-	-	---	5	0.00	0.00	0	--	--	-	-	---
Habitat Means			0.63	0.63		3.33	2.00	-				0.00	0.00		0.00	0.00	-	o			0.00	0.00		0.00	0.00	-	o	
Fisher's	Power		0.024		Power-50%	---	P-value			0.256	Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.655
Stouffer's	Power		0.003		Power-50%	---	P-value			0.593	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500
506C/506	3	4	1.25	1.25	4	10.63	7.10	-	-	0.289	4	1.25	1.25	4	0.00	0.00	-	-	0.391	4	1.25	1.25	4	0.00	0.00	-	-	0.391
1598C/1598	3	3	4.17	3.00	4	0.00	0.00	-	+	0.227	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	2.92	2.92	0	--	--	-	-	---	6	0.00	0.00	0	--	--	-	-	---	6	0.00	0.00	0	--	--	-	-	---
Habitat Means			2.10	1.80		3.53	2.37	-	+			0.33	0.33		0.00	0.00	-				0.33	0.33		0.00	0.00	-		
Fisher's	Power		0.014		Power-50%	0.040	P-value			0.417 y	Power	---		Power-50%	---	P-value			0.419	Power	---		Power-50%	---	P-value			0.419
Stouffer's	Power		0.005		Power-50%	0.059	P-value			0.124	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.

Table C-5.340, Page 1, December 15, 1994

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	1.00	1.00	4	1.88	1.88	-	-	0.769	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	1.00	1.00	4	1.88	1.88	-	-	0.769
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			0.25	0.25		0.48	0.48	-				0.00	0.00		0.00	0.00	-	o			0.25	0.25		0.48	0.48	-		
Fisher's	Power		---		Power-50%	---	P-value			0.639	Power	---		Power-50%	---	P-value			0.698	Power	---		Power-50%	---	P-value			0.639
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	10.00	6.04	-	-	0.103	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	3.13	1.88	-	-	0.185
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	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	2.50	2.50	5	0.00	0.00	-	+	0.391
1650C/1650	2	5	0.00	0.00	0	--	--	-	-	---	5	0.00	0.00	0	--	--	-	-	---	5	0.00	0.00	0	--	--	-	-	---
Habitat Means			0.63	0.63		3.33	2.00	-				0.00	0.00		0.00	0.00	-	o			0.63	0.63		1.03	0.63	-		
Fisher's	Power		0.028		Power-50%	---	P-value			0.256	Power	---		Power-50%	---	P-value			0.655	Power	0.051		Power-50%	---	P-value			0.361
Stouffer's	Power		0.002		Power-50%	---	P-value			0.593	Power	---		Power-50%	---	P-value			0.500	Power	0.013		Power-50%	---	P-value			0.594
506C/506	3	4	0.00	0.00	4	10.63	7.10	-	-	0.198	4	0.00	0.00	4	3.13	3.13	-	-	0.391	4	0.00	0.00	4	3.13	3.13	-	-	0.391
1598C/1598	3	3	4.17	3.00	4	0.00	0.00	-	+	0.227	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	2.92	2.92	0	--	--	-	-	---	6	0.00	0.00	0	--	--	-	-	---	6	0.00	0.00	0	--	--	-	-	---
Habitat Means			1.78	1.48		3.53	2.37	-				0.00	0.00		1.03	1.03	-				0.00	0.00		1.03	1.03	-		
Fisher's	Power		0.005		Power-50%	0.018	P-value			0.396	Power	---		Power-50%	---	P-value			0.419	Power	---		Power-50%	---	P-value			0.419
Stouffer's	Power		0.000		Power-50%	0.007	P-value			0.875	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.

Table C-5.340, Page 2, December 15, 1994

Table C-5.340. Algal Percent Cover, Rhodophyta, Prince William Sound, Coarse Textured, May 1991. Overstory removed 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			o		0.00	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%	---		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%	---		Power-50%	---		P-value	0.500	
506C/506	2	4	0.00	0.00	4	6.88	6.88	-	-	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		2.30	2.30	-			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	0.419	Power	---		Power-50%	---		P-value	0.655	Power	---		Power-50%	---		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%	---		Power-50%	---		P-value	0.500	
506C/506	3	4	0.00	0.00	4	4.37	4.37	-	-	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	3	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	4.17	3.00	4	0.00	0.00	-	+	0.227	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	2.92	2.92	0	--	--	-	---	---	6	0.00	0.00	0	--	--	-	---	---	
Habitat Means			0.00	0.00		1.47	1.47	-			1.78	1.48		0.00		0.00		+		0.00	0.00	0.00		0.00		0.00		o	
Fisher's	Power		---		Power-50%	---		P-value	0.419	Power	0.016		Power-50%	0.033	P-value	0.309	Power	---		Power-50%	---		Power-50%	---		P-value	0.655		
Stouffer's	Power		---		Power-50%	---		P-value	0.498	Power	0.005		Power-50%	0.015	P-value	0.123	Power	---		Power-50%	---		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-5.340, Page 3, December 15, 1994

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%	---		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%	---		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%	---		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%	---		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	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		0.00	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%	---		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%	---		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-5.340, Page 4, December 15, 1994

Table C-5.341. Algal Percent Cover. Invertebrates. Prince William Sound. Coarse Textured. May 1991. Overstory removed 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.

Balanomorphs											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	2	5	3.50	0.61	4	0.00	0.00	-	+	0.000	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	0.50	0.50	5	1.00	0.61	-	-	0.545	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			1.00	0.28		0.25	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	0.007	Power	---		Power-50%		---		P-value	0.698	Power	---		Power-50%		---		P-value	0.698	
Stouffer's	Power		0.322		Power-50%		0.703		P-value	0.707	Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500	
506C/506	2	4	6.25	2.39	4	4.38	2.58	-	+	0.407	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	
1598C/1598	2	5	4.00	1.27	5	5.50	1.66	-	-	0.669	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.30	0.50	5	0.30	0.50	-	o	1.000	
846C/846	2	4	6.88	2.13	5	1.00	0.61	-	+	0.013	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	1.88	1.88	5	0.00	0.00	-	-	0.391	
1650C/1650	2	5	3.00	1.84	0	--	--	-	-	---	5	0.00	0.00	0	--	--	-	-	---	5	0.00	0.00	0	--	--	-	-	---	
Habitat Means			5.05	1.90		3.63	1.63		+			0.00	0.00		0.00	0.00		o			0.60	0.60		0.60	0.60		-		
Fisher's	Power		---		Power-50%		---		P-value	0.029	Power	---		Power-50%		---		P-value	0.655	Power	---		Power-50%		---		P-value	0.533	y
Stouffer's	Power		0.356		Power-50%		0.948		P-value	0.381	Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.595	
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	2.50	2.50	-	-	0.391	
1598C/1598	3	3	0.83	0.83	4	1.25	4.15	-	-	0.117	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	3.00	3.00	-	o	1.000	
846C/846	3	2	5.00	5.00	2	2.50	2.50	-	+	0.829	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	6.25	3.58	0	--	--	-	-	---	6	0.00	0.00	0	--	--	-	-	---	6	0.00	0.00	0	--	--	-	-	---	
Habitat Means			3.02	2.35		4.60	2.23		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.83	0.83		-		
Fisher's	Power		0.154		Power-50%		0.034		P-value	0.229	Power	---		Power-50%		---		P-value	0.655	Power	---		Power-50%		---		P-value	0.419	
Stouffer's	Power		---		Power-50%		---		P-value	0.075	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.

Table C-5.341. Page 1. December 15, 1994

		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	0.63	0.63	-	-	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		0.15	0.15		-																						
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	0.63	0.63	-	-	0.391																					
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	0.42	0.42	0	--	--	-	-	---																					
Habitat Means			0.10	0.10		0.20	0.20		-																						
Fisher's	Power		---		Power-50%		---		P-value	0.419	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				

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

Table C-5.341. Page 2. December 15, 1994

Table C-5.342. Algal Percent Cover. Substrates. Prince William Sound. Coarse Textured. May 1991. Overstory removed 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.

Site Pair	Mvd	N	Rock								Oiled Rock								Mud									
			C	SE	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	92.00	4.90	4	97.50	1.77	-	-	0.219	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	91.00	8.39	5	99.00	0.61	-	-	0.463	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	81.67	11.76	6	100.00	0.00	-	-	0.139	6	0.00	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			91.18	6.28		99.13	0.60		-			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			0.080	Power	---		Power-50%	---	P-value			0.698	Power	---		Power-50%	---	P-value			0.698
Stouffer's	Power		0.563		Power-50%	---	P-value			0.136	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500
506C/506	2	4	86.88	4.61	4	81.88	5.90	-	-	0.497	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	80.50	12.16	5	94.00	2.03	-	-	0.256	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	61.25	20.45	5	98.00	1.46	-	-	0.047	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	95.00	3.16	0	--	--	-	-	---	5	0.00	0.00	0	--	--	-	-	---	5	0.00	0.00	0	--	--	-	-	---
Habitat Means			80.93	10.13		91.30	3.13		-			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			0.058	Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.655
Stouffer's	Power		---		Power-50%	---	P-value			0.049	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500
506C/506	3	4	3.13	3.13	4	56.25	19.70	-	-	0.025	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	71.67	21.03	4	69.38	15.72	-	+	0.842	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	71.25	18.75	2	97.50	2.50	-	-	0.225	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	65.83	15.02	0	--	--	-	-	---	6	0.00	0.00	0	--	--	-	-	---	6	0.00	0.00	0	--	--	-	-	---
Habitat Means			52.97	14.48		74.40	12.63		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%	---	P-value			0.027	Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.655
Stouffer's	Power		0.359		Power-50%	---	P-value			0.434	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-5.342. Page 1, December 15, 1994

Site Pair	Mvd	N	Sand								Shell Fragments								Water									
			C	SE	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	6.67	6.67	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
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			1.68	1.68		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	23.13	23.13	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
1650C/1650	2	5	0.00	0.00	0	--	--	-	-	---	5	0.00	0.00	0	--	--	-	-	---	5	0.00	0.00	0	--	--	-	-	---
Habitat Means			5.77	5.77		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			0.404	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	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	0.83	0.83	0	--	--	-	-	---	6	0.00	0.00	0	--	--	-	-	---
Habitat Means			0.00	0.00		0.00	0.00		o			0.20	0.20		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 y	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-5.342. Page 2, December 15, 1994

Table C-5.342. Algal Percent Cover. Substrates. Prince William Sound. Coarse Textured. May 1991. Overstory removed 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	92.00	4.90	4	97.50	1.77	-	-	0.219
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	91.00	8.39	5	99.00	0.61	-	-	0.463
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	6.67	6.67	6	0.00	0.00	-	-	0.363	6	88.33	11.17	6	100.00	0.00	-	-	0.288
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	0.00		o			1.68	1.68	0.00	0.00	0.00		+			92.82	6.13		99.13	0.60		-	
Fisher's	Power		---		Power-50%		---	P-value	0.698	Power	---			Power-50%		---	P-value	0.477	Power	0.441		Power-50%	1.000	P-value	0.126			
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power	---			Power-50%		---	P-value	0.401	Power	0.441		Power-50%	1.000	P-value	0.163			
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	86.88	4.61	4	81.88	5.90	-	+	0.497
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	80.50	12.16	5	94.00	2.03	-	-	0.256
846C/846	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	23.13	23.13	5	0.00	0.00	-	+	0.391	4	84.38	6.87	5	98.00	1.46	-	-	0.039
1650C/1650	2	5	0.00	0.00	0	--	--	--	---	---	5	0.00	0.00	0	--	--	--	---	---	5	95.00	3.16	0	--	--	--	---	---
Habitat Means			0.00	0.00	0.00	0.00	0.00		o			5.77	5.77	0.00	0.00	0.00		-			86.70	6.72		91.30	3.13		-	
Fisher's	Power		---		Power-50%		---	P-value	0.655	Power	---			Power-50%		---	P-value	0.419	Power	---		Power-50%	---	P-value	0.050			
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power	---			Power-50%		---	P-value	0.404	Power	---		Power-50%	---	P-value	0.047			
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	3.13	3.13	4	56.25	19.70	-	-	0.025
1598C/1598	3	3	0.83	0.83	4	0.00	0.00	-	o	0.423	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	71.67	21.03	4	69.38	15.72	-	-	0.842
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	71.25	18.75	2	97.50	2.50	-	-	0.225
1650C/1650	3	6	0.00	0.00	0	--	--	--	---	---	6	0.83	0.83	0	--	--	--	---	---	6	66.67	15.12	0	--	--	--	---	---
Habitat Means			0.20	0.20	0.00	0.00	0.00		o			0.20	0.20	0.00	0.00	0.00		o			53.20	14.50		74.40	12.63		-	
Fisher's	Power		---		Power-50%		---	P-value	0.437	Power	---			Power-50%		---	P-value	0.655	Power	---		Power-50%	---	P-value	0.027			
Stouffer's	Power		---		Power-50%		---	P-value	0.221	Power	---			Power-50%		---	P-value	0.500	Power	0.347		Power-50%	0.418	P-value	0.434			

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.342, Page 3, December 15, 1994

Table C-5.343. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Coarse Textured. July 1991. Overstory removed July 1990.

Results of statistical differences between means of control and oiled site pairs. MVD = meter vortical 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	N	Algal Diversity Index (a)							Algal Taxa Richness (b)							Total Algae											
			C	SE	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	0.40	0.24	5	0.00	0.00	-	+	0.178	5	2.50	1.58	5	0.00	0.00	-	+	0.181
846C/846	1	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.40	0.24	-	-	0.178	3	0.00	0.00	5	2.00	1.46	-	-	0.198
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	1.25	1.25	2	0.00	0.00	-	+	0.363
Habitat Means			0.01	0.01	0.00	0.00	+				0.35	0.18	0.23	0.13	+					2.20	1.20	2.52	1.85	+				
Fisher's	Power	---		Power-50%	---	P-value	0.477	Power	0.192	Power-50%	0.371	P-value	0.185	Power	0.043	Power-50%	0.285	P-value	0.294	y								
Stouffer's	Power	---		Power-50%	---	P-value	0.498	Power	0.110	Power-50%	0.474	P-value	0.134	Power	0.025	Power-50%	0.385	P-value	0.134									
506C/506	2	5	0.00	0.00	4	0.05	0.05	-	-	0.391	5	0.20	0.20	4	0.75	0.48	-	-	0.287	5	2.00	2.00	4	8.75	7.18	-	-	0.363
1598C/1598	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.50	0.29	5	0.00	0.00	-	-	0.182	4	25.62	21.66	5	0.00	0.00	-	-	0.265
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	8.00	8.00	-	-	0.374
1650C/1650	2	6	0.08	0.08	1	0.00	--	-	-	---	6	0.50	0.50	1	0.00	--	-	-	---	6	3.33	3.33	1	0.00	--	-	-	---
Habitat Means			0.02	0.02	0.01	0.02	-				0.30	0.25	0.24	0.23	-					7.72	6.75	4.20	5.07	-				
Fisher's	Power	---		Power-50%	---	P-value	0.419	y	Power	0.063	Power-50%	0.000	P-value	0.283	y	Power	0.007	Power-50%	0.018	P-value	0.316	y						
Stouffer's	Power	---		Power-50%	---	P-value	0.498	Power	0.016	Power-50%	0.000	P-value	0.847	Power	0.002	Power-50%	0.022	P-value	0.791									
506C/506	3	5	0.22	0.10	3	0.31	0.38	-	-	0.658	5	2.20	0.58	3	3.00	1.15	-	-	0.512	5	38.00	16.96	3	51.67	22.42	-	-	0.719
1598C/1598	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	1.00	0.00	5	0.40	0.24	-	+	0.070	4	51.88	23.66	5	3.00	2.42	-	-	0.032
846C/846	3	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.50	0.50	3	0.33	0.33	-	+	0.789	2	2.50	2.50	3	33.33	33.33	-	-	0.589
1650C/1650	3	5	0.06	0.06	2	0.00	0.00	-	+	0.374	5	0.80	0.37	2	0.00	0.00	-	+	0.099	5	32.00	19.40	2	0.00	0.00	-	+	0.141
Habitat Means			0.07	0.04	0.08	0.05	+				1.13	0.36	0.93	0.43	+					31.10	15.65	22.00	14.53	+				
Fisher's	Power	0.006		Power-50%	0.047	P-value	0.545	y	Power	---	Power-50%	---	P-value	0.056	Power	---	Power-50%	---	P-value	0.057								
Stouffer's	Power	0.006		Power-50%	0.044	P-value	0.416	Power	---	Power-50%	---	P-value	0.016	Power	---	Power-50%	---	P-value	0.014									

(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.

Table C-5.343. Page 1. December 15, 1994

Site Pair	Mvd	N	Total Invertebrates							Rock							Perennials (P)											
			C	SE	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	7.50	5.95	-	-	0.228	6	95.00	1.94	4	84.38	9.04	-	+	0.481	6	3.75	2.02	4	8.13	5.90	-	-	0.625
1598C/1598	1	5	5.00	3.26	5	8.50	6.78	-	-	0.902	5	92.50	4.74	5	91.50	6.78	-	+	0.910	5	2.50	1.58	5	0.00	0.00	-	+	0.181
846C/846	1	3	0.00	0.00	5	2.00	1.46	-	-	0.198	3	95.83	3.00	5	96.00	1.50	-	-	0.887	3	0.00	0.00	5	2.00	1.46	-	-	0.198
1650C/1650	1	6	0.42	0.42	2	0.00	0.00	-	+	0.363	6	98.33	1.24	2	100.00	0.00	-	-	0.194	6	1.25	1.25	2	0.00	0.00	-	+	0.363
Habitat Means			1.35	0.93		4.50	3.58		-			95.40	2.70		92.98	4.33		-			1.90	1.23		2.52	1.85		+	
Fisher's	Power		0.068		Power-50%	0.019	P-value		0.204	Power	0.016	Power-50%	1.000	P-value	0.428	y	Power	0.023	Power-50%	0.250	P-value	0.328	y					
Stouffer's	Power		0.127		Power-50%	0.019	P-value		0.399	Power	0.004	Power-50%	1.000	P-value	0.403		Power	0.012	Power-50%	0.365	P-value	0.134						
506C/506	2	5	5.50	3.91	4	5.63	2.13	-	-	0.657	5	92.50	5.81	4	85.63	5.24	-	+	0.200	5	2.00	2.00	4	6.25	6.25	-	-	0.640
1598C/1598	2	4	13.75	7.25	5	2.50	2.50	-	-	0.057	4	60.63	18.58	5	97.50	2.50	-	-	0.024	4	25.62	21.66	5	0.00	0.00	-	-	0.265
846C/846	2	2	1.25	1.25	5	1.50	1.00	-	-	0.979	2	98.75	1.25	5	90.50	8.89	-	+	0.698	2	0.00	0.00	5	8.00	8.00	-	-	0.374
1650C/1650	2	6	7.92	2.77	1	0.00	--	-	-	---	6	88.75	2.87	1	100.00	--	-	---	6	0.83	0.83	1	0.00	--	-	-	-	---
Habitat Means			7.12	3.83		2.40	1.87		-			85.17	7.15		93.40	5.53		+			7.10	6.13		3.58	4.77		-	
Fisher's	Power		0.025		Power-50%	0.693	P-value		0.716	xy	Power	0.040	Power-50%	0.794	P-value	0.347	xy	Power	0.002	Power-50%	0.026	P-value	0.433	y				
Stouffer's	Power		0.009		Power-50%	0.692	P-value		0.965	Power	0.004	Power-50%	0.843	P-value	0.980		Power	0.001	Power-50%	0.034	P-value	0.792						
506C/506	3	5	9.50	7.76	3	0.83	0.83	-	+	0.475	5	49.00	14.63	3	47.50	21.84	-	+	0.994	5	9.00	3.22	3	31.67	18.28	-	-	0.147
1598C/1598	3	4	0.63	0.63	5	5.50	3.30	-	-	0.224	4	47.50	23.32	5	91.50	4.72	-	-	0.062	4	3.13	3.13	5	3.00	2.42	-	-	0.907
846C/846	3	2	25.00	15.00	3	13.33	6.82	-	+	0.480	2	72.50	17.50	3	53.33	26.71	-	+	0.588	2	0.00	0.00	3	0.00	0.00	-	o	1.000
1650C/1650	3	5	13.00	4.83	2	31.25	28.75	-	-	0.455	5	55.00	18.35	2	68.75	28.75	-	-	0.647	5	27.50	18.27	2	0.00	0.00	-	+	0.155
Habitat Means			12.03	7.05		12.73	9.92		-			56.00	18.45		65.28	20.50		-			9.90	6.15		8.68	5.18		+	
Fisher's	Power		0.051		Power-50%	0.303	P-value		0.393	Power	0.188	Power-50%	0.477	P-value	0.186	Power	0.011	Power-50%	0.052	P-value	0.411							
Stouffer's	Power		0.034		Power-50%	0.458	P-value		0.133	Power	---	Power-50%	---	P-value	0.045	Power	0.010	Power-50%	0.125	P-value	0.328							

x At least one site pair p-value < 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.343. Page 2. December 15, 1994



Table C-5.343. Aigal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Coarse Textured. July 1991. Overstory removed July 1990. (Continued.)

Site Pair	Mvd	N	Annuals (A)								Ephemerals (AE)																		
			C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	
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			0.33	0.33		0.00	0.00	-				0.20	0.20		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	0.498		Power	---		Power-50%		---	P-value	0.498		Power	---		Power-50%		---	P-value			
506C/506	2	5	0.00	0.00	4	2.50	1.44	-	-	0.182	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	2.50	2.50	1	0.00	-	-	+	---	6	1.25	1.25	1	0.00	-	-	+	---										
Habitat Means			0.63	0.63		0.63	0.47	-				0.33	0.33		0.00	0.00	-												
Fisher's	Power		0.000		Power-50%		---	P-value	0.271 y		Power	---		Power-50%		---	P-value	0.655 y		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	3	5	29.00	16.46	3	20.00	10.10	-	-	0.703	5	29.00	16.46	3	10.00	8.78	-	+	0.407										
1598C/1598	3	4	48.75	25.53	5	0.00	0.00	-	-	0.127	4	48.75	25.53	5	0.00	0.00	-	+	0.127										
846C/846	3	2	2.50	2.50	3	33.33	33.33	-	-	0.589	2	2.50	2.50	3	33.33	33.33	-	-	0.589										
1650C/1650	3	5	4.50	4.50	2	0.00	0.00	-	+	0.374	5	4.50	4.50	2	0.00	0.00	-	+	0.374										
Habitat Means			21.20	12.25		13.33	10.85	-				21.20	12.25		10.82	10.53	-												
Fisher's	Power		0.138		Power-50%		0.183	P-value	0.167		Power	0.142		Power-50%		0.173	P-value	0.120		Power	---		Power-50%		---	P-value			
Stouffer's	Power		---		Power-50%		---	P-value	0.068		Power	---		Power-50%		---	P-value	0.068		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-5.344. Algal Percent Cover. Chlorophyta. Prince William Sound. Coarse Textured. July 1991. Overstory removed 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	0.83	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	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			0.20	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		---		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	0.498		Power	---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---	P-value	0.500					
506C/506	2	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	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		0.33	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	5	25.00	14.12	3	11.67	8.21	-	+	0.520	5	1.00	1.00	3	1.67	0.83	-	-	0.428	5	1.00	1.00	3	1.67	0.83	-	-	0.428				
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			6.88	4.15		2.92	2.05	-				0.25	0.25		0.42	0.20	-				0.25	0.25		0.42	0.20	-						
Fisher's	Power		0.021		Power-50%		0.037	P-value	0.411		Power	0.000		Power-50%		---	P-value	0.511		Power	0.000		Power-50%		---	P-value	0.511					
Stouffer's	Power		0.024		Power-50%		0.040	P-value	0.425		Power	0.000		Power-50%		---	P-value	0.498		Power	0.000		Power-50%		---	P-value	0.498					

(a) Kormannia, Monostroma, Ulva and Ulvaria.

\* At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.344. Page 1. December 15, 1994

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	0.83	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	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			0.20	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		---		Power-50%		---	P-value	0.477		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	0.498		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	1.25	1.25	-	-	0.391	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	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		0.33	0.43	-				0.00	0.00		0.33	0.43	-				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		Power	---		Power-50%		---	P-value	0.655
Stouffer's	Power		---		Power-50%		---	P-value	0.498		Power	---		Power-50%		---	P-value	0.498		Power	---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---	P-value	0.500
506C/506	3	5	24.00	14.24	3	10.00	7.64	-	+	0.488	5	0.00	0.00	3	1.67	1.67	-	-	0.423	5	0.00	0.00	3	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			6.62	4.18		2.50	1.90	+				0.00	0.00		0.42	0.42	-				0.00	0.00		0.00	0.00	-	o									
Fisher's	Power		0.018		Power-50%		0.037	P-value	0.399		Power	---		Power-50%		---	P-value	0.508		Power	---		Power-50%		---	P-value	0.698		Power	---		Power-50%		---	P-value	0.698
Stouffer's	Power		0.017		Power-50%		0.038	P-value	0.425		Power	---		Power-50%		---	P-value	0.498		Power	---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---	P-value	0.500

Table C-5.344. Algal Percent Cover. Chlorophyta. Prince William Sound. Coarse Textured. July 1991. Overstory removed 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					
506C/506	1	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	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			0.20	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		---		Power-50%		---	P-value	0.477	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	0.498	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	-	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	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	Power			Power-50%		---	P-value	0.500
506C/506	3	5	24.00	14.24	3	8.33	8.33	-	+	0.359	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					
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			6.62	4.18		2.07	2.07		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o						
Fisher's	Power		0.039		Power-50%		0.028	P-value	0.344	Power	---		Power-50%		---	P-value	0.698	Power			Power-50%		---	P-value	0.698	Power			Power-50%		---	P-value	0.698
Stouffer's	Power		0.034		Power-50%		0.030	P-value	0.424	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-5.344. Page 3. December 15, 1

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	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	3	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		

(a) Canera 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-5.344. Page 4. December 15, 1994

Table C-5.345. Algal Percent Cover. Phaeophyta. Prince William Sound. Coarse Textured. July 1991. Overstory removed 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.

Site Pair	Total Phaeophyta										Morphological Group: Bladed Browns										Fucus cottonii (P)										
	Mvd	N	C	SE	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	3.75	2.02	4	8.13	5.90	-	-	0.625	6	3.75	2.02	4	8.13	5.90	-	-	0.625	6	0.00	0.00	4	0.00	0.00	-	o	1.000			
1598C/1598	1	5	2.50	1.58	5	0.00	0.00	-	+	0.181	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			
846C/846	1	3	0.00	0.00	5	2.00	1.46	-	-	0.198	3	0.00	0.00	5	2.00	1.46	-	-	0.198	3	0.00	0.00	5	0.00	0.00	-	o	1.000			
1650C/1650	1	6	1.25	1.25	2	0.00	0.00	-	+	0.363	6	1.25	1.25	2	0.00	0.00	-	+	0.363	6	0.00	0.00	2	0.00	0.00	-	o	1.000			
Habitat Means			1.90	1.23		2.52	1.85		+			1.90	1.23		2.52	1.85		+			0.00	0.00		0.00	0.00		o				
Fisher's	Power		0.027		Power-50%		0.238		P-value	0.328	y	Power		0.025		Power-50%		0.222		P-value	0.328	y	Power		---		Power-50%		---	P-value	0.698
Stouffer's	Power		0.013		Power-50%		0.368		P-value	0.134		Power		0.012		Power-50%		0.336		P-value	0.134		Power		---		Power-50%		---	P-value	0.500
506C/506	2	5	2.00	2.00	4	6.25	6.25	-	-	0.640	5	2.00	2.00	4	6.25	6.25	-	-	0.640	5	0.00	0.00	4	0.00	0.00	-	o	1.000			
1598C/1598	2	4	3.13	3.13	5	0.00	0.00	-	+	0.391	4	3.13	3.13	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	8.00	8.00	-	-	0.374	2	0.00	0.00	5	8.00	8.00	-	-	0.374	2	0.00	0.00	5	0.00	0.00	-	o	1.000			
1650C/1650	2	6	2.08	2.08	1	0.00	--	-	+	---	6	0.83	0.83	1	0.00	--	-	+	---	6	0.00	0.00	1	0.00	0.00	-	o	---			
Habitat Means			1.80	1.80		3.58	4.77		-			1.48	1.48		3.58	4.77		-			0.00	0.00		0.00	0.00		o				
Fisher's	Power		---		Power-50%		---		P-value	0.416		Power		---		Power-50%		---	P-value	0.416		Power		---		Power-50%		---	P-value	0.655	
Stouffer's	Power		---		Power-50%		---		P-value	0.715		Power		---		Power-50%		---	P-value	0.715		Power		---		Power-50%		---	P-value	0.500	
506C/506	3	5	13.00	4.83	3	31.67	18.28	-	-	0.257	5	9.00	3.22	3	31.67	18.28	-	-	0.147	5	0.00	0.00	3	0.00	0.00	-	o	1.000			
1598C/1598	3	4	51.88	23.66	5	3.00	2.42	-	+	0.032	4	3.13	3.13	5	3.00	2.42	-	+	0.907	4	0.00	0.00	5	0.00	0.00	-	o	1.000			
846C/846	3	2	0.00	0.00	3	33.33	33.33	-	-	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			
1650C/1650	3	5	13.00	11.79	2	0.00	0.00	-	+	0.265	5	8.50	7.31	2	0.00	0.00	-	+	0.240	5	0.00	0.00	2	0.00	0.00	-	o	1.000			
Habitat Means			19.48	10.08		17.00	13.50		-			5.15	3.40		8.68	5.18		+			0.00	0.00		0.00	0.00		o				
Fisher's	Power		0.198		Power-50%		0.272		P-value	0.111		Power		0.003		Power-50%		0.075		P-value	0.498	y	Power		---		Power-50%		---	P-value	0.698
Stouffer's	Power		---		Power-50%		---		P-value	0.021		Power		0.009		Power-50%		0.173		P-value	0.350		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-5.345. Page 1. December 15, 1994

Total <i>Fucus gardneri</i> (P)											Adult <i>Fucus gardneri</i> (P) (> 2cm)											Juvenile <i>Fucus gardneri</i> (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	3.75	2.02	4	8.13	5.90	-	-	0.625	6	3.75	2.02	4	8.13	5.90	-	-	0.625	6	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000			
1598C/1598	1	5	2.50	1.58	5	0.00	0.00	-	+	0.181	5	2.50	1.58	5	0.00	0.00	-	+	0.181	5	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000			
846C/846	1	3	0.00	0.00	5	2.00	1.46	-	-	0.198	3	0.00	0.00	5	2.00	1.46	-	-	0.198	3	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000			
1650C/1650	1	6	1.25	1.25	2	0.00	0.00	-	+	0.363	6	1.25	1.25	2	0.00	0.00	-	+	0.363	6	0.00	0.00	2	0.00	0.00	0.00	-	o	1.000			
Habitat Means			1.90	1.23		2.52	1.85		+			1.90	1.23		2.52	1.85		+			0.00	0.00		0.00	0.00	0.00		o				
Fisher's	Power		0.024		Power-50%		0.266		P-value	0.328	y	Power		0.025		Power-50%		0.248		P-value	0.328	y	Power		---		Power-50%		---	P-value	0.698	
Stouffer's	Power		0.012		Power-50%		0.393		P-value	0.134		Power		0.012		Power-50%		0.363		P-value	0.134		Power		---		Power-50%		---	P-value	0.500	
506C/506	2	5	2.00	2.00	4	6.25	6.25	-	-	0.640	5	2.00	2.00	4	6.25	6.25	-	-	0.640	5	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000			
1598C/1598	2	4	3.13	3.13	5	0.00	0.00	-	+	0.391	4	3.13	3.13	5	0.00	0.00	-	+	0.391	4	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000			
846C/846	2	2	0.00	0.00	5	8.00	8.00	-	-	0.374	2	0.00	0.00	5	8.00	8.00	-	-	0.374	2	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000			
1650C/1650	2	6	0.83	0.83	1	0.00	0.00	-	+	---	6	0.83	0.83	1	0.00	0.00	-	+	---	6	0.00	0.00	1	0.00	0.00	0.00	-	o	---			
Habitat Means			1.48	1.48		3.58	4.77		-			1.48	1.48		3.58	4.77		-			0.00	0.00		0.00	0.00	0.00		o				
Fisher's	Power		---		Power-50%		---		P-value	0.416		Power		---		Power-50%		---	P-value	0.416		Power		---		Power-50%		---	P-value	0.655		
Stouffer's	Power		---		Power-50%		---		P-value	0.715		Power		---		Power-50%		---	P-value	0.715		Power		---		Power-50%		---	P-value	0.500		
506C/506	3	5	9.00	3.22	3	31.67	18.28	-	-	0.147	5	9.00	3.22	3	31.67	18.28	-	-	0.147	5	0.00	0.00	3	0.00	0.00	0.00	-	o	1.000			
1598C/1598	3	4	3.13	3.13	5	3.00	2.42	-	+	0.907	4	3.13	3.13	5	3.00	2.42	-	+	0.907	4	0.00	0.00	5	0.00	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	0.00	-	o	1.000			
1650C/1650	3	5	8.50	7.31	2	0.00	0.00	-	+	0.240	5	8.50	7.31	2	0.00	0.00	-	+	0.240	5	0.00	0.00	2	0.00	0.00	0.00	-	o	1.000			
Habitat Means			5.15	3.40		8.68	5.18		+			5.15	3.40		8.68	5.18		+			0.00	0.00		0.00	0.00	0.00		o				
Fisher's	Power		0.005		Power-50%		0.071		P-value	0.498	y	Power		0.003		Power-50%		0.067		P-value	0.498	y	Power		---		Power-50%		---	P-value	0.698	
Stouffer's	Power		0.009		Power-50%		0.164		P-value	0.350		Power		0.007		Power-50%		0.176		P-value	0.350		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-5.345. Page 2. December 15, 1994

Table C-5.345. Algal Percent Cover. Phaeophyta. Prince William Sound. Coarse Textured. July 1991. Overstory removed July 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	6	0.00	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	Power	---		Power-50%
Stouffer's	Power		---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%
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	Power	---		Power-50%
Stouffer's	Power		---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%
506C/506	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	
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	Power	---		Power-50%
Stouffer's	Power		---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%

(a) Dead fucus plants or stipes without algal cover.

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

Table C-5.345. Page 3. December 15, 1994

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	Power	---		Power-50%
Stouffer's	Power		---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%
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	1.25	1.25	1	0.00	--	-	o	---	6	1.25	1.25	1	0.00	--	-	o	---	
Habitat Means			0.00	0.00		0.00	0.00		o			0.33	0.33		0.00	0.00		o			0.33	0.33		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	Power	---		Power-50%
Stouffer's	Power		---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%
506C/506	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	4.00	2.57	3	0.00	0.00	-	+	0.183	5	4.00	2.57	3	0.00	0.00	-	+	0.183	
1598C/1598	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	48.75	25.53	5	0.00	0.00	-	+	0.127	4	48.75	25.53	5	0.00	0.00	-	+	0.127	
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	0.00	0.00	2	0.00	0.00	-	o	1.000	5	4.50	4.50	2	0.00	0.00	-	+	0.374	5	4.50	4.50	2	0.00	0.00	-	+	0.374	
Habitat Means			0.00	0.00		0.00	0.00		o			14.33	8.15		8.33	8.33		+			14.33	8.15		8.33	8.33		+		
Fisher's	Power		---		Power-50%	---	P-value		0.698	Power	---		Power-50%	---	P-value		0.078	Power	---		Power-50%	---	P-value		0.078	Power	---		Power-50%
Stouffer's	Power		---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.077	Power	---		Power-50%	---	P-value		0.077	Power	---		Power-50%

(b) Unidentified fine filamentous.

(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-5.345. Page 4. December 15, 1994

Table C-5.346. Algal Percent Cover. Rhodophyta. Prince William Sound. Coarse Textured. July 1991. Overstory removed 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	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	3	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			0.10	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		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		Power	---		Power-50%		---	P-value	0.500
506C/506	2	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	5	0.00	0.00	4	0.00	0.00	-	o	1.000								
1598C/1598	2	4	22.50	22.50	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								
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	1.25	1.25	1	0.00	--	-	+	---	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---								
Habitat Means			5.95	5.95		0.33	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	0.533	y	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	0.793		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	3	8.33	8.33	-	-	0.423	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								
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	19.00	19.00	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			4.75	4.75		2.07	2.07		+			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	0.580		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	0.416		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.

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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		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		Power	---		Power-50%		---	P-value	0.500
506C/506	2	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	5	0.00	0.00	4	1.25	1.25	~	-	0.391								
1598C/1598	2	4	22.50	22.50	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								
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	1.25	1.25	1	0.00	--	-	+	---	6	0.00	0.00	1	0.00	--	-	o	---	6	1.25	1.25	1	0.00	--	-	+	---								
Habitat Means			5.95	5.95		0.33	0.43		-			0.00	0.00		0.00	0.00		o			0.33	0.33		0.33	0.43		-									
Fisher's	Power		---		Power-50%		---	P-value	0.533	y	Power	---		Power-50%		---	P-value	0.655		Power	---		Power-50%		---	P-value	0.419	y								
Stouffer's	Power		---		Power-50%		---	P-value	0.793		Power	---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---	P-value	0.498									
506C/506	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								
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	19.00	19.00	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			4.75	4.75		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		Power	---		Power-50%		---	P-value	0.698
Stouffer's	Power		---		Power-50%		---	P-value	0.415		Power	---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---	P-value	0.500

Table C-5.346. Algal Percent Cover. Rhodophyta. Prince William Sound. Coarse Textured. July 1991. Overstory removed 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	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				
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			0.10	0.10		0.00	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	0.498						
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	22.50	22.50	5	0.00	0.00	-	o	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		5.62	5.62		0.00	0.00	0.00		+			0.00	0.00		0.00	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	0.655						
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	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	4.17	4.17	-	-	0.423				
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	19.00	19.00	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		4.75	4.75		0.00	0.00	0.00		+			0.00	0.00		1.05	1.05		-					
Fisher's	Power		---		Power-50%	---	P-value	0.698			Power	---		Power-50%	---	P-value	0.483			Power	---		Power-50%	---	P-value	0.508						
Stouffer's	Power		---		Power-50%	---	P-value	0.500			Power	---		Power-50%	---	P-value	0.415			Power	---		Power-50%	---	P-value	0.498						

(a) Genera not separated.

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

Table C-5.346. Page 3. December 15, 1994

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	0.42	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
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			0.10	0.10	0.00	0.00	0.00	-				0.00	0.00	0.00	0.00	0.00	-	o			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	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	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	0.00	-	o			0.00	0.00	0.00	0.00	0.00	-	o			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	0.655			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	3	4.17	4.17	-	-	0.423	5	0.00	0.00	3	4.17	4.17	-	-	0.423	5	0.00	0.00	3	4.17	4.17	-	-	0.423
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	1.05	1.05	1.05	-	-			0.00	0.00	1.05	1.05	1.05	-	-			0.00	0.00	1.05	1.05	1.05	-	-	
Fisher's	Power		---		Power-50%	---	P-value	0.508			Power	---		Power-50%	---	P-value	0.508			Power	---		Power-50%	---	P-value	0.508		
Stouffer's	Power		---		Power-50%	---	P-value	0.498			Power	---		Power-50%	---	P-value	0.498			Power	---		Power-50%	---	P-value	0.498		

(a) Genera not separated.

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

Table C-5.346. Page 4. December 15, 1994

**Table C-5.347. Algal Percent Cover, Invertebrates, Prince William Sound, Coarse Textured, July 1991. Overstory removed 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	5.00	3.54	-	-	0.205	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	2.50	2.50	-	-	0.391
1598C/1598	1	5	5.00	3.26	5	6.00	4.37	-	-	0.947	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	2.50	2.50	-	-	0.374
846C/846	1	3	0.00	0.00	5	2.00	1.46	-	-	0.198	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	0.42	0.42	2	0.00	0.00	-	+	0.363	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			1.35	0.93		3.25	2.35		-			0.00	0.00		0.00	0.00		o			0.00	0.00		1.25	1.25		-	
Fisher's	Power		0.090		Power-50%	0.015	P-value			0.198	Power	---		Power-50%	---	P-value			0.698	Power	---		Power-50%	---	P-value			0.310
Stouffer's	Power		0.113		Power-50%	0.021	P-value			0.420	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.203
506C/506	2	5	5.00	3.45	4	3.75	2.17	-	+	0.981	5	0.50	0.50	4	0.63	0.63	-	-	0.879	5	0.00	0.00	4	1.25	1.25	-	-	0.391
1598C/1598	2	4	13.13	7.59	5	1.00	1.00	-	+	0.073	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.63	0.63	5	1.50	1.50	-	-	0.832
846C/846	2	2	1.25	1.25	5	1.50	1.00	-	-	0.979	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	7.92	2.77	1	0.00	---	-	-	---	6	0.00	0.00	1	0.00	---	-	o	---	6	0.00	0.00	1	0.00	---	-	o	---
Habitat Means			6.83	3.80		1.57	1.40		-			0.13	0.13		0.15	0.20		-			0.15	0.15		0.70	0.93		-	
Fisher's	Power		0.304		Power-50%	0.450	P-value			0.153	Power	---		Power-50%	---	P-value			0.620	Power	---		Power-50%	---	P-value			0.380
Stouffer's	Power		---		Power-50%	---	P-value			0.044	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.418
506C/506	3	5	9.00	7.27	3	0.00	0.00	-	+	0.222	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.50	0.50	3	0.83	0.83	-	-	0.725
1598C/1598	3	4	0.63	0.63	5	5.50	3.30	-	-	0.224	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	25.00	15.00	3	13.33	6.82	-	+	0.480	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	13.00	4.83	2	31.25	28.75	-	-	0.455	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			11.90	6.93		12.53	9.73		-			0.00	0.00		0.00	0.00		o			0.13	0.13		0.20	0.20		-	
Fisher's	Power		0.038		Power-50%	0.293	P-value			0.433 y	Power	---		Power-50%	---	P-value			0.698	Power	---		Power-50%	---	P-value			0.626
Stouffer's	Power		0.026		Power-50%	0.459	P-value			0.867	Power	---		Power-50%	---	P-value			0.500	Power	---		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.

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		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	3	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-5.347, Page 2, December 15, 1994



Table C-5.348. Algal Percent Cover. Substrates. Prince William Sound. Coarse Textured. July 1991. Overstory removed 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.

Site Pair	Mvd	N	Rock								Oiled Rock								Mud										
			C	SE	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	95.00	1.94	4	84.38	9.04	-	+	0.481	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000
1598C/1598	1	5	92.50	4.74	5	91.50	6.78	-	+	0.910	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
846C/846	1	3	95.83	3.00	5	96.00	1.50	-	-	0.887	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
1650C/1650	1	6	98.33	1.24	2	100.00	0.00	-	-	0.194	6	0.00	0.00	2	0.00	0.00	-	o	1.000	6	0.00	0.00	2	0.00	0.00	0.00	-	o	1.000
Habitat Means			95.40	2.70		92.98	4.33	-				0.00	0.00		0.00	0.00	-	o			0.00	0.00		0.00	0.00	0.00	-	o	
Fisher's	Power		0.020		Power-50%	1.000	P-value		0.428	y	Power	---		Power-50%	---	P-value		0.698		Power	---		Power-50%	---	P-value		0.698		
Stouffer's	Power		0.007		Power-50%	1.000	P-value		0.403		Power	---		Power-50%	---	P-value		0.500		Power	---		Power-50%	---	P-value		0.500		
506C/506	2	5	92.50	5.81	4	85.63	5.24	-	-	0.200	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000
1598C/1598	2	4	60.63	18.58	5	97.50	2.50	-	-	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	0.00	-	o	1.000
846C/846	2	2	98.75	1.25	5	90.50	8.89	-	+	0.698	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
1650C/1650	2	6	88.75	2.87	1	100.00	-	-	-	---	6	0.00	0.00	1	0.00	-	-	o	---	6	0.00	0.00	1	0.00	-	-	o	---	
Habitat Means			85.17	7.15		93.40	5.53	-	+			0.00	0.00		0.00	0.00	-	o			0.00	0.00		0.00	0.00	0.00	-	o	
Fisher's	Power		0.041		Power-50%	0.784	P-value		0.347	xy	Power	---		Power-50%	---	P-value		0.655		Power	---		Power-50%	---	P-value		0.655		
Stouffer's	Power		0.005		Power-50%	0.825	P-value		0.980		Power	---		Power-50%	---	P-value		0.500		Power	---		Power-50%	---	P-value		0.500		
506C/506	3	5	49.00	14.63	3	47.50	21.84	-	-	0.994	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	0.00	-	o	1.000
1598C/1598	3	4	47.50	23.32	5	91.50	4.72	-	-	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	0.00	-	o	1.000
846C/846	3	2	72.50	17.50	3	53.33	26.71	-	+	0.588	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	0.00	0.00	-	o	1.000
1650C/1650	3	5	55.00	18.35	2	68.75	28.75	-	-	0.647	5	0.00	0.00	2	0.00	0.00	-	o	1.000	5	0.00	0.00	2	0.00	0.00	0.00	-	o	1.000
Habitat Means			56.00	18.45		65.28	20.50	-				0.00	0.00		0.00	0.00	-	o			0.00	0.00		0.00	0.00	0.00	-	o	
Fisher's	Power		0.183		Power-50%	0.446	P-value		0.186		Power	---		Power-50%	---	P-value		0.698		Power	---		Power-50%	---	P-value		0.698		
Stouffer's	Power		---		Power-50%	---	P-value		0.045		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-5.348. Page 1. December 15, 1994

Site Pair	Mvd	N	Sand							Shell Fragments							Water												
			C	SE	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	---		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	---		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	---		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	---		P-value	0.500
506C/506	3	5	3.50	3.50	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	
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			0.88	0.88		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	---		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	---		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-5.348. Page 2. December 15, 1994

Table C-5.348. Algal Percent Cover. Substrates. Prince William Sound. Coarse Textured. July 1991. Overstory removed July 1990. (Continued.)

Site Pair	Mvd	Zostera/Phyllospadix								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
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	95.00	1.94	4	84.38	9.04	-	+	0.481
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	92.50	4.74	5	91.50	6.78	-	-	0.910
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	95.83	3.00	5	96.00	1.50	-	-	0.887
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	98.33	1.24	2	100.00	0.00	-	-	0.194
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			95.40	2.70		92.98	4.33		-	
Fisher's	Power		---		Power-50%		---	P-value	0.698	Power	---		Power-50%		---	P-value	0.698	Power	0.021		Power-50%	1.000	P-value	0.428	y			
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value	0.500	Power	0.007		Power-50%	1.000	P-value	0.403				
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	92.50	5.81	4	85.63	5.24	-	-	0.200
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	60.63	18.58	5	97.50	2.50	-	-	0.024
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	98.75	1.25	5	90.50	8.89	-	+	0.698
1650C/1650	2	6	0.00	0.00	1	0.00	---	-	o	---	6	0.00	0.00	1	0.00	---	-	o	---	6	88.75	2.87	1	100.00	---	-	-	---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			85.17	7.15		93.40	5.53		+	
Fisher's	Power		---		Power-50%		---	P-value	0.655	Power	---		Power-50%		---	P-value	0.655	Power	0.036		Power-50%	0.786	P-value	0.347	xv			
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value	0.500	Power	0.003		Power-50%	0.825	P-value	0.980				
506C/506	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	3.50	3.50	3	0.00	0.00	-	+	0.374	5	52.50	16.22	3	47.50	21.84	-	-	0.910
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	47.50	23.32	5	91.50	4.72	-	-	0.062
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	72.50	17.50	3	53.33	26.71	-	-	0.588
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	55.00	18.35	2	68.75	28.75	-	-	0.647
Habitat Means			0.00	0.00		0.00	0.00		o			0.88	0.88		0.00	0.00		+			56.88	18.85		65.28	20.50		-	
Fisher's	Power		---		Power-50%		---	P-value	0.698	Power	---		Power-50%		---	P-value	0.483	Power	0.170		Power-50%	0.450	P-value	0.195				
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value	0.498	Power	---		Power-50%	---	P-value	0.045				

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

Table C 5.348, Page 3, December 15, 1994

**Table C-5.349. Algal Percent Cover, Totals and Seasonal Groups, Prince William Sound, Estuarine, June 1991, Overstory removed 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.

Site Pair	Mvd	N	Algal Diversity Index (a)								Algal Taxa Richness (b)								Total Algae									
			C	SE	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	0.40	0.24	0	--	--	-	---	---	5	10.00	8.25	0	--	--	-	---	---
2397C/20809	1	6	0.12	0.08	4	0.00	0.00	-	+	0.188	6	1.33	0.61	4	0.00	0.00	-	+	0.082	6	27.92	15.10	4	0.00	0.00	-	+	0.077
Habitat Means			0.06	0.04		0.00	0.00		+			0.87	0.43		0.00	0.00		+			18.95	11.70		0.00	0.00			
Fisher's			---	---		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	2	0.00	0.00	0	--	--	-	---	---	2	0.50	0.50	0	--	--	-	---	---	2	3.75	3.75	0	--	--	-	---	---
2397C/20809	2	2	0.13	0.13	6	0.05	0.05	-	+	0.474	2	1.50	0.50	6	0.50	0.34	-	+	0.184	2	55.00	12.50	6	4.58	2.92	-	+	0.004
Habitat Means			0.07	0.07		0.05	0.05					1.00	0.50		0.50	0.34					29.40	8.15		4.60	2.90		+	
Fisher's			---	---		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	0.25	0.13	3	0.10	0.10	-	+	0.410	3	2.33	1.20	3	1.00	0.58	-	+	0.374	3	65.00	32.53	3	8.33	6.01	-	-	0.218
Habitat Means			0.26	0.14		0.10	0.10		+			2.33	1.20		1.00	0.58		+			65.00	32.50		8.30	6.00		-	
Fisher's			---	---		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.

Table C-5.349, Page 1, December 15, 1994

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	--	-	--	--	-	SE	--	-	-
2397C/20809	1	6	17.72	14.58	4	0.00	0.00	-	+	0.168	6	44.80	17.33	4	100.00	0.00	-	-	0.017	6	22.08	15.46	4	0.00	0.00	-	-	0.122
Habitat Means			8.85	7.30		0.00	0.00		+			41.15	16.45		100.00	0.00		-			16.05	11.90		0.00	0.00			
Fisher's			---	---		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	2	0.00	0.00	0	--	--	-	---	---	2	0.00	0.00	0	--	--	-	---	---	2	3.75	3.75	0	--	--	-	---	---
2397C/20809	2	2	0.00	0.00	6	0.00	0.00	-	o	1.000	2	45.00	12.50	6	95.42	2.92	-	-	0.004	2	48.75	18.75	6	3.75	2.56	-	+	0.006
Habitat Means			0.00	0.00		0.00	0.00		o			22.50	6.25		95.40	2.90		-			26.30	11.30		3.80	2.60		+	
Fisher's			---	---		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	2.50	2.50	3	2.50	1.44	-	o	0.771	3	31.67	30.43	3	89.17	4.64	-	-	0.138	3	3.33	1.67	3	1.67	1.67	-	-	0.519
Habitat Means			2.50	2.50		2.50	1.40		o			31.70	30.40		89.20	4.60		-			3.30	1.70		1.70	1.70		-	
Fisher's			---	---		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-5.349, Page 2, December 15, 1994

Table C-5.349. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Estuarine. June 1991. Overstory removed June 1990. (Continued.)

Site Pair	Mvd	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			
P15.1C/P15.1	1	5	0.00	0.00	0	--	--	-	---		5	0.00	0.00	0	--	--	-	---													
2397C/20809	1	6	5.83	4.17	4	0.00	0.00	-	+	0.190	6	5.83	4.17	4	0.00	0.00	-	+	0.190												
Habitat Means			2.90	2.10		0.00	0.00		+			2.90	2.10		0.00	0.00															
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	---			
P15.1C/P15.1	2	2	0.00	0.00	0	--	--	-	---		2	0.00	0.00	0	--	--	-	---													
2397C/20809	2	2	6.25	6.25	6	0.83	0.83	-	-	0.239	2	6.25	6.25	6	0.00	0.00	-	+	0.500												
Habitat Means			3.15	3.15		0.80	0.80		-			3.15	3.15		0.00	0.00		+													
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	---			
P15.1C/P15.1	3	0	--	--	0	--	--	-	---		0	--	--	0	--	--	-	---													
2397C/20809	3	3	61.67	30.87	3	6.67	6.67	-	+	0.198	3	61.67	30.87	3	6.67	6.67	-	+	0.198												
Habitat Means			61.70	30.90		6.70	6.70		+			61.70	30.90		6.70	6.70		+													
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	---			

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

Table C-5.349. Page 3. December 15, 1994

Table C-5.350. Algal Percent Cover. Chlorophyta. Prince William Sound. Estuarine. June 1991. Overstory removed 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 (AB) (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	2.50	1.71	4	0.00	0.00	-	-	0.183	6	2.08	1.64	4	0.00	0.00	-	+	0.204	6	2.08	1.64	4	0.00	0.00	-	+	0.204				
Habitat Means			1.25	0.85	0.00	0.00	0.00		+			1.05	0.80	0.00	0.00	0.00		+			1.05	0.80	0.00	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	---		z	Power	---		Power-50%	---	P-value	---		z	Power	---		Power-50%	---	P-value	---		z				
P15.1C/P15.1	2	2	0.00	0.00	0	--	--	-	---	---	2	0.00	0.00	0	--	--	-	---	---	2	0.00	0.00	0	--	--	-	---	---				
2397C/20809	2	2	0.00	0.00	6	0.00	0.00	-	o	1.000	2	0.00	0.00	6	0.00	0.00	-	o	1.000	2	0.00	0.00	6	0.00	0.00	-	o	1.000				
Habitat Means			0.00	0.00	0.00	0.00	0.00		o			0.00	0.00	0.00	0.00	0.00		o			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	---		z	Power	---		Power-50%	---	P-value	---		z	Power	---		Power-50%	---	P-value	---		z				
P15.1C/P15.1	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---				
2397C/20809	3	3	30.83	21.62	3	3.33	3.33	-	+	0.285	3	26.67	17.64	3	3.33	3.33	-	+	0.284	3	26.67	17.64	3	3.33	3.33	-	+	0.284				
Habitat Means			30.80	21.60	3.30	3.30	3.30		+			26.70	17.60	3.30	3.30	3.30		+			26.70	17.60	3.30	3.30	3.30		+					
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	---		z	Power	---		Power-50%	---	P-value	---		z	Power	---		Power-50%	---	P-value	---		z				

(a) Kormannia, Monostroma, Ulva and Ulvaria.

\* At least one site pair p-value &lt; 0.100 in 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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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	0.00		o			0.00	0.00	0.00	0.00	0.00		o			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	---		z	Power	---		Power-50%	---	P-value	---		z	Power	---		Power-50%	---	P-value	---		z
P15.1C/P15.1	2	2	0.00	0.00	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---
2397C/20809	2	2	0.00	0.00	6	0.00	0.00	-	o	1.000	2	0.00	0.00	6	0.00	0.00	-	o	1.000	2	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00	0.00	0.00	0.00		o			0.00	0.00	0.00	0.00	0.00		o			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	---		z	Power	---		Power-50%	---	P-value	---		z	Power	---		Power-50%	---	P-value	---		z
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	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	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			4.20	4.20	0.00	0.00	0.00		+			0.00	0.00	0.00	0.00	0.00		o			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	---		z	Power	---		Power-50%	---	P-value	---		z	Power	---		Power-50%	---	P-value	---		z

(a) Genera not separated.

\* At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.350. Page 2, December 15, 1994

Table C-5.350. Algal Percent Cover. Chlorophyta. Prince William Sound. Estuarine. June 1991. Overstory removed June 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	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	0.42	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			0.20	0.20		0.00	0.00		+			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	---		
P15.1C/P15.1	2	2	0.00	0.00	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---
2397C/20809	2	2	0.00	0.00	6	0.00	0.00	-	o	1.000	2	0.00	0.00	6	0.00	0.00	-	o	1.000	2	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	4.17	4.17	3	0.00	0.00	-	+	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
Habitat Means			4.20	4.20		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		---		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 5.350, Page 3, December 15, 1994

Table C-5.351. Algal Percent Cover. Phaeophyta. Prince William Sound, Estuarine. June 1991. Overstory removed 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	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	O	SE	CV	D	P		
P15.1C/P15.1	1	3	10.00	0.25	0	--	--	-	---	---	3	10.00	0.25	0	--	--	-	---	---	3	10.00	0.25	0	--	--	-	---	---	3	10.00	0.25	0	--	--	-	---
2397C/20809	1	6	25.42	15.08	4	0.00	0.00	-	+	0.088	6	22.08	15.46	4	0.00	0.00	-	+	0.122	6	0.00	0.00	4	0.00	0.00	-	o	0.00	0.00	4	0.00	0.00	-	o		
Habitat Means			17.70	11.70		0.00	0.00		+			16.05	11.90		0.00	0.00		-			0.75	0.75		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	Power	---		Power-50%	---		P-value
Stouffer's			Power	---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value
P15.1C/P15.1	2	2	3.75	3.75	0	--	--	-	---	---	2	3.75	3.75	0	--	--	-	---	---	2	0.00	0.00	0	--	--	-	---	---	2	0.00	0.00	0	--	--	-	---
2397C/20809	2	2	55.00	12.50	6	1.25	1.25	-	+	0.000	2	48.75	18.75	6	1.25	1.25	-	+	0.001	2	0.00	0.00	6	0.00	0.00	-	o	0.00	0.00	6	0.00	0.00	-	o		
Habitat Means			29.40	8.15		1.30	1.30		+			26.30	11.30		1.30	1.30		+			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	---	z	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	---		Power	---		Power-50%	---		P-value
P15.1C/P15.1	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---
2397C/20809	3	3	32.50	22.22	3	5.00	2.89	-	o	0.355	3	1.67	1.67	3	1.67	1.67	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	0.00	0.00	3	0.00	0.00	-	o		
Habitat Means			32.50	22.20		5.00	2.90		+			1.70	1.70		1.70	1.70		o			0.00	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	Power	---		Power-50%	---		P-value
Stouffer's			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-5.351. Page 1. December 15, 1994

Total <i>Fucus gardneri</i> (P)											Adult <i>Fucus gardneri</i> (P) (> 2cm)											Juvenile <i>Fucus gardneri</i> (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	N	O	SE	CV	D	P			
2397C/20809	1	6	22.08	15.46	4	0.00	0.00	-	+			6	22.08	15.46	4	0.00	0.00	-	+			6	0.00	0.00	4	0.00	0.00	-	o	1.000								
Habitat Means			15.30	12.00		0.00	0.00		+				15.30	12.00		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	---		P-value	---	z	Power	---		Power-50%	---	P-value	---		P-value	---	z	Power	---		Power-50%	---	P-value
Stouffer's		Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---		P-value	---		Power	---		Power-50%	---	P-value	---		P-value	---		Power	---		Power-50%	---	P-value
P15.1C/P15.1	2	2	3.75	3.75	0	--	--	-	-			2	3.75	3.75	0	--	--	-	-			2	0.00	0.00	0	--	--	-	-			2	0.00	0.00	0	--	--	
2397C/20809	2	2	48.75	18.75	6	1.25	1.25	-	+			2	47.50	20.00	6	1.25	1.25	-	+			2	1.25	1.25	6	0.00	0.00	-	o	0.500								
Habitat Means			26.30	11.30		1.30	1.30		+				25.65	11.90		1.30	1.30		+				0.65	0.65		0.00	0.00		o									
Fisher's		Power	---		Power-50%	---	P-value	---		z	Power	---		Power-50%	---	P-value	---		P-value	---	z	Power	---		Power-50%	---	P-value	---		P-value	---	z	Power	---		Power-50%	---	P-value
Stouffer's		Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---		P-value	---		Power	---		Power-50%	---	P-value	---		P-value	---		Power	---		Power-50%	---	P-value
P15.1C/P15.1	3	0	--	--	0	--	--	-	-			0	--	--	0	--	--	-	-			0	--	--	0	--	--	-	-			0	--	--	0	--	--	
2397C/20809	3	3	1.67	1.67	3	1.67	1.67	-	o			3	1.67	1.67	3	1.67	1.67	-	o			3	0.00	0.00	3	0.00	0.00	-	o	1.000								
Habitat Means			1.70	1.70		1.70	1.70		o				1.70	1.70		1.70	1.70		o				0.00	0.00		0.00	0.00		o									
Fisher's		Power	---		Power-50%	---	P-value	---		z	Power	---		Power-50%	---	P-value	---		P-value	---	z	Power	---		Power-50%	---	P-value	---		P-value	---	z	Power	---		Power-50%	---	P-value
Stouffer's		Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---		P-value	---		Power	---		Power-50%	---	P-value	---		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-5.351. Page 2. December 15, 1994

Table C-5.351. Algal Percent Cover. Phaeophyta. Prince William Sound. Estuarine. June 1991. Overstory removed 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
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	---		---	Power	---		Power-50%	---	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	2	0.00	0.00	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---	2	0.00	0.00	0	--	--	-		---
2397C/20809	2	2	0.00	0.00	6	0.00	0.00	-	o	1.000	2	0.00	0.00	6	0.00	0.00	-	o	1.000	2	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	---		---	Power	---		Power-50%	---	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	--	--	-		---	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	---		---	Power	---		Power-50%	---	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 5.351. Page 3. December 15, 1994

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	5	0.00	0.00	0	--	--	--	--	---	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	3.33	3.33	4	0.00	0.00	--	+	0.363	6	3.33	3.33	4	0.00	0.00	--	+	0.363	6	3.33	3.33	4	0.00	0.00	--	+	0.363
Habitat Means		0.00	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	--	+			1.65	1.65	0.00	0.00	--	+			
Fisher's	Power	---		Power-50%	---	P-value	---	---	---	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	---	---	---	Power	---		Power-50%	---	P-value	---	---	---
P15.1C/P15.1	2 2	0.00	0.00	0	--	--	--	--	---	2	0.00	0.00	0	--	--	--	--	---	2	0.00	0.00	0	--	--	--	--	---	2	0.00	0.00	0	--	--	--	---	
2397C/20809	2 2	0.00	0.00	6	0.00	0.00	--	o	1.000	2	6.25	6.25	6	0.00	0.00	--	-	0.500	2	6.25	6.25	6	0.00	0.00	--	-	0.500	2	6.25	6.25	6	0.00	0.00	--	-	0.500
Habitat Means		0.00	0.00	0.00	0.00	0.00	--	o			3.15	3.15	0.00	0.00	--	-				3.15	3.15	0.00	0.00	--	-			3.15	3.15	0.00	0.00	--	-			
Fisher's	Power	---		Power-50%	---	P-value	---	---	---	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	---	---	---	Power	---		Power-50%	---	P-value	---	---	---
P15.1C/P15.1	3 0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	--	---	0	--	--	0	--	--	--	---	
2397C/20809	3 3	0.00	0.00	3	0.00	0.00	--	o	1.000	3	30.83	20.63	3	3.33	3.33	--	+	0.273	3	30.83	20.63	3	3.33	3.33	--	+	0.273	3	30.83	20.63	3	3.33	3.33	--	+	0.273
Habitat Means		0.00	0.00	0.00	0.00	0.00	--	o			30.80	20.60	3.30	3.30	--	+				30.80	20.60	3.30	3.30	--	+			30.80	20.60	3.30	3.30	--	+			
Fisher's	Power	---		Power-50%	---	P-value	---	---	---	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	---	---	---	Power	---		Power-50%	---	P-value	---	---	---

(a) Myelophycus and Scytosiphon.

(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-5.351. Page 4. December 15, 1994



Table C-5.351. Algal Percent Cover. Phaeophyta. Prince William Sound. Estuarine. June 1991. Overstory removed June 1990. (Continued.)

Site Pair	Mvd	Morphological Group: Saccate Browns										Leathesia/Colpomenia (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	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	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	---		Power	---	Power	---		Power-50%	---	P-value	---		Power	---	Power	---		Power-50%	---	P-value	---		Power
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---	Power	---		Power-50%	---	P-value	---		Power	---	Power	---		Power-50%	---	P-value	---		Power
P15.1C/P15.1	2	2	0.00	0.00	0	--	--	-	---	---	2	0.00	0.00	0	--	--	-	---	---	---	2	0.00	0.00	0	--	--	-	---	---	---	---	---	---	---	---	---	---	
2397C/20809	2	2	0.00	0.00	6	0.00	0.00	-	o	1.000	2	0.00	0.00	6	0.00	0.00	-	o	1.000	2	0.00	0.00	6	0.00	0.00	-	o	1.000	2	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	---		Power	---	Power	---		Power-50%	---	P-value	---		Power	---	Power	---		Power-50%	---	P-value	---		Power
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---	Power	---		Power-50%	---	P-value	---		Power	---	Power	---		Power-50%	---	P-value	---		Power
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	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	---		Power	---	Power	---		Power-50%	---	P-value	---		Power	---	Power	---		Power-50%	---	P-value	---		Power
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---	Power	---		Power-50%	---	P-value	---		Power	---	Power	---		Power-50%	---	P-value	---		Power

(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-5.351. Page 5, December 15, 1994

Table C-5.352. Algal Percent Cover. Rhodophyta. Prince William Sound. Estuarine. June 1991. Overstory removed 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										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	0.00		o			0.00	0.00	0.00	0.00	0.00		o			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	2	0.00	0.00	0	--	--	-	---	---	2	0.00	0.00	0	--	--	-	---	---	2	0.00	0.00	0	--	--	-	---	---		
2397C/20809	2	2	0.00	0.00	6	3.33	2.47	-	-	0.195	2	0.00	0.00	6	0.00	0.00	-	o	1.000	2	0.00	0.00	6	0.00	0.00	-	o	1.000		
Habitat Means			0.00	0.00	3.30	2.50	-					0.00	0.00	0.00	0.00	0.00		o			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	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---		
2397C/20809	3	3	1.67	1.67	3	0.00	0.00	-	+	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		
Habitat Means			1.70	1.70	0.00	0.00	+					0.00	0.00	0.00	0.00	0.00		o			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-5.352. Page 1. December 15, 1994

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	0.00		o		0.00	0.00	0.00	0.00	0.00	0.00		o		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	---		Power-50%	---	P-value	---	z	Power	---	
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---	Power	---		Power-50%	---	P-value	---		Power	---	
P15.1C/P15.1	2	2	0.00	0.00	0	--	--	-	---	---	2	0.00	0.00	0	--	--	-	---	---	2	0.00	0.00	0	--	--	-	---	---		
2397C/20809	2	2	0.00	0.00	6	3.33	2.47	-	-	0.195	2	0.00	0.00	6	0.00	0.00	-	o	1.000	2	0.00	0.00	6	0.83	0.83	-	-	0.363		
Habitat Means			0.00	0.00	3.30	2.50	-				0.00	0.00	0.00	0.00	0.00	0.00		o		0.00	0.00	0.00	0.80	0.80	-					
Fisher's	Power		---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z	Power	---	Power	---		Power-50%	---	P-value	---	z	Power	---	
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---	Power	---		Power-50%	---	P-value	---		Power	---	
P15.1C/P15.1	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---		
2397C/20809	3	3	1.67	1.67	3	0.00	0.00	-	+	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		
Habitat Means			1.70	1.70	0.00	0.00	0.00	+			0.00	0.00	0.00	0.00	0.00	0.00		o		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	---		Power-50%	---	P-value	---	z	Power	---	
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---	Power	---		Power-50%	---	P-value	---		Power	---	

x At least one site pair p-value < 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.352. Page 2. December 15, 1994

Table C-5.352. Algal Percent Cover. Rhodophyta. Prince William Sound, Estuarine. June 1991. Overstory removed June 1990. (Continued.)

Neorhodomela/Rhodomela (P) (a)											Odonthalia floccosa (P)									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			
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				o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o				
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	---					
P15.1C/P15.1	2	2	0.00	0.00	0	--	--	-	---	---	2	0.00	0.00	0	--	--	-	---	---	2	0.00	0.00	0	--	--	-	---	---			
2397C/20809	2	2	0.00	0.00	6	0.00	0.00	-	o	1.000	2	0.00	0.00	6	2.50	2.50	-	o	0.363	2	0.00	0.00	6	0.00	0.00	-	o	1.000			
Habitat Means			0.00	0.00	0.00				o			0.00	0.00		2.50	2.50		-			0.00	0.00		0.00	0.00		o				
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	---					
P15.1C/P15.1	3	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---	0	--	--	0	--	--	-	---	---			
2397C/20809	3	3	1.67	1.67	3	0.00	0.00	-	+	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			
Habitat Means			1.70	1.70	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	---			Power	---		Power-50%	---	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-5.352. Page 3, December 15, 1994

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	
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	---			Power	---		Power-50%	---	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	2	0.00	0.00	0	--	--	-	---	---																			
2397C/20809	2	2	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	---			Power	---		Power-50%	---	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	---			Power	---		Power-50%	---	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-5.352. Page 4, December 15, 1994

**Table C-5.353. Algal Percent Cover. Invertebrates. Prince William Sound, Estuarine. June 1991. Overstory removed 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	--	--	-	o	---	---	5	0.00	0.00	0	--	--	-	---	---
2397C/20809	1	6	17.72	14.58	4	0.00	0.00	-	+	0.168	6	0.00	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			8.85	7.30		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	---			Power	---		Power-50%	---	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	2	0.00	0.00	0	--	--	-	---	---	2	0.00	0.00	0	--	--	-	o	---	---	2	0.00	0.00	0	--	--	-	---	---
2397C/20809	2	2	0.00	0.00	6	0.00	0.00	-	o	1.000	2	0.00	0.00	6	0.00	0.00	-	o	1.000	2	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	---			Power	---		Power-50%	---	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	--	--	-	o	---	---	0	--	--	0	--	--	-	---	---
2397C/20809	3	3	2.50	2.50	3	2.50	1.44	-	o	0.771	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			2.50	2.50		2.50	1.40		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o		
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.

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		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	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	---		Power	---		Power-50%	---	P-value	---		Power	---		Power	---		Power-50%	---	P-value	---				
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power	---		Power-50%	---	P-value	---				
P15.1C/P15.1	2	2	0.00	0.00	0	--	--	-	---	---																					
2397C/20809	2	2	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	---		Power	---		Power-50%	---	P-value	---		Power	---		Power	---		Power-50%	---	P-value	---				
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		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	---		Power	---		Power-50%	---	P-value	---		Power	---		Power	---		Power-50%	---	P-value	---				
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		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-5.353 Page 2, December 15, 1994

Table C-5.354. Algal Percent Cover. Substrates. Prince William Sound. Estuarine. June 1991. Overstory removed 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.

Site Pair	Mvd	N	Rock							Mud							Sand											
			C	SE	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	37.50	15.61	0	--	--	-	---	5	12.50	6.07	0	--	--	-	---	5	0.00	0.00	0	--	--	-	---	--	-	---
2397C/20809	1	6	44.80	17.33	4	100.00	0.00	-	0.017	6	0.00	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			41.15	16.45	100.00		0.00	-			6.25	3.05		0.00	0.00	o			0.00	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	2	0.00	0.00	0	--	--	-	---	2	50.00	50.00	0	--	--	-	o	1.000	2	0.00	0.00	0	--	--	-	---	---	
2397C/20809	2	2	45.00	12.50	6	95.42	2.92	-	0.004	2	0.00	0.00	6	0.00	0.00	-	o	1.000	2	0.00	0.00	6	0.00	0.00	-	o	1.000	
Habitat Means			22.50	6.25	95.40	2.90	-				25.00	25.00		0.00	0.00	o				0.00	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	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	--	-	---
2397C/20809	3	3	31.67	30.43	3	89.17	4.64	-	0.138	3	0.83	0.83	3	0.00	0.00	-	+	0.423	3	0.00	0.00	3	0.00	0.00	-	o	1.000	
Habitat Means			31.70	30.40	89.20	4.60	-				0.80	0.80		0.00	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	---	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-5.354. Page 1, December 15, 1994

Site Pair	Mvd	N	Shell Fragments							Water							Zostera/Phyllospadix											
			C	SE	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	9.58	9.58	4	0.00	0.00	-	o	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	0.00	-	o		4.80	4.80	0.00	0.00	0.00	-	o		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	2	0.00	0.00	0	--	--	-	---	2	0.00	0.00	0	--	--	-	---	2	0.00	0.00	0	--	--	-	---	--	-	---
2397C/20809	2	2	0.00	0.00	6	0.00	0.00	-	o	1.000	2	0.00	0.00	6	0.00	0.00	-	o	1.000	2	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00	0.00	0.00	0.00	-	o		0.00	0.00	0.00	0.00	0.00	-	o		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	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	0.00	-	o		0.00	0.00	0.00	0.00	0.00	-	o		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-5.354. Page 2, December 15, 1994

Table C-5.354. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Estuarine. June 1991. Overstory removed June 1990. (Continued.)

Site Pair	Mvd	N	Sand and Mud							Total Substrate																		
			C	SE	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	6.09	0	--	--	-	---		5	50.50	15.58	0	--	--	-	---										
2397C/20809	1	6	9.58	9.58	4	0.00	0.00	-	+	0.363	6	54.38	16.38	4	100.00	0.00	-	-	0.023									
Habitat Means			11.30	7.85		0.00	0.00					52.45	16.00		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	2	50.00	50.00	0	--	--	-	---		2	50.00	50.00	0	--	--	-	---										
2397C/20809	2	2	0.00	0.00	6	0.00	0.00	-	o	1.000	2	45.00	12.50	6	95.42	2.92	-	-	0.004									
Habitat Means			25.00	25.00		0.00	0.00		o			47.50	31.25		95.40	2.90												
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	0.83	0.83	3	0.00	0.00	-	+	0.423	3	32.50	30.03	3	89.17	4.64	-	-	0.141									
Habitat Means			0.80	0.80		0.00	0.00		+			32.50	30.00		89.20	4.60												
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 5.354. Page 3. December 15, 1994

**Table C-5.355. Algal Percent Cover, Totals and Seasonal Groups, Prince William Sound, Estuarine, July 1991. Overstory removed 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	0.20	--	4	0.00	0.00	-	+	---	1	2.60	--	4	0.00	0.00	-	+	---	1	15.00	--	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	17.50	10.08	3	0.00	0.00	-	+	0.101				
Habitat Means			0.10	0.00		0.00	0.00		o			1.25	0.22		0.00	0.00		-			16.25	10.10		0.00	0.00							
Fisher's	Power		---		Power-50%	---	P-value	---	yz	Power	---		Power-50%	---	P-value	---	z	Power	---	Power	---		Power-50%	---	P-value	---	z					
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---	Power	---		Power-50%	---	P-value	---						
P15.1C/P15.1	2	1	0.00	--	4	0.00	0.00	-	o	---	1	1.00	--	4	0.50	0.29	-	+	---	1	100.00	--	4	1.88	1.20	-	-	---				
2397C/20809	2	4	0.00	0.00	5	0.07	0.07	-	-	0.374	4	1.00	0.00	5	0.80	0.58	-	+	0.749	4	56.25	17.87	5	12.00	7.72	-	-	0.042				
Habitat Means			0.00	0.00		0.04	0.04		-			1.00	0.00		0.65	0.44		+			78.15	17.90		6.95	4.45							
Fisher's	Power		---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z	Power	---	Power	---		Power-50%	---	P-value	---	z					
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---	Power	---		Power-50%	---	P-value	---						
P15.1C/P15.1	3	0	--	--	1	0.57	--	-	---	0	--	--	1	4.00	--	-	---	0	--	0	--	--	1	25.00	--	-	---					
2397C/20809	3	4	0.15	0.15	4	0.00	0.00	-	+	0.391	4	1.50	1.19	4	0.50	0.29	-	-	0.445	4	11.87	8.86	4	26.88	17.78	-	-	0.595				
Habitat Means			0.15	0.15		0.29	0.00		+			1.50	1.19		2.25	0.29		-			11.90	8.90		25.95	17.80							
Fisher's	Power		---		Power-50%	---	P-value	---	yz	Power	---		Power-50%	---	P-value	---	yz	Power	---	Power	---		Power-50%	---	P-value	---	z					
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---	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.

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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	0.00	--	4	0.00	0.00	-	o	---	1	7.50	--	4	25.62	23.99	-	-	---	1	15.00	--	4	0.00	0.00	-	+	---
2397C/20809	1	6	7.92	4.67	3	0.83	0.83	-	+	0.272	6	74.58	10.09	3	99.17	0.83	-	-	0.132	6	17.50	10.08	3	0.00	0.00	-	+	0.101
Habitat Means			3.95	4.70		0.40	0.40		-			41.05	10.10		62.40	12.40		-			16.25	10.10		0.00	0.00			
Fisher's	Power		---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z	Power	---	Power	---		Power-50%	---	P-value	---	z	
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---	Power	---		Power-50%	---	P-value	---		
P15.1C/P15.1	2	1	0.00	--	4	3.75	2.98	-	-	---	1	0.00	--	4	55.00	23.89	-	-	---	1	0.00	--	4	0.00	0.00	-	o	---
2397C/20809	2	4	18.12	15.66	5	0.00	0.00	-	+	0.210	4	24.38	9.70	5	88.00	7.72	-	-	0.005	4	56.25	17.87	5	11.50	7.57	-	-	0.040
Habitat Means			9.05	15.70		1.90	1.50		+			12.20	9.70		71.50	15.80		-			28.15	17.90		5.75	3.80			
Fisher's	Power		---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z	Power	---	Power	---		Power-50%	---	P-value	---	z	
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---	Power	---		Power-50%	---	P-value	---		
P15.1C/P15.1	3	0	--	--	1	5.00	--	-	---	0	--	--	1	55.00	--	-	---	0	--	0	--	--	1	17.50	--	-	---	
2397C/20809	3	4	32.50	20.39	4	15.63	7.93	-	+	0.554	4	20.63	16.02	4	57.50	12.37	-	-	0.093	4	4.38	2.58	4	8.12	8.12	-	-	0.992
Habitat Means			32.50	20.40		10.30	7.90		+			20.60	16.00		56.25	12.40		-			4.40	2.60		12.80	8.10			
Fisher's	Power		---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z	Power	---	Power	---		Power-50%	---	P-value	---	z	
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---	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-5.355. Page 2, December 15, 1994

Table C-5.355. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Estuarine. July 1991. Overstory removed August 1990. (Continued.)

Site Pair	Mvd	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
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	1.20	-	+	---	1	100.00	--	4	1.88	1.20	-	+	---									
2397C/20809	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									
Habitat Means			50.00	0.00		1.20	0.85		-			50.00	0.00		0.95	0.60		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	7.50	7.50	4	18.75	18.75	-	-	0.710	4	6.88	6.88	4	18.75	18.75	-	-	0.690									
Habitat Means			7.50	7.50		13.15	18.80		-			6.90	6.90		13.15	18.80		-										
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-5.356. Algal Percent Cover. Chlorophyta. Prince William Sound. Estuarine. July 1991. Overstory removed 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	0.00		o			0.00	0.00	0.00	0.00	0.00		o			0.00	0.00	0.00	0.00	0.00		o		
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	---		---	
P15.1C/P15.1	2	1	0.00	--	4	0.63	0.63	-	-	---	1	0.00	--	4	0.63	0.63	-	-	---	1	0.00	--	4	0.63	0.63	-	-	---	
2397C/20809	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	
Habitat Means			0.00	0.00	0.55	0.55		-				0.00	0.00	0.30	0.30	0.30		o			0.00	0.00	0.30	0.30	0.30		o		
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	---		---	
P15.1C/P15.1	3	0	--	--	1	7.50	--	-	-	---	0	--	--	1	7.50	--	-	-	---	0	--	--	1	7.50	--	-	-	---	
2397C/20809	3	4	3.75	3.75	4	18.75	18.75	-	-	0.583	4	3.13	3.13	4	0.00	0.00	-	-	0.391	4	3.13	3.13	4	0.00	0.00	-	+	0.391	
Habitat Means			3.80	3.80	13.15	18.80		-				3.10	3.10	3.75	0.00		-				3.10	3.10	3.75	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) Kormannia, Monostroma, Ulva and Ulvaria.

\* At least one site pair p value < 0.00 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.356. Page 1. December 15, 1994

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	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	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o		
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	---		---	
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	0.00	-	o	---
2397C/20809	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	0.50	0.50	-	-	0.374	
Habitat Means			0.00	0.00		0.25	0.25		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.25	0.25		-		
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	---		---	
P15.1C/P15.1	3	0	--	--	1	0.00	--	-	-	---	0	--	--	1	0.00	--	-	-	---	0	--	--	1	0.00	--	-	-	---	
2397C/20809	3	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	4	0.00	0.00	4	0.00	0.00	-	o	1.000	
Habitat Means			0.60	0.60		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	---		---	Power	---		Power-50%	---	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.

\* At least one site pair p value < 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.356. Page 2. December 15, 1994

Table C-5.356. Algal Percent Cover. Chlorophyta. Prince William Sound. Estuarine. July 1991. Overstory removed 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	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	0.63	0.63	4	0.00	0.00	-	+	0.391	4	0.00	0.00	4	18.75	18.75	-	-	0.391	4	0.00	0.00	4	18.75	18.75	-	-	0.391	
Habitat Means			0.60	0.60		0.00	0.00		+			0.00	0.00		9.40	18.80		-			0.00	0.00		9.40	18.80		-		
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.

Table C-5.356. Page 3. December 15, 1994

Table C-5.357. Algal Percent Cover. Phaeophyta. Prince William Sound. Estuarine. July 1991. Overstory removed 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	N	Total Phaeophyta							Morphological Group: Bladed Browns							Fucus cottonii (F)												
			C	SE	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	15.00	--	4	0.00	0.00	-	+	---	1	15.00	--	4	0.00	0.00	-	+	---	1	2.50	--	4	0.00	0.00	-	-	---	
2397C/20809	1	6	17.50	10.08	3	0.00	0.00	-	+	0.101	6	17.50	10.08	3	0.00	0.00	-	+	0.101	6	0.00	0.00	3	0.00	0.00	-	o	1.000	
Habitat Means			16.25	10.10		0.00	0.00		+			16.25	10.10		0.00	0.00		+			1.25	0.00		0.00	0.00		o		
Fisher's	Power		---			Power-50%	---		P-value	---	Power	---			Power-50%	---		P-value	---	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	2	1	100.00	--	4	1.25	1.25	-	+	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---	
2397C/20809	2	4	56.25	17.87	5	10.50	7.35	-	+	0.036	4	56.25	17.87	5	10.50	7.35	-	+	0.036	4	0.00	0.00	5	0.00	0.00	-	o	1.000	
Habitat Means			78.15	17.90		5.90	4.35		+			28.15	17.90		5.25	3.70		+			0.00	0.00		0.00	0.00		o		
Fisher's	Power		---			Power-50%	---		P-value	---	Power	---			Power-50%	---		P-value	---	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	7.50	--	-	---	---	0	--	--	1	7.50	--	-	---	---	0	--	--	1	0.00	--	-	---	---	
2397C/20809	3	4	8.12	5.34	4	8.12	8.12	-	o	0.798	4	4.38	2.58	4	8.12	8.12	-	-	0.992	4	0.00	0.00	4	0.00	0.00	-	o	1.000	
Habitat Means			8.10	5.30		7.80	8.10		o			4.40	2.60		7.80	8.10		-			0.00	0.00		0.00	0.00		o		
Fisher's	Power		---			Power-50%	---		P-value	---	Power	---			Power-50%	---		P-value	---	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-5.357. Page 1. December 15, 1994

Total <i>Fucus gardneri</i> (P)											Adult <i>Fucus gardneri</i> (P) (> 2cm)								Juvenile <i>Fucus gardneri</i> (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	1	12.50	--	4	0.00	0.00	-	+	---	1	10.00	--	4	0.00	0.00	-	-	---	1	2.50	--	4	0.00	0.00	0.00	-	+	---
2397C/20809	1	6	17.50	10.08	3	0.00	0.00	-	+	0.101	6	17.50	10.08	3	0.00	0.00	-	-	0.101	6	0.00	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			15.00	10.10		0.00	0.00		+			13.75	10.10		0.00	0.00		+			1.25	0.00		0.00	0.00		o		
Fisher's	Power		---			Power-50%	---		P-value	---	Power	---			Power-50%	---		P-value	---	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	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	0.00	-	o	---
2397C/20809	2	4	56.25	17.87	5	10.50	7.35	-	+	0.036	4	56.25	17.87	5	10.50	7.35	-	+	0.036	4	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
Habitat Means			28.15	17.90		5.25	3.70		+			28.15	17.90		5.25	3.70		+			0.00	0.00		0.00	0.00		o		
Fisher's	Power		---			Power-50%	---		P-value	---	Power	---			Power-50%	---		P-value	---	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	7.50	--	-	---	---	0	--	--	1	7.50	--	-	---	---	0	--	--	1	0.00	--	-	---	---	
2397C/20809	3	4	4.38	2.58	4	8.12	8.12	-	-	0.992	4	4.38	2.58	4	8.12	8.12	-	-	0.992	4	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000
Habitat Means			4.40	2.60		7.80	8.10		-			4.40	2.60		7.80	8.10		-			0.00	0.00		0.00	0.00		o		
Fisher's	Power		---			Power-50%	---		P-value	---	Power	---			Power-50%	---		P-value	---	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-5.357. Page 2. December 15, 1994

Table C-5.357. Algal Percent Cover. Phaeophyta. Prince William Sound. Estuarine. July 1991. Overstory removed August 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	
P15.1C/P15.1 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	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	0.00		o			0.00	0.00	0.00	0.00	0.00		o			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	Power	---
Stouffer's	Power	---			Power-50%	---	P-value	---		Power	---			Power-50%	---	P-value	---		Power	---			Power-50%	---	P-value	---		Power	---
P15.1C/P15.1 2	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 2	4	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	0.00		o			0.00	0.00	0.00	0.00	0.00		o			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	Power	---
Stouffer's	Power	---			Power-50%	---	P-value	---		Power	---			Power-50%	---	P-value	---		Power	---			Power-50%	---	P-value	---		Power	---
P15.1C/P15.1 3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--
2397C/20809 3	4	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.63	0.63	4	0.00	0.00	-	o	0.391	4	0.00	0.00	4	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00	0.00	0.00	0.00		o			0.60	0.60	0.00	0.00	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	Power	---
Stouffer's	Power	---			Power-50%	---	P-value	---		Power	---			Power-50%	---	P-value	---		Power	---			Power-50%	---	P-value	---		Power	---

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

Table C-5.357, Page 3, December 15, 1994

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	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	0.00	o				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	Power	---
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---			Power-50%	---	P-value	---		Power	---			Power-50%	---	P-value	---		Power	---
P15.1C/P15.1	2	1	0.00	--	4	0.00	0.00	-	o	---	1	100.00	--	4	1.25	1.25	-	+	---	1	100.00	--	4	1.25	1.25	-	+	---	
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	0.00	o				50.00	0.00	0.65	0.65	o					50.00	0.00	0.65	0.65	o				
Fisher's	Power		---		Power-50%	---	P-value	---	z	Power	---			Power-50%	---	P-value	---	yz	Power	---			Power-50%	---	P-value	---	yz	Power	---
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---			Power-50%	---	P-value	---		Power	---			Power-50%	---	P-value	---		Power	---
P15.1C/P15.1	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	
2397C/20809	3	4	0.63	0.63	4	0.00	0.00	-	+	0.391	4	3.13	3.13	4	0.00	0.00	-	+	0.391	4	3.13	3.13	4	0.00	0.00	-	+	0.391	
Habitat Means			0.60	0.60	0.00	0.00	0.00	+				3.10	3.10	0.00	0.00	0.00	+				3.10	3.10	0.00	0.00	0.00	+			
Fisher's	Power		---		Power-50%	---	P-value	---	z	Power	---			Power-50%	---	P-value	---	z	Power	---			Power-50%	---	P-value	---	z	Power	---
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---			Power-50%	---	P-value	---		Power	---			Power-50%	---	P-value	---		Power	---

(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-5.357, Page 4, December 15, 1994

Table C-5.357. Algal Percent Cover. Phaeophyta. Prince William Sound. Estuarine. July 1991. Overstory removed 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	---		Power	---	
Stouffer's	Power		---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---	
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	---		Power	---	
Stouffer's	Power		---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---	
P15.1C/P15.1	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---										
2397C/20809	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										
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	---		Power	---	
Stouffer's	Power		---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---	

(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-5.357, Page 5, December 15, 1994

Table C-5.358. Algal Percent Cover. Rhodophyta. Prince William Sound. Estuarine. July 1991. Overstory removed 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	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	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	---		Power-50%	---	P-value	---	z
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power-50%	---	P-value	---	
P15.1C/P15.1 2	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 2	4	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		
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	---	z	Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---		Power-50%	---	P-value	---	z
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power-50%	---	P-value	---	
P15.1C/P15.1 3	0	0	--	--	1	10.00	--	-	---	0	--	--	1	0.00	--	-	---	0	--	--	1	0.00	--	-	---	--	-	---		
2397C/20809 3	4	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		5.00	0.00		o			0.00	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	---	yz	Power	---		Power-50%	---	P-value	---		Power-50%	---	P-value	---	z
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		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-5.358. Page 1. December 15, 1994

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	---		Power-50%	---	P-value	---	z
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		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	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		
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	---	z	Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---		Power-50%	---	P-value	---	z
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power-50%	---	P-value	---	
P15.1C/P15.1	3	0	--	--	1	10.00	--	-	---	0	--	--	1	0.00	--	-	---	0	--	--	1	0.00	--	-	---	--	-	---		
2397C/20809	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		
Habitat Means			0.00	0.00		5.00	0.00		o			0.00	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	---	yz	Power	---		Power-50%	---	P-value	---		Power-50%	---	P-value	---	z
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		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-5.358. Page 2. December 15, 1994

Table C-5 358. Algal Percent Cover. Rhodophyta. Prince William Sound. Estuarine. July 1991. Overstory removed August 1990. (Continued.)

Neorhodomela/Rhodomela (P) (a)											Odonthalia floccosa (P)								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	
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	1.00	1.00	-	-	0.374	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		0.50	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	---		
P15.1C/P15.1	3	0	--	--	1	2.50	--	-	---	---	0	--	--	1	7.50	--	-	---	---	0	--	--	1	0.00	--	-	---	---	
2397C/20809	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	
Habitat Means			0.00	0.00		1.25	0.00		o			0.00	0.00		3.75	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	---	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) 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-5.358. Page 3. December 15, 1994

		Polysiphonia/Pterosiphonia (A) (a)																													
Site Pair	Mvd	C	SE	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	6	0.00	0.00	3	0.00	0.00	-	o	1.000																					
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	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	---				

(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-5.358. Page 4. December 15, 1994

**Table C-5.359. Algal Percent Cover, Invertebrates, Prince William Sound, Estuarine, July 1991. Overstory removed 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	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	7.92	4.67	3	0.83	0.83	-	+	0.272	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			3.95	4.70		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	Power	---
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---			Power-50%	---	P-value	---		Power	---			Power-50%	---	P-value	---		Power	---
P15.1C/P15.1	2	1	0.00	--	4	3.75	2.98	-	-	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---	
2397C/20809	2	4	18.12	15.66	5	0.00	0.00	-	+	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	
Habitat Means			9.05	15.70		1.90	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	Power	---
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---			Power-50%	---	P-value	---		Power	---			Power-50%	---	P-value	---		Power	---
P15.1C/P15.1	3	0	--	--	1	5.00	--	-	-	---	0	--	--	1	0.00	--	-	-	---	0	--	--	1	0.00	--	-	-	---	
2397C/20809	3	4	26.88	16.28	4	15.63	7.93	-	-	0.663	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	5.62	4.13	4	0.00	0.00	-	+	0.212	
Habitat Means			26.90	16.30		10.30	7.90		+			0.00	0.00		0.00	0.00		o			5.60	4.10		0.00	0.00		+		
Fisher's	Power		---		Power-50%	---	P-value	---	z	Power	---			Power-50%	---	P-value	---	z	Power	---			Power-50%	---	P-value	---	z	Power	---
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---			Power-50%	---	P-value	---		Power	---			Power-50%	---	P-value	---		Power	---

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

Table C-5.359. Page 1. December 15, 1994

Littorinidae																													
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	---	z	Power	---			Power-50%	---	P-value	---	z	Power	---
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---			Power-50%	---	P-value	---		Power	---			Power-50%	---	P-value	---		Power	---
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	---	z	Power	---			Power-50%	---	P-value	---	z	Power	---
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---			Power-50%	---	P-value	---		Power	---			Power-50%	---	P-value	---		Power	---
P15.1C/P15.1	3	0	--	--	1	0.00	--	-	-	---																			
2397C/20809	3	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	---	z	Power	---			Power-50%	---	P-value	---	z	Power	---			Power-50%	---	P-value	---	z	Power	---
Stouffer's	Power		---		Power-50%	---	P-value	---		Power	---			Power-50%	---	P-value	---		Power	---			Power-50%	---	P-value	---		Power	---

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

Table C-5.359. Page 2. December 15, 1994



Table C-5.360. Algal Percent Cover. Substrates. Prince William Sound. Estuarine. July 1991. Overstory removed 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	N	Rock							Mud							Sand													
			C	SE	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	25.62	23.99	-	-	---	1	50.00	--	4	73.75	24.61	-	-	---	1	0.00	--	4	0.00	0.00	-	o	---		
2397C/20809	1	6	74.58	10.09	3	99.17	0.83	-	-	0.132	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			41.05	10.10		62.40	12.40		-			25.00	0.00		36.90	12.30		o			0.00	0.00		0.00	0.00		o			
Fisher's	Power		---			Power-50%	---			P-value	---	Power	---		Power-50%	---			P-value	---	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	55.00	23.89	-	-	---	1	0.00	--	4	39.38	24.33	-	-	---	1	0.00	--	4	0.00	0.00	0.00	-	o	---	
2397C/20809	2	4	24.38	9.70	5	88.00	7.72	-	-	0.005	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		
Habitat Means			12.20	9.70		71.50	15.80		-			0.65	1.30		19.70	12.15		+			0.00	0.00		0.00	0.00		o			
Fisher's	Power		---			Power-50%	---			P-value	---	Power	---		Power-50%	---			P-value	---	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	55.00	--	--	--	---	0	--	--	1	15.00	--	--	--	---	0	--	--	1	0.00	--	--	--	---		
2397C/20809	3	4	20.63	16.02	4	57.50	12.37	-	-	0.093	4	35.00	23.63	4	0.00	0.00	-	+	0.227	4	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000	
Habitat Means			20.60	16.00		56.25	12.40		-			35.00	23.60		7.50	0.00		+			0.00	0.00		0.00	0.00		o			
Fisher's	Power		---			Power-50%	---			P-value	---	Power	---		Power-50%	---			P-value	---	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-5.360. Page 1. December 15, 1994

Site Pair	Mvd	Shell Fragments									Water									Zostera/Phyllospadix													
		N	C	SE	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	Power	---		Power-50%	---	P-value	---	z
Stouffer's	Power		---		Power-50%	---	P-value	---		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	Power	---		Power-50%	---	P-value	---	z
Stouffer's	Power		---		Power-50%	---	P-value	---		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	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	---	z	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	---		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-5.360. Page 2. December 15, 1994

Table C-5.360. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Estuarine. July 1991. Overstory removed August 1990. (Continued.)

Site Pair	Method	Sand and Mud								Total Substrate																			
		N	C	SE	N	O	RR	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	00.00	---	3	0.00	24.01	-	o	1.000	6	74.58	10.09	3	99.17	0.83	-	-	0.132										
2397C/20809	1	6	0.00	0.00	3	0.00	0.00	-	o																				
Habitat Means			25.00	0.00		36.90	12.30		o			66.05	10.10		99.30	0.70		-											
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	39.38	24.33	-	-	---	1	0.00	---	4	94.38	2.58	-	-	---										
2397C/20809	2	4	1.25	1.25	5	0.00	0.00	-	-	0.391	4	25.62	9.49	5	88.00	7.72	-	-	0.005										
Habitat Means			0.65	1.30		19.70	12.15		-			12.80	9.50		91.20	5.15		-											
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	
P15.1C/P15.1	3	0	---	---	1	15.00	---	-	---	---	0	---	---	1	70.00	---	-	---	---										
2397C/20809	3	4	35.00	23.63	4	0.00	0.00	-	+	0.227	4	55.63	20.83	4	57.50	12.37	-	-	0.946										
Habitat Means			35.00	23.60		7.50	0.00		+			55.60	20.80		63.75	12.40		-											
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-5.360. Page 3. December 15, 1994

**Table C-5.361. Algal Percent Cover, Totals and Seasonal Groups, Prince William Sound, Exposed Rocky, June 1991, Overstory removed 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.

Site Pair	Mvd	N	Algal Diversity Index (a)							Algal Taxa Richness (b)							Total Algae											
			C	SE	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	0.06	0.04	-	-	0.210	5	0.40	0.24	5	1.00	0.45	-	-	0.273	5	2.00	1.46	5	13.50	7.57	-	-	0.220
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	0.07	0.05	4	0.00	0.00	-	-	0.175	6	1.33	0.21	4	0.25	0.25	-	-	0.011	6	45.00	10.47	4	0.63	0.63	-	+	0.002
Habitat Means			0.02	0.02		0.02	0.01					0.58	0.15		0.42	0.23		-			15.67	4.00		4.70	2.73			
Fisher's	Power		0.008		Power-50%	0.020	P-value			0.371	Power	---		Power-50%	---	P-value			0.060	Power	---		Power-50%	---	P-value			0.014
Stouffer's	Power		0.000		Power-50%	0.020	P-value			0.209	Power	---		Power-50%	---	P-value			0.033	Power	---		Power-50%	---	P-value			0.010
19C/19	2	3	0.13	0.08	3	0.00	0.00	-	-	0.234	3	1.67	0.33	3	0.67	0.33	-	+	0.101	3	33.33	27.09	3	1.67	0.83	-	-	0.225
1642C/833	2	6	0.06	0.06	4	0.15	0.10	-	-	0.425	6	1.00	0.45	4	1.50	0.65	-	-	0.527	6	21.67	10.12	4	21.25	13.29	-	-	0.930
4537C/979	2	3	0.10	0.10	4	0.00	0.00	-	+	0.423	3	1.33	0.33	4	0.25	0.25	-	+	0.045	3	97.50	2.50	4	1.88	1.88	-	-	0.000
Habitat Means			0.10	0.08		0.05	0.03		+			1.33	0.37		0.81	0.41		+			50.83	13.23		8.30	5.33		-	
Fisher's	Power		0.084		Power-50%	0.158	P-value			0.247	Power	---		Power-50%	---	P-value			0.028	Power	---		Power-50%	---	P-value			0.000
Stouffer's	Power		0.090		Power-50%	0.262	P-value			0.274	Power	---		Power-50%	---	P-value			0.035	Power	---		Power-50%	---	P-value			0.000
19C/19	3	1	0.28	--	5	0.22	0.13	-	-	---	1	2.00	--	5	2.20	0.97	-	-	---	1	7.50	--	5	39.50	21.35	-	-	---
1642C/833	3	5	0.06	0.06	3	0.14	0.14	-	-	0.547	5	1.00	0.32	3	1.67	0.67	-	-	0.341	5	18.50	10.39	3	12.50	5.77	-	+	0.949
4537C/979	3	3	0.22	0.17	4	0.26	0.18	-	-	0.879	3	2.33	0.88	4	3.25	1.93	-	-	0.718	3	55.83	20.22	4	31.88	14.73	-	-	0.328
Habitat Means			0.19	0.11		0.21	0.15		-			1.78	0.60		2.37	1.19		-			27.27	15.30		27.97	13.97			
Fisher's	Power		0.045		Power-50%	0.100	P-value			0.375	Power	0.121		Power-50%	0.529	P-value			0.232	Power	0.085		Power-50%	0.126	P-value			0.276
Stouffer's	Power		0.062		Power-50%	0.147	P-value			0.334	Power	0.126		Power-50%	0.588	P-value			0.216	Power	0.092		Power-50%	0.168	P-value			0.189

(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.

Table C-5.361. Page 1. December 15, 1994

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	6.50	2.69	5	1.50	1.00	-	-	0.125	5	91.50	2.45	5	85.00	8.37	-	+	0.815	5	0.50	0.50	5	2.00	1.22	-	-	0.386	
1642C/833	1	5	0.00	0.00	4	26.25	15.70	-	-	0.187	5	99.50	0.50	4	73.75	15.70	-	+	0.24	5	0.00	0.00	4	0.00	0.00	-	o	1.000	
4537C/979	1	6	1.67	1.67	4	2.50	1.44	-	-	0.504	6	53.33	11.79	4	96.88	1.87	-	-	0.019	6	45.00	10.47	4	0.00	0.00	-	+	0.002	
Habitat Means			2.73	1.47		10.10	6.03		-			81.43	4.93		85.23	8.67		-			15.17	3.67		0.67	0.40		+		
Fisher's	Power		0.066		Power-50%	0.101	P-value			0.267	Power	0.070		Power-50%	0.798	P-value			0.318xy	Power	---		Power-50%	---	P-value			0.013	
Stouffer's	Power		0.020		Power-50%	0.113	P-value			0.214	Power	0.005		Power-50%	0.850	P-value			0.910	Power	---		Power-50%	---	P-value			0.008	
19C/19	2	3	19.17	7.12	3	27.50	20.46	-	-	0.949	3	47.50	20.05	3	70.83	21.03	-	-	0.311	3	29.17	25.51	3	0.83	0.83	-	+	0.292	
1642C/833	2	6	6.67	3.86	4	42.50	19.87	-	-	0.089	6	71.67	11.65	4	36.25	16.47	-	+	0.014	6	16.25	8.06	4	17.50	11.86	-	-	0.888	
4537C/979	2	3	0.00	0.00	4	3.13	1.88	-	-	0.185	3	2.50	2.50	4	95.00	1.77	-	-	0.010	3	97.50	2.50	4	1.88	1.88	-	+	0.000	
Habitat Means			8.63	3.67		24.37	14.10		-			40.57	11.43		67.37	13.10		-			47.67	12.03		6.73	4.87		-		
Fisher's	Power		---		Power-50%	---	P-value			0.052	Power	---		Power-50%	---	P-value			0.011x	Power	---		Power-50%	---	P-value			0.000	
Stouffer's	Power		---		Power-50%	---	P-value			0.026	Power	---		Power-50%	---	P-value			0.014	Power	---		Power-50%	---	P-value			0.000	
19C/19	3	1	60.00	--	5	22.50	12.60	-	+	---	1	32.50	--	5	38.00	18.56	-	-	---	1	2.50	--	5	16.00	8.82	-	-	---	
1642C/833	3	5	8.50	5.57	3	61.67	30.97	-	-	0.111	5	70.50	13.56	3	25.83	25.83	-	+	0.110	5	17.50	10.78	3	1.67	0.83	-	-	0.474	
4537C/979	3	3	0.83	0.83	4	4.37	4.37	-	-	0.701	3	43.33	21.03	4	63.75	12.27	-	-	0.313	3	47.50	22.41	4	20.00	6.85	-	-	0.251	
Habitat Means			23.10	3.20		29.53	16.00		-			48.77	18.30		42.53	18.90		-			22.50	16.60		12.57	5.50		-		
Fisher's	Power		---		Power-50%	---	P-value			0.096	Power	0.073		Power-50%	0.274	P-value			0.111	Power	0.218		Power-50%	0.370	P-value			0.134	
Stouffer's	Power		0.352		Power-50%	0.161	P-value			0.131	Power	0.037		Power-50%	0.342	P-value			0.412	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.

Table C-5.361. Page 2. December 15, 1994

Table C-5.361. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Exposed Rocky. June 1991. Overstory removed June 1990. (Continued.)

Site Pair	Mvd	N	Annual <sup>a</sup> (%)							Ephemerals (AE)																		
			C	SE	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	11.50	7.57	-	-	0.297	5	0.00	0.00	5	11.50	7.57	-	-	0.186									
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	0.63	0.63	-	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000									
Habitat Means			0.50	0.50		4.03	2.73	-				0.00	0.00		3.83	2.53	-											
Fisher's	Power		0.086		Power-50%		---	P-value		0.206	Power	0.009		Power-50%		---	P-value		0.275	Power	---		Power-50%		---	P-value		
Stouffer's	Power		0.118		Power-50%		---	P-value		0.161	Power	0.004		Power-50%		---	P-value		0.365	Power	---		Power-50%		---	P-value		
19C/19	2	3	4.17	2.20	3	0.83	0.83	-	-	0.316	3	0.00	0.00	3	0.00	0.00	-	o	1.000									
1642C/833	2	6	5.42	5.42	4	3.75	2.17	-	-	0.797	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			3.20	2.53		1.53	1.00	+				0.00	0.00		0.00	0.00	o											
Fisher's	Power		0.209		Power-50%		0.156	P-value		0.329	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		
Stouffer's	Power		0.127		Power-50%		0.142	P-value		0.350	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
19C/19	3	1	5.00	--	5	23.50	14.07	-	-	---	1	0.00	--	5	18.00	11.27	-	-	---									
1642C/833	3	5	1.00	0.61	3	10.83	6.51	-	-	0.127	5	0.00	0.00	3	7.50	7.50	-	-	0.423									
4537C/979	3	3	8.33	5.07	4	11.87	11.06	-	-	0.958	3	4.17	4.17	4	7.50	7.50	-	-	0.907									
Habitat Means			4.77	2.85		15.40	10.57	-				1.40	2.10		11.00	8.77	-											
Fisher's	Power		0.174		Power-50%		0.342	P-value		0.137	Power	0.050		Power-50%		---	P-value		0.321	Power	---		Power-50%		---	P-value		
Stouffer's	Power		0.156		Power-50%		0.417	P-value		0.211	Power	0.064		Power-50%		---	P-value		0.309	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-5.361, page 3, December 15, 1994

Table C-5.362. Algal Percent Cover. Chlorophyta. Prince William Sound. Exposed Rocky. June 1991. Overstory removed 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	11.50	7.57	-	-	0.186	5	0.00	0.00	5	0.50	0.50	-	-	0.374	5	0.00	0.00	5	0.50	0.50	-	-	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	0.00	0.00	4	0.00	0.00	-	o	1.000		
Habitat Means			0.00	0.00		3.83	2.53	-				0.00	0.00		0.17	0.17	-				0.00	0.00		0.17	0.17	-				
Fisher's	Power		0.009		Power-50%		---	P-value		0.275	Power	---		Power-50%		---	P-value		0.409	Power	---		Power-50%		---	P-value		0.409		
Stouffer's	Power		0.006		Power-50%		---	P-value		0.365	Power	---		Power-50%		---	P-value		0.408	Power	---		Power-50%		---	P-value		0.408		
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	14.00	10.20	-	-	---	1	0.00	--	5	14.00	10.20	-	-	---	1	0.00	--	5	14.00	10.20	-	-	---		
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	3.33	3.33	4	6.88	6.88	-	-	0.875	3	3.33	3.33	4	6.25	6.25	-	-	0.900	3	3.33	3.33	4	6.25	6.25	-	-	0.900		
Habitat Means			1.10	1.65		6.97	5.70	-				1.10	1.65		6.77	5.50	-				1.10	1.65		6.77	5.50	-				
Fisher's	Power		0.001		Power-50%		---	P-value		0.551	Power	0.001		Power-50%		---	P-value		0.561	Power	0.001		Power-50%		---	P-value		0.561		
Stouffer's	Power		0.000		Power-50%		---	P-value		0.446	Power	0.001		Power-50%		---	P-value		0.457	Power	0.001		Power-50%		---	P-value		0.457		

(a) Kormannia, Monoclonia, Ulva and Ulvaria.

x At least one site pair p-value < 0.10 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C 5.362, Page 1, December 15, 1994

Morphological Group: Fine Filamentous Greens											Acrosiphonia sp. (A)								Chaetomorpha/Rhizoclonium (A) (a)														
Pa	M	C	SE	N	O	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	11.00	7.14	-	-	0.185	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	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	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	4	0.00	0.00	-	o	1.000		
Habitat Means			0.00	0.00		3.67	2.37	-				0.00	0.00		0.00	0.00	-	o			0.00	0.00		0.00	0.00		0.00	-	o				
Fisher's	Power		0.009		Power-50%	---	P-value		0.274	Power	---		Power-50%	---	P-value		0.655	Power	---		Power-50%	---	P-value		0.655	Power	---		Power-50%	---	P-value		0.500
Stouffer's	Power		0.005		Power-50%	---	P-value		0.365	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	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	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	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		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	Power	---		Power-50%	---	P-value		0.500
Stouffer's	Power		---		Power-50%	---	P-value		0.500	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	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	3	0.00	0.00	-	o	1.000		
4537C/979	3	3	0.00	0.00	4	0.63	0.63	-	-	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	4	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			0.00	0.00		0.00	0.00		0.00	-	o				
Fisher's	Power		---		Power-50%	---	P-value		0.325	Power	---		Power-50%	---	P-value		0.597	Power	---		Power-50%	---	P-value		0.597	Power	---		Power-50%	---	P-value		0.500
Stouffer's	Power		---		Power-50%	---	P-value		0.228	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-5.362, Page 2, December 15, 1994

Table C-5.362. Algal Percent Cover. Chlorophyta. Prince William Sound. Exposed Rocky. June 1991. Overstory removed 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	
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	11.00	7.14	-	-	0.185	
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		3.67	2.37		-		
Fisher's										0.655	Power								0.655	Power		0.010						0.274	
Stouffer's										0.500	Power								0.500	Power		0.005						0.365	
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	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	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	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o		
Fisher's										0.655	Power								0.655	Power		---						0.655	
Stouffer's										0.500	Power								0.500	Power		---						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	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	0.00	-	o	1.000
4537C/979	3	3	0.00	0.00	4	0.63	0.63	-	-	0.391	3	0.00	0.00	4	0.00	0.00	-	-	0.391	3	0.00	0.00	4	0.00	0.00	0.00	-	-	0.391
Habitat Means			0.00	0.00		0.20	0.20		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o		
Fisher's										0.325	Power								0.597	Power		---						0.597	
Stouffer's										0.228	Power								0.500	Power		---						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-5.362. Page 3. December 15, 1994

α	β	Morphological Group: Tubular and Saccate Greens								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	
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			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			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			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 superated.

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

Table C-5.362. Page 4. December 15, 1994

Table C-5.363. Algal Percent Cover. Rhodophyta. Prince William Sound. Exposed Rocky. June 1991. Overstory removed 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.

Site Pair	Mvd	N	Total Pseephyta							Morphological Group: Bladed Browns							Alaria sp. (A)											
			C	SE	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	1.00	1.00	-	-	0.815	5	0.50	0.50	5	1.00	1.00	-	-	0.815	5	0.00	0.00	5	0.00	0.00	-	-	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	40.42	9.69	4	0.00	0.00	-	+	0.003	6	40.42	9.69	4	0.00	0.00	-	-	0.003	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			13.63	3.40		0.33	0.33		+		13.63	3.40		0.33	0.33		-			0.00	0.00		0.00	0.00		o		
Fisher's	Power	---			Power-50%	---	P-value	0.015	Power	---			Power-50%	---	P-value	0.015	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	2	3	30.00	28.76	3	0.83	0.83	-	-	0.352	3	27.50	26.26	3	0.83	0.83	-	+	0.351	3	0.00	0.00	3	0.00	0.00	-	o	1.000
1642C/833	2	6	15.83	8.03	4	13.75	12.93	-	+	0.747	6	15.83	8.03	4	13.75	12.93	-	+	0.747	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	3	81.33	13.10	4	0.00	0.00	-	-	0.027	3	83.33	13.10	4	0.00	0.00	-	+	0.027	3	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			41.03	16.63		4.87	4.57		-		42.20	15.80		4.87	4.57		+			0.00	0.00		0.00	0.00		o		
Fisher's	Power	---			Power-50%	---	P-value	0.029	Power	---			Power-50%	---	P-value	0.029	Power	---		Power-50%	---	P-value	0.655					
Stouffer's	Power	---			Power-50%	---	P-value	0.012	Power	---			Power-50%	---	P-value	0.012	Power	---		Power-50%	---	P-value	0.500					
19C/19	3	1	2.50	--	5	17.00	10.35	-	-	---	1	2.50	--	5	13.00	6.86	-	-	---	1	0.00	--	5	0.00	0.00	-	o	---
1642C/833	3	5	11.50	7.89	3	0.83	0.83	-	+	0.413	5	11.50	7.89	3	0.83	0.83	-	+	0.413	5	0.00	0.00	3	0.00	0.00	-	o	1.000
4537C/979	3	3	19.17	13.41	4	17.50	6.37	-	+	0.965	3	18.33	13.64	4	15.63	5.34	-	+	0.991	3	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			11.07	10.65		11.77	5.87		+		10.77	10.75		9.80	4.33		-			0.00	0.00		0.00	0.00		o		
Fisher's	Power	0.058			Power-50%	0.240	P-value	0.330 y	Power	0.057			Power-50%	0.224	P-value	0.336	Power	---		Power-50%	---	P-value	0.597					
Stouffer's	Power	0.088			Power-50%	0.315	P-value	0.329	Power	0.080			Power-50%	0.301	P-value	0.339	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-5.363. Page 1. December 15, 1994

Total <i>Fucus gardneri</i> (P)										Adult <i>Fucus gardneri</i> (P) (> 2cm)										Juvenile <i>Fucus gardneri</i> (P) (<= 2cm)									
Site Pair	Mvd	N	=	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	I	CV	D	P	
19C/19	1	5	0.50	0.50	5	1.00	1.00	-	-	0.815	5	0.00	0.00	5	0.00	0.00	-	-	0.000	5	0.50	0.50	5	1.00	1.00	-	-	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	40.42	9.69	4	0.00	0.00	-	+	0.003	6	38.33	9.14	4	0.00	0.00	-	-	0.002	6	2.08	1.19	4	0.00	0.00	-	-	0.092	
Habitat Means			15.63	3.40		0.33	0.33		+			12.77	3.03		0.00	0.00		-			0.87	0.57		0.33	0.33		-		
Fisher's	Power	---			Power-50%	---		P-value	0.015	Power	---			Power-50%	---		P-value	0.013	Power	0.075			Power-50%	0.166		P-value	0.199		
Stouffer's	Power	---			Power-50%	---		P-value	0.007	Power	---			Power-50%	---		P-value	0.006	Power	---			Power-50%	---		P-value	0.089		
19C/19	2	3	27.50	26.26	3	0.83	0.83	-	+	0.351	3	27.50	26.26	3	0.00	0.00	-	+	0.347	3	0.00	0.00	3	0.83	0.83	-	-	0.423	
1642C/833	2	6	15.83	8.03	4	13.75	12.93	-	+	0.747	6	12.08	8.07	4	13.75	12.93	-	-	0.994	6	3.75	3.28	4	0.00	0.00	-	+	0.233	
4537C/979	2	3	83.33	13.10	4	0.00	0.00	-	+	0.027	3	83.33	13.10	4	0.00	0.00	-	+	0.027	3	0.00	0.00	4	0.00	0.00	-	o	1.000	
Habitat Means			42.20	15.80		4.87	4.57		+			40.97	15.83		4.60	4.30		+			1.27	1.10		0.27	0.27		+		
Fisher's	Power	---			Power-50%	---		P-value	0.029	Power	---			Power-50%	---		P-value	0.036	Power	0.000			Power-50%	0.000		P-value	0.406		
Stouffer's	Power	---			Power-50%	---		P-value	0.012	Power	---			Power-50%	---		P-value	0.018	Power	0.000			Power-50%	0.000		P-value	0.359		
19C/19	3	1	2.50	--	5	13.00	6.86	-	-	---	1	2.50	--	5	13.00	6.86	-	-	---	1	0.00	--	5	0.00	0.00	-	o	---	
1642C/833	3	5	11.50	7.89	3	0.83	0.83	-	+	0.413	5	8.00	4.96	3	0.83	0.83	-	+	0.431	5	3.50	3.50	3	0.00	0.00	-	+	0.374	
4537C/979	3	3	16.33	13.64	4	15.63	5.34	-	+	0.991	3	18.33	13.64	4	15.63	5.34	-	+	0.991	3	0.00	0.00	4	0.00	0.00	-	o	1.000	
Habitat Means			10.77	10.75		9.80	4.33		+			9.60	9.30		9.80	4.33		+			1.17	1.75		0.00	0.00		-		
Fisher's	Power	0.058			Power-50%	0.191		P-value	0.336	Power	0.062			Power-50%	0.249		P-value	0.346 y	Power	---			Power-50%	---		P-value	0.315		
Stouffer's	Power	0.083			Power-50%	0.274		P-value	0.339	Power	0.089			Power-50%	0.341		P-value	0.344	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-5.363. Page 2. December 15, 1994

Table C-5.363. Algal Percent Cover. Phaeophyta. Prince William Sound. Exposed Rocky. June 1991. Overstory removed 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	0.00	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		Power	---		Power-50%
Stouffer's	Power		---		Power-50%	---	P-value	0.500		Power	---		Power-50%	---	P-value	0.500		Power	---		Power-50%	---	P-value	0.500		Power	---		Power-50%
19C/19	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	2.50	2.50	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	0.00	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			0.83	0.83		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		Power	---		Power-50%
Stouffer's	Power		---		Power-50%	---	P-value	0.500		Power	---		Power-50%	---	P-value	0.417		Power	---		Power-50%	---	P-value	0.500		Power	---		Power-50%
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	1.25	1.25	-	-	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			0.00	0.00		0.43	0.43		-			0.00	0.00		0.00	0.00		o		
Fisher's	Power		---		Power-50%	---	P-value	0.597		Power	---		Power-50%	---	P-value	0.325		Power	---		Power-50%	---	P-value	0.597		Power	---		Power-50%
Stouffer's	Power		---		Power-50%	---	P-value	0.500		Power	---		Power-50%	---	P-value	0.228		Power	---		Power-50%	---	P-value	0.500		Power	---		Power-50%

(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-5.363. Page 3. December 15, 1994

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	0.00	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		Power	---		Power-50%
Stouffer's	Power		---		Power-50%	---	P-value	0.500		Power	---		Power-50%	---	P-value	0.500		Power	---		Power-50%	---	P-value	0.500		Power	---		Power-50%
19C/19	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	2.50	2.50	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	0.00	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			0.83	0.83		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		Power	---		Power-50%
Stouffer's	Power		---		Power-50%	---	P-value	0.500		Power	---		Power-50%	---	P-value	0.417		Power	---		Power-50%	---	P-value	0.500		Power	---		Power-50%
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	4.00	4.00	-	-	---	
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	1.25	1.25	-	-	0.391	3	0.83	0.83	4	0.63	0.63	-	-	0.846	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.43	0.43		-			0.27	0.40		1.53	1.53		-		
Fisher's	Power		---		Power-50%	---	P-value	0.597		Power	---		Power-50%	---	P-value	0.325		Power	---		Power-50%	---	P-value	0.540		Power	---		Power-50%
Stouffer's	Power		---		Power-50%	---	P-value	0.500		Power	---		Power-50%	---	P-value	0.228		Power	---		Power-50%	---	P-value	0.433		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-5.363. Page 4. December 15, 1994



Table C-5.363. Algal Percent Cover. Phaeophyta. Prince William Sound. Exposed Rocky. June 1991. Overstory removed 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	
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	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	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	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			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			0.655	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	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	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	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			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			0.655	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	4.00	4.00	-	-	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	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	0.00	-	o	1.000
4537C/979	3	3	0.83	0.83	4	0.63	0.63	-	-	0.846	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000
Habitat Means			0.27	0.40		1.53	1.53	-	-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00	0.00		o	
Fisher's	Power		---		Power-50%	---	P-value			0.540 y	Power	---		Power-50%	---	P-value			0.597	Power	---		Power-50%	---	P-value			0.597	
Stouffer's	Power		---		Power-50%	---	P-value			0.433	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	

(b) Elachista, Ketocarpus and Pilayella.

(a) Genera not separated.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.363. Page 5. December 15, 1994

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	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			o			0.00	0.00		0.00			o			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			o			0.00	0.00		0.00			o			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			o			0.00	0.00		0.00			o			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 &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.363. Page 6. December 15, 1994

Table C-5.364. Algal Percent Cover. Rhodophyta. Prince William Sound. Exposed Rocky. June 1991. Overstory removed 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. (AB)											
site	Pair	Mvd	N	C	SE	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	1.00	1.00	-	+	0.888	5	1.50	1.50	5	1.00	1.00	-	+	0.888	5	0.00	0.00	5	0.00	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	4.58	3.06	4	0.63	0.63	-	+	0.440	6	0.00	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				2.03	1.53		0.53	0.53		+			0.50	0.50		0.33	0.33		+			0.00	0.00		0.00	0.00		0.00	o	
Fisher's		Power		0.028		Power-50%		0.062		P-value	0.419	Power		---		Power-50%		---	P-value	0.623	Power		---		Power-50%		---	P-value	0.655	
Stouffer's		Power		0.037		Power-50%		0.115		P-value	0.247	Power		---		Power-50%		---	P-value	0.485	Power		---		Power-50%		---	P-value	0.500	
19C/19		2	3	3.33	1.67	3	0.83	0.83	-	+	0.349	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	5.83	5.83	4	7.50	2.70	-	-	0.386	6	0.00	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	14.17	14.17	4	1.88	1.88	-	+	0.470	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				7.77	7.23		3.40	1.80		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		0.00	o	
Fisher's		Power		0.254		Power-50%		0.176		P-value	0.338	Power		---		Power-50%		---	P-value	0.655	Power		---		Power-50%		---	P-value	0.655	
Stouffer's		Power		0.190		Power-50%		0.296		P-value	0.332	Power		---		Power-50%		---	P-value	0.500	Power		---		Power-50%		---	P-value	0.500	
19C/19		3	1	5.00	--	5	8.50	4.58	-	-	---	1	5.00	--	5	5.00	3.45	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---	
1642C/833		3	5	7.00	5.78	3	11.67	6.51	-	-	0.574	5	0.00	0.00	3	8.33	7.12	-	-	0.274	5	0.00	0.00	3	7.50	7.50	-	-	0.423	
4537C/979		3	3	33.33	30.87	4	7.50	3.68	-	+	0.457	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	
Habitat Means				15.10	18.35		9.23	4.93		+			1.67	0.00		4.87	3.97		-			0.00	0.00		2.50	2.50		-		
Fisher's		Power		0.034		Power-50%		0.080		P-value	0.458	Power		0.087		Power-50%		---	P-value	0.124	Power		---		Power-50%		---	P-value	0.343	
Stouffer's		Power		0.036		Power-50%		0.130		P-value	0.357	Power		---		Power-50%		---	P-value	0.099	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.

Table C 5.364. Page 1. December 15, 1994

Gigartinaeae 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	1.00	1.00	-	-	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	
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		0.33	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	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	3.50	3.50	-	-	---	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	1.25	1.25	-	-	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			0.00	0.00		1.60	1.60		-			0.00	0.00		0.00	0.00		o		
Fisher's	Power		---		Power-50%	---		P-value	0.597	Power	---		Power-50%	---		P-value	0.325			Power	---		Power-50%	---		P-value	0.597		
Stouffer's	Power		---		Power-50%	---		P-value	0.500	Power	---		Power-50%	---		P-value	0.228			Power	---		Power-50%	---		P-value	0.500		

(a) Chondrus, Fildaea, 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-5.364. Page 2. December 15, 1994

Table C-5.364. Algal Percent Cover. Rhodophyta. Prince William Sound. Exposed Rocky. June 1991. Overstory removed June 1990. (Continued.)

Porphyra sp. (A)											Tokiodadendron 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	5	1.50	1.50	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
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	4.58	3.06	4	0.63	0.63	-	+	0.440
Habitat Means			0.50	0.50		0.00	0.00		-			0.00	0.00		0.00	0.00		o			1.53	1.03		0.20	0.20		+	
Fisher's										0.409	Power								0.655	Power	0.009							0.446
Stouffer's										0.408	Power								0.500	Power	0.002							0.259
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	3.33	1.67	3	0.83	0.83	-	+	0.349
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	5.83	5.83	4	7.50	2.70	-	+	0.386
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	14.17	14.17	4	1.88	1.88	-	+	0.470
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			7.77	7.23		3.40	1.80		-	
Fisher's										0.655	Power								0.655	Power	0.250							0.338
Stouffer's										0.500	Power								0.500	Power	0.198							0.332
19C/19	3	1	5.00	--	5	1.50	1.50	-	+	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	3.50	2.18	-	+	---
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	7.00	5.78	3	0.83	0.83	-	+	0.422
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	33.33	30.87	4	4.37	2.77	-	+	0.369
Habitat Means			1.67	0.00		0.77	0.77		-			0.00	0.00		0.00	0.00		o			13.43	18.35		2.90	1.93		+	
Fisher's										0.343	Power								0.597	Power	0.171							0.165
Stouffer's										0.345	Power								0.500	Power	0.255							0.119

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

Table C-5.364, Page 3, December 15, 1994

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	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	0.63	0.63	-	o	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		0.20	0.20		-	
Fisher's	Power		---		Power-50%		---	P-value	0.655	Power	---		Power-50%		---	P-value	0.655	Power	---		Power-50%		---	P-value	0.419			
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value	0.236			
19C/19	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	1.67	1.67	3	0.00	0.00	-	+	0.423	3	1.67	1.67	3	0.83	0.83	-	+	0.821
1642C/833	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	3.75	2.39	-	+	0.191	6	5.42	5.42	4	3.75	2.17	-	+	0.797
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			0.57	0.57		1.27	0.80		-			2.37	2.37		1.53	1.00		+	
Fisher's	Power		---		Power-50%		---	P-value	0.655	Power	0.023		Power-50%		---	P-value	0.364	Power	0.005		Power-50%		---	P-value	0.543			
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power	0.004		Power-50%		---	P-value	0.338	Power	0.005		Power-50%		---	P-value	0.428			
19C/19	3	1	0.00	--	5	0.50	0.50	-	-	---	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	0.83	0.83	-	+	0.423	5	1.00	0.61	3	0.00	0.00	-	+	0.178
4537C/979	3	3	1.67	1.67	4	0.63	0.63	-	+	0.670	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	2.50	2.50	4	0.63	0.63	-	+	0.585
Habitat Means			0.57	0.85		0.37	0.37		+			0.00	0.00		0.27	0.27		-			1.17	1.55		0.20	0.20		+	
Fisher's	Power		---		Power-50%		---	P-value	0.467	Power	---		Power-50%		---	P-value	0.343	Power	0.300		Power-50%		---	P-value	0.121			
Stouffer's	Power		---		Power-50%		---	P-value	0.356	Power	---		Power-50%		---	P-value	0.345	Power	0.331		Power-50%		---	P-value	0.127			

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

Table C-5.364, Page 4, December 15, 1994

Table C-5.364. Algal Percent Cover. Rhodophyta. Prince William Sound. Exposed Rocky. June 1991. Overstory removed June 1990. (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	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	2.92	2.92	4	0.00	0.00	-	-	0.363	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			0.97	0.97		0.00	0.00		-			0.57	0.57		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%	---		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%	---		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	0.42	0.42	4	0.00	0.00	-	+	0.363	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	14.17	14.17	4	1.88	1.88	-	+	0.470	3	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			4.87	4.87		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	0.261	Power	---		Power-50%	---		Power-50%	---		P-value	0.655
Stouffer's		Power	---		Power-50%	---		P-value	0.500	Power	---		Power-50%	---		P-value	0.149	Power	---		Power-50%	---		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	6.00	6.00	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	29.17	29.17	4	3.13	3.13	-	-	0.417	3	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			2.00	3.00		0.67	0.67		-			9.73	14.60		1.37	1.37		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---		P-value	0.315	Power	---		Power-50%	---		P-value	0.340	Power	---		Power-50%	---		Power-50%	---		P-value	0.597
Stouffer's		Power	---		Power-50%	---		P-value	0.329	Power	---		Power-50%	---		P-value	0.241	Power	---		Power-50%	---		Power-50%	---		P-value	0.500

(a) Genera not separated.

(b) Genera not separated.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.364. Page 5, December 15, 1994

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	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	Power	---		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	Power	---		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	Power	---		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	Power	---		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	2.50	2.50	-	-	0.423	5	0.00	0.00	3	2.50	2.50	-	-	0.423	5	0.00	0.00	3	0.00	0.00	-	o	1.000		
4537C/979	3	3	0.00	0.00	4	0.63	0.63	-	-	0.391	3	0.00	0.00	4	0.63	0.63	-	-	0.391	3	0.00	0.00	4	0.00	0.00	-	o	1.000		
Habitat Means			0.00	0.00		1.03	1.03		-			0.00	0.00		1.03	1.03		-			0.00	0.00		0.00	0.00		o			
Fisher's	Power		---		Power-50%	---	P-value		0.173	Power	---		Power-50%	---	P-value		0.173	Power	---		Power-50%	---	P-value		0.173	Power	---		P-value	0.397
Stouffer's	Power		---		Power-50%	---	P-value		0.127	Power	---		Power-50%	---	P-value		0.127	Power	---		Power-50%	---	P-value		0.127	Power	---		P-value	0.500

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.364. Page 6, December 15, 1994

Table C-5.364. Algal Percent Cover. Rhodophyta. Prince William Sound. Exposed Rocky. June 1991. Overstory removed 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
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	1.25	1.25	-	-	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			0.00	0.00		0.43	0.43		-			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value	0.597	Power	---		Power-50%		---	P-value	0.325	Power	---		Power-50%		---	P-value	0.597			
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value	0.228	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-5.364. Page 7. December 15, 1994

Site Pair	Mvd	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	
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	1.25	1.25	-	-	0.391										
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.43	0.43		-											
Fisher's	Power		---		Power-50%		---	P-value	0.597	Power	---		Power-50%		---	P-value	0.325	Power	---		Power-50%		---	P-value					
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value	0.228	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-5.364. Page 8. December 15, 1994

**Table C-5.365. Algal Percent Cover. Invertebrates. Prince William Sound. Exposed Rocky. June 1991. Overstory removed 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										
N										N								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	4.50	2.00	5	1.50	1.00	-	+	0.326	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	26.25	15.70	-	-	0.187	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	0.83	0.83	4	1.25	1.25	-	-	0.779	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o		1.77	0.93		9.70	6.00		-			0.00	0.00		0.00	0.00		o		
Fisher's	Power	---			Power-50%	---	P-value	0.655		Power	0.057		Power-50%	0.178	P-value	0.322			Power	---		Power-50%	---	P-value	0.655			
Stouffer's	Power	---			Power-50%	---	P-value	0.500		Power	0.030		Power-50%	0.191	P-value	0.270			Power	---		Power-50%	---	P-value	0.500			
19C/19	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	14.17	6.82	3	27.50	20.46	-	-	0.782	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	6.25	3.91	4	39.38	17.63	-	-	0.084	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	2.50	1.77	-	-	0.204	3	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o		6.83	3.57		23.13	13.30		-			0.00	0.00		0.00	0.00		o		
Fisher's	Power	---			Power-50%	---	P-value	0.655		Power	---		Power-50%	---	P-value	0.047			Power	---		Power-50%	---	P-value	0.655			
Stouffer's	Power	---			Power-50%	---	P-value	0.500		Power	---		Power-50%	---	P-value	0.025			Power	---		Power-50%	---	P-value	0.500			
19C/19	3	1	0.00	--	5	0.00	0.00	-	o	---	1	60.00	--	5	20.50	12.95	-	+	---	1	0.00	--	5	1.00	1.00	-	-	---
1642C/833	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	7.50	5.81	3	60.00	30.31	-	-	0.101	5	0.00	0.00	3	1.67	1.67	-	-	0.423
4537C/979	3	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		22.50	2.90		28.30	15.90		-			0.00	0.00		0.90	0.90		-		
Fisher's	Power	---			Power-50%	---	P-value	0.597		Power	---		Power-50%	---	P-value	0.056			Power	---		Power-50%	---	P-value	0.343			
Stouffer's	Power	---			Power-50%	---	P-value	0.500		Power	---		Power-50%	---	P-value	0.060			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.

Mytilus										Nucella lamellosa										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	2.00	1.46	5	0.00	0.00	-	+	0.198	
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	-	6	0.00	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	1.25	1.25	-	-	0.779	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.93	0.77		0.43	0.43		+		
Fisher's	Power		---		Power-50%	---	P-value	0.655		Power	---		Power-50%	---	P-value	0.655			Power	0.014		Power-50%	0.035	P-value	0.321				
Stouffer's	Power		---		Power-50%	---	P-value	0.500		Power	---		Power-50%	---	P-value	0.500			Power	0.023		Power-50%	0.056	P-value	0.460				
19C/19	2	3	5.00	5.00	3	0.00	0.00	-	-	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	0.42	0.42	4	3.13	3.13	-	-	0.440	6	0.00	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	0.63	0.63	-	-	0.391	
Habitat Means			1.80	1.80		1.03	1.03		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.20	0.20		-		
Fisher's	Power		---		Power-50%	---	P-value	0.545		Power	---		Power-50%	---	P-value	0.655			Power	---		Power-50%	---	P-value	0.419				
Stouffer's	Power		---		Power-50%	---	P-value	0.564		Power	---		Power-50%	---	P-value	0.500			Power	---		Power-50%	---	P-value	0.236				
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	0.00	0.00	3	0.00	0.00	-	o	1.000	
4537C/979	3	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	3	0.00	0.00	4	0.00	0.00	-	o	1.000	
Habitat Means			0.60	0.90		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.33	0.33		o		
Fisher's	Power		---		Power-50%	---	P-value	0.167		Power	---		Power-50%	---	P-value	0.597			Power	---		Power-50%	---	P-value	0.597	y			
Stouffer's	Power		---		Power-50%	---	P-value	0.128		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-5.365. Algal Percent Cover. Invertebrates. Prince William Sound. Exposed Rocky. June 1991. Overstory removed 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					
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		Power	---	Power-50%		---	P-value		Power	---	P-value		
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power	---	Power-50%		---	P-value		Power	---	Power-50%		---	P-value		Power	---	Power-50%		---	P-value		Power	---	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		Power	---	Power-50%		---	P-value		Power	---	P-value		
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power	---	Power-50%		---	P-value		Power	---	Power-50%		---	P-value		Power	---	Power-50%		---	P-value		Power	---	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		Power	---	Power-50%		---	P-value		Power	---	P-value		
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power	---	Power-50%		---	P-value		Power	---	Power-50%		---	P-value		Power	---	Power-50%		---	P-value		Power	---	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-5.365, Page 2, December 15, 1994

Table C-5.366. Algal Percent Cover. Substrates. Prince William Sound. Exposed Rocky. June 1991. Overstory removed 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.

site Pair	Mvd	N	Rock								Mud								Sand									
			C	SE	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	91.50	2.45	5	85.00	8.37	-	+	0.835	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	73.75	15.70	-	+	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
4537C/979	1	6	53.33	11.79	4	96.88	1.87	-	-	0.009	6	0.00	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			81.43	4.93		85.23	8.67					0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.071		Power-50%	0.781	P-value		0.398 <sub>x</sub>	Power	---		Power-50%	---	P-value		0.655	Power	---		Power-50%	---	P-value		0.655			
Stouffer's		Power	0.005		Power-50%	0.855	P-value		0.940	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.500			
19C/19	2	3	47.50	20.05	3	70.83	21.03	-	-	0.381	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	71.67	11.65	4	36.25	16.47	-	+	0.094	6	0.00	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	2.50	2.50	4	95.00	1.77	-	-	0.000	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			40.57	11.43		67.37	13.10		-			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		0.001 <sub>x</sub>	Power	---		Power-50%	---	P-value		0.655	Power	---		Power-50%	---	P-value		0.655			
Stouffer's		Power	---		Power-50%	---	P-value		0.004	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.500			
19C/19	3	1	32.50	--	5	38.00	18.56	-	-	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---
1642C/833	3	5	70.50	15.56	3	25.83	25.83	-	+	0.100	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	43.33	21.03	4	63.75	12.27	-	-	0.373	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			48.77	18.30		42.53	18.90		+			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%	0.269	P-value		0.171	Power	---		Power-50%	---	P-value		0.597	Power	---		Power-50%	---	P-value		0.597			
Stouffer's		Power	0.040		Power-50%	0.328	P-value		0.482	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.

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Site Pair	Mvd	Shell Fragments									Water								Zostera/Phyllospadix										
		N	C	SE	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			o			0.00	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	ow	---		Power-50%		---	P-value		0.655	ow	---		Power-50%		---	P-value		0.655	
Stouffer's	Power		---		Power-50%		---	P-value		0.500	ow	---		Power-50%		---	P-value		0.500	ow	---		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			o			0.00	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	ow	---		Power-50%		---	P-value		0.655	ow	---		Power-50%		---	P-value		0.655	
Stouffer's	Power		---		Power-50%		---	P-value		0.500	ow	---		Power-50%		---	P-value		0.500	ow	---		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	-	+	1.000	5	2.50	2.50	3	0.00	0.00	-	+	0.374	5	0.00	0.00	3	0.00	0.00	-	+	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			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	ow	---		Power-50%		---	P-value		0.315	ow	---		Power-50%		---	P-value		0.597	
Stouffer's	Power		---		Power-50%		---	P-value		0.500	ow	---		Power-50%		---	P-value		0.329	ow	---		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-5.366. Page 2. December 15, 1994



Table C-5.366. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Exposed Rocky. June 1991. Overstory removed 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	
1642C/833	1	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	99.50	0.50	4	73.75	15.70	-	+	0.214										
4537C/979	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	53.33	11.79	4	96.88	1.87	-	-	0.009										
Habitat Means			0.00	0.00		0.00	0.00		o			81.43	4.93		85.23	8.67		+											
Fisher's	Power		---		Power-50%		---	P-value	0.655	Power	0.069		Power-50%	0.812	P-value	0.398 <sub>xy</sub>	Power	---		Power-50%		---	P-value						
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power	0.007		Power-50%	0.853	P-value	0.940	Power	---		Power-50%		---	P-value						
19C/19	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	47.50	20.05	3	70.83	21.03	-	-	0.381										
1642C/833	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	71.67	11.65	4	36.25	16.47	-	+	0.094										
4537C/979	2	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	2.50	2.50	4	95.00	1.77	-	-	0.000										
Habitat Means			0.00	0.00		0.00	0.00		o			40.57	11.43		67.37	13.10		-											
Fisher's	Power		---		Power-50%		---	P-value	0.655	Power	---		Power-50%	---	P-value	0.001 <sub>x</sub>	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						
19C/19	3	1	0.00	--	5	0.00	0.00	-	o	---	1	32.50	--	5	38.00	18.56	-	-	---										
1642C/833	3	5	2.50	2.50	3	0.00	0.00	-	+	0.374	5	73.00	14.28	3	25.83	25.83	-	+	0.082										
4537C/979	3	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	43.33	21.03	4	63.75	12.27	-	-	0.373										
Habitat Means			0.83	1.25		0.00	0.00		+			49.60	17.65		42.53	18.90		+											
Fisher's	Power		---		Power-50%		---	P-value	0.315	Power	0.067		Power-50%	0.288	P-value	0.147	Power	---		Power-50%		---	P-value						
Stouffer's	Power		---		Power-50%		---	P-value	0.329	Power	0.041		Power-50%	0.361	P-value	0.464	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 5.366, Page 3, December 15, 1994

**Table C-5.367. Algal Percent Cover, Totals and Seasonal Groups, Prince William Sound, Exposed Rocky, July 1991. Overstory removed August 1990.**  
 Results of statistical differences between means >F 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	0.04	0.04	5	0.00	0.00	-	+	0.391	4	0.50	0.50	5	0.20	0.20	-	-	0.563	4	5.62	5.63	5	12.00	12.00	-	-	0.821
1642C/833	1	6	0.00	0.00	4	0.13	0.07	-	-	0.185	6	0.17	0.17	4	1.25	0.48	-	-	0.037	6	16.67	16.67	4	40.00	22.08	-	-	0.354
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	22.50	16.51	5	0.00	0.00	-	+	0.156
Habitat Means			0.03	0.03		0.04	0.03		+			0.49	0.35		0.48	0.23		+			14.93	12.93		17.33	11.37		-	
Fisher's			Power	0.012		Power-50%	---		P-value	0.339 y	Power	0.129		Power-50%	0.270		P-value	0.199x	Power	0.022		Power-50%	0.119		P-value	0.492		
Stouffer's			Power	0.003		Power-50%	---		P-value	0.370	Power	0.021		Power-50%	0.387		P-value	0.298	Power	0.003		Power-50%	0.240		P-value	0.753		
19C/19	2	2	0.00	0.00	5	0.12	0.05	-	-	0.090	2	0.50	0.50	5	1.80	0.37	-	-	0.114	2	45.00	45.00	5	36.50	19.25	-	-	0.968
1642C/833	2	2	0.00	0.00	2	0.00	0.00	-	o	1.000	2	1.00	0.00	2	0.50	0.50	-	+	0.500	2	61.25	18.75	2	2.50	2.50	-	-	0.073
4537C/979	2	6	0.20	0.07	5	0.00	0.00	-	-	0.031	6	1.83	0.48	5	0.20	0.20	-	+	0.017	6	58.75	15.58	5	1.50	1.50	-	+	0.010
Habitat Means			0.07	0.02		0.04	0.02		+			1.11	0.33		0.83	0.36		+			55.03	26.47		13.50	7.77		+	
Fisher's			Power	0.218		Power-50%	0.146		P-value	0.133x	Power	---		Power-50%	---		P-value	0.053	Power	---		Power-50%	---		P-value	0.005		
Stouffer's			Power	---		Power-50%	---		P-value	0.086	Power	---		Power-50%	---		P-value	0.028	Power	---		Power-50%	---		P-value	0.001		
19C/19	3	0	--	--	4	0.21	0.15	-	---	---	0	--	--	4	2.25	1.65	-	---	---	0	--	--	4	46.88	27.18	-	---	---
1642C/833	3	4	0.40	0.15	2	0.31	0.31	-	+	0.785	4	3.50	1.04	2	4.00	3.00	-	-	0.846	4	70.63	16.72	2	58.75	41.25	-	+	0.893
4537C/979	3	3	0.23	0.16	5	0.26	0.12	-	-	0.873	3	2.33	0.88	5	2.60	1.03	-	-	0.866	3	42.50	20.05	5	56.50	19.71	-	-	0.697
Habitat Means			0.31	0.15		0.26	0.19		+			2.92	0.96		2.95	1.89		-			56.55	18.40		54.07	29.40		-	
Fisher's			Power	0.066		Power-50%	0.090		P-value	0.555	Power	0.040		Power-50%	0.148		P-value	0.494	Power	0.031		Power-50%	0.137		P-value	0.510 y		
Stouffer's			Power	0.059		Power-50%	0.030		P-value	0.501	Power	0.040		Power-50%	0.030		P-value	0.404	Power	0.027		Power-50%	0.023		P-value	0.393		

(a) Modified Shannon Index.

(b) Taxa richness calculations are explained in the methods.

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

Table C-5.367, Page 1, December 15, 1994

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	8.75	6.50	5	0.00	0.00	-	+	0.215	4	85.63	8.32	5	88.00	12.00	-	-	0.682	4	5.62	5.63	5	12.00	12.00	-	-	0.821				
1642C/833	1	6	0.00	0.00	4	4.37	2.95	-	-	0.198	6	83.33	16.67	4	55.63	21.17	-	-	0.296	6	16.67	16.67	4	28.75	14.05	-	-	0.543				
4537C/979	1	5	1.50	1.50	5	0.00	0.00	-	+	0.374	5	76.00	17.99	5	100.00	0.00	-	-	0.170	5	18.50	12.39	5	0.00	0.00	-	+	0.129				
Habitat Means			3.43	2.67		1.47	1.00					81.63	14.33		81.20	11.07		-			13.60	11.63		13.60	8.70		-					
Fisher's	Power		0.018		Power-50%	0.036	P-value		0.236	Power	0.159		Power-50%	0.581	P-value		0.285	y	Power	0.025		Power-50%	0.123	P-value		0.607	y					
Stouffer's	Power		0.006		Power-50%	0.054	P-value		0.326	Power	0.087		Power-50%	0.628	P-value		0.225	y	Power	0.001		Power-50%	0.235	P-value		0.821						
19C/19	2	2	0.00	0.00	5	4.00	2.92	-	-	0.199	2	55.00	45.00	5	59.50	17.70	-	-	0.862	2	45.00	45.00	5	31.90	19.33	-	+	0.842				
1642C/833	2	2	10.00	10.00	2	28.75	21.25	-	-	0.476	2	28.75	28.75	2	68.75	18.75	-	-	0.359	2	61.25	18.75	2	2.50	2.50	-	+	0.073				
4537C/979	2	6	9.58	4.49	5	0.00	0.00	-	+	0.079	6	31.67	12.28	5	98.50	1.50	-	-	0.001	6	57.92	15.64	5	0.00	0.00	-	-	0.012				
Habitat Means			6.53	4.83		10.93	8.07		-			38.50	28.70		75.60	12.67		-			54.73	26.47		11.17	7.27		-					
Fisher's	Power		0.046		Power-50%	0.177	P-value		0.271x	Power	---		Power-50%	---	P-value		0.001	Power	---		Power-50%	---	P-value		0.005							
Stouffer's	Power		0.007		Power-50%	0.184	P-value		0.788	Power	---		Power-50%	---	P-value		0.000	Power	---		Power-50%	---	P-value		0.001							
19C/19	3	0	--	--	4	33.75	23.57	-	---	---	0	--	--	4	19.37	15.49	-	---	---	0	--	--	4	38.13	22.06	-	---	---				
1642C/833	3	4	11.25	11.25	2	0.00	0.00	-	+	0.391	4	18.12	6.72	2	41.25	41.25	-	-	0.667	4	40.63	8.25	2	28.75	28.75	-	+	0.431				
4537C/979	3	3	3.33	3.33	5	9.00	9.00	-	-	0.857	3	54.17	18.84	5	34.50	14.67	-	+	0.394	3	29.17	7.95	5	42.00	19.00	-	-	0.736				
Habitat Means			7.30	7.30		14.27	10.87		+			36.15	12.75		31.73	23.83		+			34.90	8.15		36.30	23.30		+					
Fisher's	Power		0.011		Power-50%	---	P-value		0.357	y	Power	0.184		Power-50%	0.193	P-value		0.398	Power	0.175		Power-50%	0.312	P-value		0.408	y					
Stouffer's	Power		0.026		Power-50%	---	P-value		0.394	Power	0.183		Power-50%	0.034	P-value		0.300	Power	0.123		Power-50%	0.011	P-value		0.461							

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

Table C-5.367, Page 2, December 15, 1994

Table C-5.367. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Exposed Rocky. July 1991. Overstory removed August 1990. (Continued.)

site Pair	Mvd	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	
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	11.25	8.26	-	-	0.214	6	0.00	0.00	4	0.00	0.00	-	o	1.000										
4537C/979	1	5	4.00	4.00	5	0.00	0.00	-	-	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000										
Habitat Means			1.33	1.33		3.77	2.77		-			0.00	0.00		0.00	0.00		o											
Fisher's	Power		0.006		Power-50%		---	P-value	0.393	Power	---		Power-50%		---	P-value	0.655	Power	---		Power-50%		---	P-value					
Stouffer's	Power		0.000		Power-50%		---	P-value	0.559	Power	---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value					
19C/19	2	2	0.00	0.00	5	5.50	2.00	-	-	0.027	2	0.00	0.00	5	0.50	0.50	-	-	0.374										
1642C/833	2	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										
4537C/979	2	6	0.83	0.53	5	1.50	1.50	-	-	0.968	6	0.42	0.42	5	0.00	0.00	-	+	0.363										
Habitat Means			0.27	0.17		2.33	1.17		-			0.13	0.13		0.17	0.17		+											
Fisher's	Power		---		Power-50%		---	P-value	0.075	Power	---		Power-50%		---	P-value	0.517 y	Power	---		Power-50%		---	P-value					
Stouffer's	Power		0.333		Power-50%		0.020	P-value	0.270	Power	---		Power-50%		---	P-value	0.298	Power	---		Power-50%		---	P-value					
19C/19	3	0	--	--	4	8.75	5.15	-	---	0	--	--	4	1.25	1.25	-	---												
1642C/833	3	4	30.00	10.46	2	30.00	12.50	-	o	0.843	4	27.50	9.30	2	8.75	8.75	-	+	0.384										
4537C/979	3	3	13.33	12.10	5	14.50	9.57	-	-	0.954	3	0.00	0.00	5	4.00	4.00	-	-	0.374										
Habitat Means			21.65	11.30		17.77	9.10		-			13.75	4.65		4.70	4.70		-											
Fisher's	Power		0.046		Power-50%		0.027	P-value	0.631 y	Power	0.007		Power-50%		0.000	P-value	0.437 y	Power	---		Power-50%		---	P-value					
Stouffer's	Power		0.057		Power-50%		0.008	P-value	0.519	Power	0.001		Power-50%		0.000	P-value	0.367	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-5.367, Page 3, December 15, 1994

**Table C-5.368. Algal Percent Cover. Chlorophyta. Prince William Sound. Exposed Rocky. July 1991. Overstory removed 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	--	-	--	--	-	--	-			
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	0.00	0.00	5	0.00	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	0.00	0.00	4	0.00	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	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	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-50%	---		P-value	0.655			
Stouffer's	Power		---		Power-50%	---		P-value	0.500		Power	---		Power-50%	---		P-value	0.500		---		Power-50%	---		P-value	0.500			
19C/19	2	2	0.00	0.00	5	0.50	0.50	-	-	0.374	2	0.00	0.00	5	0.50	0.50	-	-	0.374	0.00	0.00	5	0.50	0.50	0.50	-	-	0.374	
1642C/833	2	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	0.00	0.00	2	0.00	0.00	0.00	-	o	1.000	
4537C/979	2	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	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000	
Habitat Means			0.13	0.13		0.17	0.17		+			0.00	0.00		0.17	0.17		-		0.00	0.00		0.17	0.17		-			
Fisher's	Power		---		Power-50%	---		P-value	0.517		Power	---		Power-50%	---		P-value	0.409		---		Power-50%	---		P-value	0.409			
Stouffer's	Power		---		Power-50%	---		P-value	0.298		Power	---		Power-50%	---		P-value	0.408		---		Power-50%	---		P-value	0.408			
19C/19	3	0	--	--	4	1.25	1.25	-	---	---	0	--	--	4	1.25	1.25	-	---	---	--	--	4	1.25	1.25	--	--	---	---	
1642C/833	3	4	20.00	7.84	2	0.00	0.00	-	+	0.066	4	0.00	0.00	2	0.00	0.00	-	o	1.000	0.00	0.00	2	0.00	0.00	0.00	-	o	1.000	
4537C/979	3	3	0.00	0.00	5	9.00	5.57	-	-	0.179	3	0.00	0.00	5	4.00	4.00	-	-	0.374	0.00	0.00	5	4.00	4.00	--	--	0.374		
Habitat Means			10.00	3.90		3.43	2.30		+			0.00	0.00		1.77	1.77		-		0.00	0.00		1.77	1.77		-			
Fisher's	Power		0.289		Power-50%	0.000		P-value	0.135		Power	---		Power-50%	---		P-value	0.315		---		Power-50%	---		P-value	0.315			
Stouffer's	Power		0.048		Power-50%	0.000		P-value	0.600		Power	---		Power-50%	---		P-value	0.220		---		Power-50%	---		P-value	0.220			

(a) *Monostroma*, *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.

Table C-5.368. Page 1. December 15, 1994

Morphological Group: <i>Fine Filamentous Greens</i>										<i>Acrosiphonia</i> sp. (A)										<i>Chaetomorpha/Rhizoclonium</i> (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	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	0.00		o		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	0.655		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	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	
4537C/979	2	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	
Habitat Means			0.13	0.13		0.00	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	0.223		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	0.00	-	---	---
1642C/833	3	4	20.00	7.84	2	0.00	0.00	-	+	0.066	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	0.00	0.00	2	0.00	0.00	0.00	-	o	1.000
4537C/979	3	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	0.00	-	o	1.000
Habitat Means			10.00	3.90		1.67	1.67		+			0.00	0.00		1.67	1.67		-			0.00	0.00		0.00	0.00	0.00		o	
Fisher's	Power		0.254		Power-50%	0.000		P-value	0.124		Power	---		Power-50%	---		P-value	0.315		Power	---		Power-50%	---		P-value	0.597		
Stouffer's	Power		0.095		Power-50%	0.000		P-value	0.444		Power	---		Power-50%	---		P-value	0.220		Power	---		Power-50%	---		P-value	0.500		

(a) Genus 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-5.368. Page 2. December 15, 1994

Table C-5.368. Algal Percent Cover. Chlorophyta. Prince William Sound. Exposed Rocky. July 1991. Overstory removed 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
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	0.00		o			0.00	0.00	0.00	0.00	0.00		o			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	0.655	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	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
4537C/979	2	6	0.42	0.42	5	0.00	0.00	-	o	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
Habitat Means			0.13	0.13	0.00	0.00	0.00		+			0.00	0.00	0.00	0.00	0.00		o			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	0.655	Power		---		Power-50%		---	P-value	0.655	
Stouffer's	Power		---		Power-50%		---	P-value	0.223	Power		---		Power-50%		---	P-value	0.500	Power		---		Power-50%		---	P-value	0.500	
19C/19	3	0	--	--	4	0.00	0.00	-	o	---	0	--	--	4	0.00	0.00	-	o	---	0	--	--	4	0.00	0.00	-	o	---
1642C/833	3	4	20.00	7.84	2	0.00	0.00	-	o	0.066	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			10.00	3.90	0.00	0.00	0.00		-			0.00	0.00	0.00	0.00	0.00		o			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	0.597	Power		---		Power-50%		---	P-value	0.597	
Stouffer's	Power		---		Power-50%		---	P-value	0.181	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-5.368. Page 3. December 15, 1994

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	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			o			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	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									
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			o			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	-	o	---	0	--	--	4	0.00	0.00	-	o	---									
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			o			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-5.368. Page 4. December 15, 1994

Table C-5.369. Algal Percent Cover. Phaeophyta. Prince William Sound. Exposed Rocky. July 1991. Overstory removed 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	0.63	0.63	5	12.00	12.00	-	-	0.522	4	0.63	0.63	5	12.00	12.00	-	-	0.522	4	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000			
1642C/833	1	6	16.67	16.67	4	25.00	15.68	-	-	0.737	6	16.67	16.67	4	25.00	15.68	-	-	0.737	6	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000			
4537C/979	1	5	22.50	16.51	5	0.00	0.00	-	+	0.156	5	18.50	12.59	5	0.00	0.00	-	+	0.129	5	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000			
Habitat Means			13.27	11.27		12.33	9.23		-			11.93	9.97		12.33	9.23		-			0.00	0.00		0.00	0.00	0.00		o				
Fisher's	Power		0.011		Power-50%	0.104	P-value	0.564	y		Power	0.009		Power-50%	0.136	P-value	0.567			Power	---		Power-50%	---	P-value	0.655						
Stouffer's	Power		0.002		Power-50%	0.218	P-value	0.805			Power	0.001		Power-50%	0.262	P-value	0.827			Power	---		Power-50%	---	P-value	0.500						
19C/19	2	2	45.00	45.00	5	32.00	17.76	-	+	0.884	2	45.00	45.00	5	30.00	18.47	-	+	0.801	2	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000			
1642C/833	2	2	61.25	18.75	2	2.50	2.50	-	+	0.073	2	61.25	18.75	2	2.50	2.50	-	+	0.073	2	0.00	0.00	2	0.00	0.00	0.00	-	o	1.000			
4537C/979	2	6	27.08	9.56	5	0.00	0.00	-	+	0.014	6	27.08	9.56	5	0.00	0.00	-	+	0.014	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000			
Habitat Means			44.47	24.47		11.50	6.77		+			44.47	24.47		10.83	7.00		-			0.00	0.00		0.00	0.00	0.00		o				
Fisher's	Power		---		Power-50%	---	P-value	0.006			Power	---		Power-50%	---	P-value	0.005			Power	---		Power-50%	---	P-value	0.655						
Stouffer's	Power		---		Power-50%	---	P-value	0.002			Power	---		Power-50%	---	P-value	0.001			Power	---		Power-50%	---	P-value	0.500						
19C/19	3	0	--	--	4	23.13	19.19	-	---	0	--	--	4	23.13	19.19	-	---	0	--	0	--	--	4	0.00	0.00	0.00	-	---	---			
1642C/833	3	4	35.00	10.10	2	17.50	17.50	-	-	0.289	4	26.87	6.95	2	17.50	17.50	-	+	0.381	4	0.00	0.00	2	0.00	0.00	0.00	-	o	1.000			
4537C/979	3	3	16.67	7.41	5	37.00	20.35	-	-	0.646	3	15.83	8.21	5	37.00	20.35	-	-	0.573	3	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000			
Habitat Means			25.85	8.75		25.87	19.03		+			21.35	7.60		25.87	19.03		+			0.00	0.00		0.00	0.00	0.00		o				
Fisher's	Power		0.074		Power-50%	0.114	P-value	0.325	y		Power	0.092		Power-50%	0.156	P-value	0.407	y		Power	---		Power-50%	---	P-value	0.597						
Stouffer's	Power		0.061		Power-50%	0.014	P-value	0.449			Power	0.070		Power-50%	0.003	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-5.369. Page 1. December 15, 1994

Total <i>Fucus gardneri</i> (P)											Adult <i>Fucus gardneri</i> (P) (> 2cm)											Juvenile <i>Fucus gardneri</i> (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	0.63	0.63	5	12.00	12.00	-	-	0.522	4	0.63	0.63	5	12.00	12.00	-	-	0.522	4	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000			
1642C/833	1	6	16.67	16.67	4	25.00	15.68	-	-	0.737	6	16.67	16.67	4	23.13	15.39	-	-	0.775	6	0.00	0.00	4	1.88	1.88	-	-	0.391				
4537C/979	1	5	18.50	12.59	5	0.00	0.00	-	+	0.129	5	13.50	13.50	5	0.00	0.00	-	+	0.374	5	5.00	3.16	5	0.00	0.00	0.00	-	+	0.181			
Habitat Means			11.93	9.97		12.33	9.23		-			10.27	10.27		11.70	9.13		-			1.67	1.07		0.63	0.63		+					
Fisher's	Power		0.013		Power-50%	0.131	P-value	0.567			Power	0.017		Power-50%	---	P-value	0.544			Power	0.008		Power-50%	0.014	P-value	0.357						
Stouffer's	Power		0.001		Power-50%	0.268	P-value	0.827			Power	0.012		Power-50%	---	P-value	0.670			Power	0.003		Power-50%	0.006	P-value	0.239						
19C/19	2	2	45.00	45.00	5	30.00	18.47	-	+	0.801	2	45.00	45.00	5	30.00	18.47	-	+	0.801	2	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000			
1642C/833	2	2	61.25	18.75	2	2.50	2.50	-	+	0.073	2	61.25	18.75	2	2.50	2.50	-	+	0.073	2	0.00	0.00	2	0.00	0.00	0.00	-	o	1.000			
4537C/979	2	6	27.08	9.56	5	0.00	0.00	-	+	0.014	6	27.08	9.56	5	0.00	0.00	-	+	0.014	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000			
Habitat Means			44.47	24.47		10.83	7.00		+			44.47	24.47		10.83	7.00		-			0.00	0.00		0.00	0.00	0.00		o				
Fisher's	Power		---		Power-50%	---	P-value	0.005			Power	---		Power-50%	---	P-value	0.005			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						
19C/19	3	0	--	--	4	23.13	19.19	-	---	0	--	--	4	23.13	19.19	-	---	0	--	0	--	--	4	0.00	0.00	0.00	-	---				
1642C/833	3	4	26.87	6.95	2	17.50	17.50	-	+	0.381	4	26.25	7.18	2	17.50	17.50	-	+	0.401	4	0.63	0.63	2	0.00	0.00	0.00	-	+	0.391			
4537C/979	3	3	15.83	8.21	5	37.00	20.35	-	-	0.573	3	15.83	8.21	5	37.00	20.35	-	-	0.573	3	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000			
Habitat Means			21.35	7.60		25.87	19.03		+			21.05	7.70		25.87	19.03		+			0.30	0.30		0.00	0.00	0.00		+				
Fisher's	Power		0.092		Power-50%	0.160	P-value	0.407	y		Power	0.092		Power-50%	0.167	P-value	0.421	y		Power	---		Power-50%	---	P-value	0.325						
Stouffer's	Power		0.066		Power-50%	0.003	P-value	0.522			Power	0.067		Power-50%	0.006	P-value	0.529			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-5.369. Page 2. December 15, 1994

Table C-5.369. Algal Percent Cover. Phaeophyta. Prince William Sound. Exposed Rocky. July 1991. Overstory removed August 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	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	4.00	4.00	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	0.00	0.00	0.00		o			1.33	1.33	0.00	0.00	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		0.409	Power		---		Power-50%	---	P-value		0.655			
Stouffer's	Power		---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.228	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	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	
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	0.00		o			0.00	0.00	0.00	0.00	0.00		o			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		0.655	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	0.00	-	---	0	--	--	4	0.00	0.00	0.00	-	---	0	--
1642C/833	3	4	0.00	0.00	2	0.00	0.00	-	o	1.000	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	
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	0.00		o			0.30	0.30	0.00	0.00	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		0.325	Power		---		Power-50%	---	P-value		0.597			
Stouffer's	Power		---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.335	Power		---		Power-50%	---	P-value		0.500			

(a) Data from Prince of Stipes without overstory.

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

Table C-5.365. Page 3. December 15, 1994

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	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	4.00	4.00	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	0.00	0.00	0.00		o		1.33	1.33	0.00	0.00	0.00	0.00		+		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		0.409	Power	---		Power-50%	---	P-value		0.655				
Stouffer's	Power		---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.228	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	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	
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	0.00		o		0.00	0.00	0.00	0.00	0.00	0.00		o		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		0.655	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	0.00	-	---	0	--	--	4	0.00	0.00	0.00	-	---	0	--
1642C/833	3	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	0.63	0.63	2	0.00	0.00	-	+	0.391	4	7.50	4.33	2	0.00	0.00	-	+	0.182	
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	0.00		o		0.30	0.30	0.00	0.00	0.00	0.00		+		3.75	2.15	0.00	0.00	0.00	0.00		+		
Fisher's	Power		---		Power-50%	---	P-value		0.597	Power	---		Power-50%	---	P-value		0.325	Power	0.000		Power-50%	0.000		Power-50%	0.000	P-value		0.186	
Stouffer's	Power		---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.335	Power	0.000		Power-50%	0.000		Power-50%	0.000	P-value		0.254	

(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-5.369. Page 4. December 15, 1994

Table C-5.369. Algal Percent Cover. Phaeophyta. Prince William Sound. Exposed Rocky. July 1991. Overstory removed August 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							
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	Power	---		Power-50%		---	P-value	0.500		
Stouffer's	Power		---		Power-50%		---	P-value	0.500	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	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							
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	Power	---		Power-50%		---	P-value	0.500		
Stouffer's	Power		---		Power-50%		---	P-value	0.500	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	0.00	-	---	0	--	--	4	0.00	0.00	0.00	-	---	0	--	--	4	0.00	0.00	-	---
1642C/833	3	4	7.50	4.33	2	0.00	0.00	-	+	0.182	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	0.83	0.83	5	0.00	0.00	-	+	0.423	3	0.83	0.83	5	0.00	0.00	-	+	0.423							
Habitat Means			3.75	2.15		0.00	0.00		.			0.40	0.40		0.00	0.00		+			0.40	0.40		0.00	0.00		+								
Fisher's	Power		0.000		Power-50%		0.000	P-value	0.186	Power	---		Power-50%		---	P-value	0.343	Power	---		Power-50%		---	P-value	0.343	Power	---		Power-50%		---	P-value	0.243		
Stouffer's	Power		0.000		Power-50%		0.000	P-value	0.254	Power	---		Power-50%		---	P-value	0.243	Power	---		Power-50%		---	P-value	0.243	Power	---		Power-50%		---	P-value	0.243		

(b) Elachista, Entocarpus and Pilayella.

(a) Genera not separated.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.369. Page 5. December 15, 1994

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	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			o			0.00	0.00		0.00			o			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	Power	---		Power-50%		---	P-value	0.500		
Stouffer's	Power		---		Power-50%		---	P-value	0.500	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	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							
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			o			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	Power	---		Power-50%		---	P-value	0.500		
Stouffer's	Power		---		Power-50%		---	P-value	0.408	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	0.00	-	---	0	--	--	4	0.00	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			o			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	Power	---		Power-50%		---	P-value	0.500		
Stouffer's	Power		---		Power-50%		---	P-value	0.500	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 &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.369. Page 5. December 15, 1994



Table C-5.370. Algal Percent Cover. Rhodophyta. Prince William Sound. Exposed Rocky. July 1991. Overstory removed 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 Rhodophyta									Morphological Group: Bladed Reds									Bangia sp. (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
19C/19	1	4	5.00	5.00	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
1642C/833	1	6	0.00	0.00	4	15.00	7.36	-	-	0.081	6	0.00	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			1.67	1.67		5.00	2.47		-			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%		0.035		P-value	0.222	Power	---		Power-50%		---		P-value	0.655	Power	---		Power-50%		---		P-value	0.655
Stouffer's	Power		0.008		Power-50%		---		P-value	0.270	Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500
19C/19	2	2	0.00	0.00	5	4.00	1.87	-	-	0.078	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	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
4537C/979	2	6	31.25	12.41	5	1.50	1.50	-	+	0.056	6	0.00	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			10.43	4.13		1.83	1.13		+			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%		0.035		P-value	0.197x	Power	---		Power-50%		---		P-value	0.655	Power	---		Power-50%		---		P-value	0.655
Stouffer's	Power		0.001		Power-50%		0.008		P-value	0.127	Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500
19C/19	3	0	--	--	4	22.50	16.52	-	---	---	0	--	--	4	5.62	5.63	-	---	---	0	--	--	4	0.00	0.00	-	---	---
1642C/833	3	4	15.63	10.63	2	41.25	23.75	-	-	0.275	4	0.00	0.00	2	32.50	15.00	-	-	0.171	4	0.00	0.00	2	8.75	8.75	-	-	0.500
4537C/979	3	3	25.83	15.96	5	10.50	6.44	-	-	0.438	3	0.00	0.00	5	4.50	2.29	-	-	0.090	3	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			20.70	13.30		24.77	15.57		-			0.00	0.00		14.20	7.63		-			0.00	0.00		2.93	2.93		-	
Fisher's	Power		0.116		Power-50%		0.101		P-value	0.347	Power	---		Power-50%		---		P-value	0.025	Power	---		Power-50%		---		P-value	0.385
Stouffer's	Power		0.062		Power-50%		0.023		P-value	0.552	Power	---		Power-50%		---		P-value	0.016	Power	---		Power-50%		---		P-value	0.369

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

Table C-5.370. Page 1. December 15, 1994

Site Pair	Mvd	Gigartinales Group (P) (g)									Palmaria sp. (A)									Phycodrya riggii (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
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	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
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	0.635	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	3.13	3.13	-	---	---	0	--	--	4	0.63	0.63	-	---	---	0	--	--	4	0.63	0.63	-	---	---
1642C/833	3	4	0.00	0.00	2	2.50	2.50	-	-	0.500	4	0.00	0.00	2	20.00	20.00	-	-	0.500	4	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	3	3	0.00	0.00	5	2.50	1.94	-	-	0.209	3	0.00	0.00	5	2.00	2.00	-	-	0.374	3	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		2.70	2.50		-			0.00	0.00		7.53	7.53		-			0.00	0.00		0.20	0.20		o	
Fisher's	Power		0.111		Power-50%		---		P-value	0.121	Power	---		Power-50%		---		P-value	0.190	Power	---		Power-50%		---		P-value	0.597 y
Stouffer's	Power		---		Power-50%		---		P-value	0.077	Power	---		Power-50%		---		P-value	0.134	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-5.370. Page 2. December 15, 1994

Table C-5.370. Algal Percent Cover. Rhodophyta. Prince William Sound. Exposed Rocky. July 1991. Overstory removed August 1990. (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	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	
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	15.00	7.36	-	-	0.081	
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	0.00	o				0.00	0.00	0.00	0.00	0.00	o				1.67	1.67		5.00	2.47	-			
Fisher's	Power		---		Power-50%	---	P-value	0.655			Power	---		Power-50%	---	P-value	0.655			Power	0.056		Power-50%	---	P-value	0.222			
Stouffer's	Power		---		Power-50%	---	P-value	0.500			Power	---		Power-50%	---	P-value	0.500			Power	0.010		Power-50%	---	P-value	0.270			
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	4.00	1.87	-	-	0.078	
1642C/833	2	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	
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	31.25	12.41	5	1.50	1.50	-	+	0.056	
Habitat Means			0.00	0.00	0.00	0.00	0.00	o				0.00	0.00	0.00	0.00	0.00	o				10.43	4.13		1.83	1.13	+			
Fisher's	Power		---		Power-50%	---	P-value	0.655			Power	---		Power-50%	---	P-value	0.655			Power	0.094		Power-50%	---	P-value	0.197*			
Stouffer's	Power		---		Power-50%	---	P-value	0.500			Power	---		Power-50%	---	P-value	0.300			Power	0.001		Power-50%	---	P-value	0.127			
19C/19	3	0	--	--	4	0.00	0.00	-	---	0	--	--	4	1.25	1.25	-	---	0	--	0	--	--	4	16.88	11.24	-	---		
1642C/833	3	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	0.00	0.00	2	1.25	1.25	-	o	0.500	4	15.63	10.63	2	8.75	8.75	-	-	0.813	
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	15.00	7.50	5	1.50	1.00	-	+	0.114	
Habitat Means			0.00	0.00	0.00	0.00	0.00	o				0.00	0.00	0.87	0.87	-					15.30	9.05		9.07	7.00				
Fisher's	Power		---		Power-50%	---	P-value	0.597			Power	---		Power-50%	---	P-value	0.385			Power	0.444		Power-50%	---	P-value	0.110			
Stouffer's	Power		---		Power-50%	---	P-value	0.500			Power	---		Power-50%	---	P-value	0.369			Power	---		Power-50%	---	P-value	0.050			

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

Table C-5.370. Page 3. December 15, 1994

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	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	3.75	3.75	-	o	0.391	6	0.00	0.00	4	11.25	8.26	-	o	0.214				
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		1.27	1.27	-				0.00	0.00		3.77	2.77	-						
Fisher's	Power		---		Power-50%	---	P-value	0.655			Power	---		Power-50%	---	P-value	0.419			Power	0.007		Power-50%	---	P-value	0.299						
Stouffer's	Power		---		Power-50%	---	P-value	0.500			Power	---		Power-50%	---	P-value	0.341			Power	0.002		Power-50%	---	P-value	0.276						
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	1.00	1.00	-	-	0.374				
1642C/833	2	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				
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	0.42	0.42	5	1.50	1.50	-	-	0.629				
Habitat Means			0.00	0.00		0.67	0.67	-				0.00	0.00		0.00	0.00	-	o			0.13	0.13		0.83	0.83	-						
Fisher's	Power		---		Power-50%	---	P-value	0.409			Power	---		Power-50%	---	P-value	0.655			Power	---		Power-50%	---	P-value	0.316						
Stouffer's	Power		---		Power-50%	---	P-value	0.408			Power	---		Power-50%	---	P-value	0.500			Power	---		Power-50%	---	P-value	0.262						
19C/19	3	0	--	--	4	5.00	5.00	-	---	0	--	--	4	0.00	0.00	0.00	-	---	0	--	--	4	0.00	0.00	0.00	-	---					
1642C/833	3	4	1.88	1.20	2	0.00	0.00	-	+	0.191	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	1.67	1.67	5	0.50	0.50	-	-	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				
Habitat Means			1.80	1.45		1.83	1.83	-				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%	0.010	P-value	0.123 y			Power	---		Power-50%	---	P-value	0.597			Power	---		Power-50%	---	P-value	0.597						
Stouffer's	Power		0.292		Power-50%	0.003	P-value	0.123			Power	---		Power-50%	---	P-value	0.500			Power	---		Power-50%	---	P-value	0.500						

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

Table C-5.370. Page 4. December 15, 1994

Table C-5.370. Algal Percent Cover. Rhodophyta. Prince William Sound. Exposed Rocky. July 1991. Overstory removed August 1990. (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	4	5.00	5.00	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
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			1.67	1.67		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		0.412	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	1.00	1.00	-	-	0.374	2	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	2	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
4537C/979	2	6	23.75	12.87	5	0.00	0.00	-	+	0.099	6	7.08	7.08	5	0.00	0.00	-	-	0.363	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			7.93	4.30		0.00	0.00		+			2.37	2.37		0.33	0.33		+			0.00	0.00		0.00	0.00		o	
Fisher's	Power		0.018		Power-50%	0.010	P-value		0.186	Power	---		Power-50%	---	P-value		0.517	Power	---		Power-50%	---	P-value		0.655			
Stouffer's	Power		---		Power-50%	---	P-value		0.083	Power	---		Power-50%	---	P-value		0.298	Power	---		Power-50%	---	P-value		0.500			
19C/19	3	0	--	--	4	0.00	0.00	-	---	---	0	--	--	4	11.87	11.87	-	---	---	0	--	--	4	0.00	0.00	-	---	---
1642C/833	3	4	0.00	0.00	2	5.00	5.00	-	-	0.500	4	13.75	10.03	2	1.25	1.25	-	+	0.509	4	0.00	0.00	2	2.50	2.50	-	-	0.500
4537C/979	3	3	7.50	7.50	5	1.00	1.00	-	+	0.408	3	5.83	5.83	5	0.00	0.00	-	+	0.423	3	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			3.75	3.75		2.00	2.00		-			9.80	7.90		4.40	4.40		+			0.00	0.00		0.93	0.83		-	
Fisher's	Power		---		Power-50%	---	P-value		0.440	Power	0.051		Power-50%	0.002	P-value		0.211	Power	---		Power-50%	---	P-value		0.385			
Stouffer's	Power		---		Power-50%	---	P-value		0.351	Power	0.098		Power-50%	0.000	P-value		0.153	Power	---		Power-50%	---	P-value		0.369			

(a) Genera not separated.

(b) Genera not separated.

\* At least one site pair p value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.370. Page 5, December 15, 1994

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	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			o			0.00	0.00		0.00			o			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	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				
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			o			0.00	0.00		0.00			o			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	10.83	10.83	5	3.00	2.42	-	+	0.596	3	10.83	10.83	5	3.00	2.42	-	+	0.596	3	0.00	0.00	5	0.00	0.00	-	o	1.000				
Habitat Means			5.40	5.40		1.00	0.80		+			5.40	5.40		1.00	0.80		+			0.00	0.00		0.00			o					
Fisher's	Power		0.016		Power-50%	---	P-value		0.433	Power	0.016		Power-50%	---	P-value		0.433	Power	---		Power-50%	---	P-value		0.597							
Stouffer's	Power		0.012		Power-50%	---	P-value		0.323	Power	0.012		Power-50%	---	P-value		0.323	Power	---		Power-50%	---	P-value		0.500							

\* At least one site pair p value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.370. Page 6, December 15, 1994

Table C-5.370. Algal Percent Cover. Rhodophyta, Prince William Sound, Exposed Rocky, July 1991, Overstory removed August 1990. (Continued.)

Pa	Polysiphonia/Pterosiphonia (A) (a)									Morphological Group: Crustose Reds									Crustose Coralline Algae (P)										
	Mvd	N	C	SE	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	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	
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	0.00	-	---	0	--	--	4	0.00	0.00	0.00	-	---	0	--
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	1.50	1.50	-	-	0.374	3	0.00	0.00	5	1.50	1.50	-	-	0.374	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.50	0.50		-			0.00	0.00		0.50	0.50		-		
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	0.220	Power		---		Power-50%		---	P-value	0.220		

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

Table C-5.370, Page 7, December 15, 1994

Hildenbrandia sp. (P)											Petrocells (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	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	0.655		Power	---		P-value
Stouffer's	Power		---		Power-50%	---	P-value	0.500		Power	---		Power-50%	---	P-value	0.500		Power	---		Power-50%	---	P-value	0.500		Power	---		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	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										
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	0.655		Power	---		P-value
Stouffer's	Power		---		Power-50%	---	P-value	0.500		Power	---		Power-50%	---	P-value	0.500		Power	---		Power-50%	---	P-value	0.500		Power	---		P-value
19C/19	3	0	--	--	4	0.00	0.00	-	---	0	--	--	4	0.00	0.00	-	---	0	--	--	4	0.00	0.00	-	---	0	--	--	
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	0.597		Power	---		P-value
Stouffer's	Power		---		Power-50%	---	P-value	0.500		Power	---		Power-50%	---	P-value	0.500		Power	---		Power-50%	---	P-value	0.500		Power	---		P-value

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

Table C-5.370, Page 8, December 15, 1994

Table C-5.371. Algal Percent Cover. Invertebrates. Prince William Sound. Exposed Rocky. July 1991. Overstory removed 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	0.00	0.00	-	o	1.000	4	5.62	5.63	5	0.00	0.00	-	-	0.391	4	1.88	1.20	5	0.00	0.00	-	+	0.191
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	4.37	2.95	-	-	0.198	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		0.00			o		2.03	2.03		1.47	1.00		-			0.63	0.40		0.00				+	
Fisher's	Power		---		Power-50%		---	P-value	0.655	Power	0.003		Power-50%		---	P-value	0.337	Power	0.026		Power-50%		---	P-value	0.280			
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power	0.002		Power-50%		---	P-value	0.362	Power	0.007		Power-50%		---	P-value	0.367			
19C/19	2	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	4.00	2.92	-	-	0.199	2	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	2	2	0.00	0.00	2	0.00	0.00	-	o	1.000	2	10.00	10.00	2	28.75	21.25	-	-	0.476	2	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	3.75	2.12	5	0.00	0.00	-	+	0.096	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00			o		4.60	4.03		10.93	8.07		-			0.00	0.00		0.00				o	
Fisher's	Power		---		Power-50%		---	P-value	0.655	Power	0.043		Power-50%		0.068	P-value	0.270x	Power	---		Power-50%		---	P-value	0.655			
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power	0.005		Power-50%		0.078	P-value	0.763	Power	---		Power-50%		---	P-value	0.500			
19C/19	3	0	--	--	4	0.00	0.00	-	---	0	--	--	4	33.75	23.57	-	---	0	--	--	4	0.00	0.00	0.00	-	---	---	
1642C/833	3	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	6.25	6.25	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	3.33	3.33	5	9.00	9.00	-	-	0.857	3	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00			o		4.80	4.80		14.27	10.87		-			0.00	0.00		0.00				o	
Fisher's	Power		---		Power-50%		---	P-value	0.597	Power	0.012		Power-50%		---	P-value	0.357 y	Power	---		Power-50%		---	P-value	0.597			
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power	0.024		Power-50%		---	P-value	0.394	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-5.371. Page 1. December 15, 1994

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	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
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	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	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.77	0.77		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	0.238	Power	---		Power-50%		---	P-value	0.655	Power	---		Power-50%		---	P-value	0.655			
Stouffer's	Power		---		Power-50%		---	P-value	0.166	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	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
4537C/979	2	6	4.17	2.93	5	0.00	0.00	-	+	0.187	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	1.67	0.83	5	0.00	0.00	-	+	0.082
Habitat Means			1.40	0.97		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.57	0.27		0.00	0.00		+	
Fisher's	Power		0.006		Power-50%		0.004	P-value	0.276	Power	---		Power-50%		---	P-value	0.655	Power	0.082		Power-50%		---	P-value	0.165			
Stouffer's	Power		0.001		Power-50%		0.001	P-value	0.134	Power	---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value	0.073			
19C/19	3	0	--	--	4	0.00	0.00	-	---	0	--	--	4	0.00	0.00	0.00	-	---	0	--	--	4	0.00	0.00	0.00	-	---	---
1642C/833	3	4	5.00	5.00	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	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			2.50	2.50		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	0.325	Power	---		Power-50%		---	P-value	0.597	Power	---		Power-50%		---	P-value	0.597			
Stouffer's	Power		---		Power-50%		---	P-value	0.335	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-5.371. Page 2. December 15, 1994

Table C-5.371. Algal Percent Cover. Invertebrates. Prince William Sound. Exposed Rocky. July 1991. Overstory removed 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	2	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 5.371. Page 1. December 15, 1994

Table C-5.372. Algal Percent Cover. Substrates. Prince William Sound. Exposed Rocky. July 1991. Overstory removed 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.

A											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	85.63	8.32	5	88.00	12.00	-	-	0.682	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	83.33	16.67	4	55.63	21.17	-	+	0.296	6	0.00	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	76.00	17.99	5	100.00	0.00	-	-	0.170	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			81.63	14.33		81.20	11.07		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		0.00	o				
Fisher's	Power		0.147		Power-50%	0.536	P-value			0.285	Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.655				
Stouffer's	Power		0.086		Power-50%	0.611	P-value			0.225	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500				
19C/19	2	2	55.00	45.00	5	59.50	17.70	-	-	0.862	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	2	28.75	28.75	2	68.75	18.75	-	-	0.359	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				
4537C/979	2	6	31.67	12.28	5	98.50	1.50	-	-	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			38.50	28.70		75.60	12.67		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		0.00	o				
Fisher's	Power		---		Power-50%	---	P-value			0.001	Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.655				
Stouffer's	Power		---		Power-50%	---	P-value			0.000	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500				
19C/19	3	0	--	--	4	19.37	15.49	-	---	---	0	--	--	4	0.00	0.00	-	---	---	0	--	--	4	0.00	0.00	-	---	---				
1642C/833	3	4	18.12	6.72	2	41.25	41.25	-	-	0.667	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	54.17	18.84	5	34.50	14.67	-	+	0.394	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			36.15	12.75		31.73	23.83		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		0.00	o				
Fisher's	Power		0.184		Power-50%	0.205	P-value			0.398	Power	---		Power-50%	---	P-value			0.597	Power	---		Power-50%	---	P-value			0.597				
Stouffer's	Power		0.181		Power-50%	0.064	P-value			0.300	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-5.372. Page 1. December 15, 1994

Site Pair	Mvd	N	Shell Fragments							Water							Zostera/Phyllospadix											
			C	SE	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			o			0.00	0.00		0.00			o			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	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
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			o			0.00	0.00		0.00			o			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			o			0.00	0.00		0.00			o			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-5.372. Page 2. December 15, 1994

Table C-5.372. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Exposed Rocky. July 1991. Overstory removed August 1990. (Continued.)

Site Pair	Sand and Mud										Total Substrate																	
	Mvd	N	C	SE	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	85.63	8.32	5	88.00	12.00	-	-	0.682									
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	83.33	16.67	4	55.63	21.17	-	+	0.296									
4537C/979	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	76.00	17.99	5	100.00	0.00	-	-	0.170									
Habitat Means			0.00	0.00		0.00	0.00		o			81.63	14.33		81.20	11.07		-										
Fisher's	Power		---		Power-50%		---	P-value	0.655	Power	0.147		Power-50%		0.589	P-value	0.285	y	Power		---		Power-50%		---	P-value		
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power	0.090		Power-50%		0.667	P-value	0.225		Power		---		Power-50%		---	P-value		
19C/19	2	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	55.00	45.00	5	59.50	17.70	-	-	0.862									
1642C/833	2	2	0.00	0.00	2	0.00	0.00	-	o	1.000	2	28.75	28.75	2	68.75	18.75	-	-	0.359									
4537C/979	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	31.67	12.28	5	98.50	1.50	-	-	0.001									
Habitat Means			0.00	0.00		0.00	0.00		o			38.50	28.70		75.60	12.67		-										
Fisher's	Power		---		Power-50%		---	P-value	0.655	Power	---		Power-50%		---	P-value	0.001		Power		---		Power-50%		---	P-value		
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value	0.000		Power		---		Power-50%		---	P-value		
19C/19	3	0	--	--	4	0.00	0.00	-	---	0	--	--	4	19.37	15.49	-		---										
1642C/833	3	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	18.12	6.72	2	41.25	41.25	-	-	0.667									
4537C/979	3	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	54.17	18.84	5	34.50	14.67	-	+	0.394									
Habitat Means			0.00	0.00		0.00	0.00		o			36.15	12.75		31.73	23.83		+										
Fisher's	Power		---		Power-50%		---	P-value	0.597	Power	0.174		Power-50%		0.185	P-value	0.398		Power		---		Power-50%		---	P-value		
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power	0.176		Power-50%		0.042	P-value	0.300		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-5.372. Page 3. December 15, 1994



Table C-5.373. Algal Percent Cover, Totals and Seasonal Groups, Cook Inlet/Kenai, Sheltered Rocky, May 1991, Overstory removed 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	
14.1C/14.1	1	6	0.12	0.05	6	0.24	0.09	-	-	0.242	6	1.67	0.21	6	2.50	0.56	-	-	0.196	6	35.00	8.66	6	47.92	13.19	-	-	0.496	
14.2C/14.2	1	6	0.12	0.07	4	0.15	0.09	-	-	0.810	6	2.00	0.52	4	2.00	0.91	-	o	1.000	6	69.17	12.36	4	38.75	18.04	-	+	0.142	
62762C/50983	1	6	0.17	0.09	6	0.00	0.00	-	-	0.120	6	1.83	0.48	6	0.83	0.17	-	+	0.076	6	41.25	7.58	6	48.33	17.15	-	-	0.743	
Habitat Means			0.14	0.07		0.13	0.06		-			1.83	0.40		1.78	0.55		+			48.50	9.57		45.00	16.13		-		
Fisher's	Power		0.093		Power-50%	0.593	P-value		0.406	y	Power	0.202		Power-50%	0.974	P-value		0.229		Power	0.021		Power-50%	0.982	P-value		0.555	y	
Stouffer's	Power		0.015		Power-50%	0.686	P-value		0.846		Power	0.086		Power-50%	0.985	P-value		0.105		Power	0.012		Power-50%	0.988	P-value		0.470		
14.1C/14.1	2	6	0.48	0.10	6	0.43	0.08	-	+	0.723	6	4.33	0.88	6	3.67	0.92	-	+	0.612	6	60.42	15.42	6	57.87	15.30	-	+	0.955	
14.2C/14.2	2	5	0.20	0.12	4	0.16	0.08	-	+	0.828	5	2.60	0.98	4	2.25	0.63	-	+	0.786	5	94.00	4.00	4	51.88	11.20	-	-	0.006	
62762C/50983	2	5	0.31	0.11	6	0.00	0.00	-	+	0.044	5	3.00	1.00	6	0.83	0.17	-	-	0.096	5	81.00	6.30	6	53.75	20.27	-	+	0.414	
Habitat Means			0.33	0.11		0.20	0.05		+			3.31	0.95		2.25	0.57		-			78.47	8.57		54.53	15.60		+		
Fisher's	Power		---		Power-50%	---	P-value		0.075		Power	0.682		Power-50%	0.851	P-value		0.112		Power	---		Power-50%	---	P-value		0.012		
Stouffer's	Power		---		Power-50%	---	P-value		0.022		Power	---		Power-50%	---	P-value		0.040		Power	---		Power-50%	---	P-value		0.060		
14.1C/14.1	3	5	0.66	0.03	5	0.49	0.06	-	+	0.037	5	6.60	0.40	5	4.80	0.73	-	+	0.064	5	77.00	9.30	5	98.50	1.50	-	-	0.046	
14.2C/14.2	3	2	0.52	0.25	4	0.62	0.16	-	-	0.760	2	5.00	2.00	4	7.50	2.10	-	-	0.501	2	92.50	7.50	4	76.88	9.43	-	+	0.240	
62762C/50983	3	5	0.47	0.15	4	0.22	0.10	-	+	0.248	5	5.00	1.73	4	2.75	0.75	-	+	0.313	5	45.50	13.88	4	69.38	16.28	-	-	0.231	
Habitat Means			0.55	0.14		0.44	0.11		+			5.53	1.38		5.02	1.20		+			71.67	10.23		81.60	9.07		-		
Fisher's	Power		---		Power-50%	---	P-value		0.041		Power	---		Power-50%	---	P-value		0.083		Power	---		Power-50%	---	P-value		0.059		
Stouffer's	Power		---		Power-50%	---	P-value		0.059		Power	0.144		Power-50%	0.724	P-value		0.104		Power	---		Power-50%	---	P-value		0.091		

(a) Modified Shannon Index.

(b) Taxa richness calculations are explained in the methods.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C 5.373, Page 1, December 15, 1994

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	3.33	1.54	6	11.67	4.50	-	-	0.235	6	60.83	8.48	6	40.00	11.51	-	-	0.171	6	35.00	8.66	6	35.00	13.48	-	o	0.743	
14.2C/14.2	1	6	15.00	7.80	4	28.13	21.30	-	-	0.656	6	15.83	9.95	4	33.13	18.52	-	-	0.409	6	18.33	11.32	4	1.88	1.88	-	-	0.232	
62762C/50983	1	6	42.50	11.58	6	9.58	3.95	-	+	0.048	6	16.25	4.95	6	42.08	15.59	-	-	0.337	6	35.83	7.90	6	48.33	17.15	-	-	0.587	
Habitat Means			20.27	6.97		16.47	9.93		-			30.97	7.83		38.40	15.20		-			29.70	9.30		28.40	10.87		+		
Fisher's			Power	0.124		Power-50%	0.444		P-value	0.363xy	Power	0.238		Power-50%	0.590		P-value	0.329	Power	0.181		Power-50%	0.555		P-value	0.431			
Stouffer's			Power	0.023		Power-50%	0.544		P-value	0.911	Power	0.162		Power-50%	0.644		P-value	0.235	Power	0.199		Power-50%	0.631		P-value	0.598			
14.1C/14.1	2	6	6.67	3.96	6	9.58	4.58	-	-	0.819	6	32.50	15.19	6	31.72	11.47	-	+	0.944	6	47.08	12.87	6	44.82	12.14	-	+	0.979	
14.2C/14.2	2	5	5.00	3.16	4	20.00	10.66	-	-	0.192	5	1.00	1.00	4	27.50	16.14	-	-	0.075	5	88.50	7.14	4	40.63	14.87	-	+	0.022	
62762C/50983	2	5	7.50	6.89	6	19.17	10.89	-	-	0.383	5	11.50	4.65	6	14.17	8.72	-	-	0.794	5	42.50	14.85	6	53.75	20.27	-	-	0.589	
Habitat Means			6.40	4.70		16.27	8.73		-			15.00	6.97		24.47	12.10		-			59.37	11.63		46.40	15.77		-		
Fisher's			Power	0.317		Power-50%	0.274		P-value	0.134	Power	0.189		Power-50%	0.418		P-value	0.138	Power	---		Power-50%	---		P-value	0.084			
Stouffer's			Power	0.390		Power-50%	0.432		P-value	0.108	Power	0.213		Power-50%	0.495		P-value	0.234	Power	0.243		Power-50%	0.932		P-value	0.434			
14.1C/14.1	3	5	6.50	4.72	5	0.00	0.00	-	+	0.132	5	16.00	6.87	5	1.50	1.50	-	-	0.056	5	40.00	13.94	5	51.50	17.47	-	-	0.561	
14.2C/14.2	3	2	0.00	0.00	4	15.63	11.83	-	-	0.222	2	7.50	7.50	4	6.25	2.39	-	+	0.918	2	31.25	21.25	4	38.75	11.20	-	-	0.746	
62762C/50983	3	5	20.00	5.86	4	20.00	11.73	-	o	0.604	5	34.50	14.15	4	10.63	5.04	-	+	0.163	5	15.50	5.83	4	53.13	6.95	-	-	0.010	
Habitat Means			8.83	3.53		11.87	7.83		-			19.33	9.53		6.13	2.97		+			28.93	13.67		47.80	11.90		-		
Fisher's			Power	0.111		Power-50%	0.259		P-value	0.381 y	Power	---		Power-50%	---		P-value	0.033	Power	---		Power-50%	---		P-value	0.020			
Stouffer's			Power	0.036		Power-50%	0.294		P-value	0.653	Power	---		Power-50%	---		P-value	0.032	Power	---		Power-50%	---		P-value	0.005			

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.373, Page 2, December 15, 1994

Table C-5.373. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Sheltered Rocky. May 1991. Overstory removed June 1990. (Continued.)

Site Pair	Method	N	Annuals (A)								Ephemerals (AE)																	
			C	SE	N	O	SE	CV	D	P	N	C	RR	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.2C/14.2	1	6	50.83	17.33	4	36.88	17.39	-	-	0.561	6	0.00	0.00	4	21.88	14.01	-	-	0.124									
62762C/50983	1	6	5.42	5.42	6	0.00	0.00	-	-	0.363	6	2.92	2.92	6	0.00	0.00	-	-	0.363									
Habitat Means			18.73	7.57		16.60	8.07					0.97	0.97		7.87	5.23												
Fisher's	Power		0.007		Power-50%	0.035	P-value	0.426*			Power	0.058		Power-50%		---	P-value	0.154	Power	---		Power-50%	---	P-value				
Stouffer's	Power		0.000		Power-50%	0.055	P-value	0.374			Power	0.049		Power-50%		---	P-value	0.553	Power	---		Power-50%	---	P-value				
14.1C/14.1	2	6	13.33	8.91	6	13.05	4.61	-	-	0.767	6	1.25	0.85	6	2.93	2.45	-	-	0.716									
14.2C/14.2	2	5	5.50	3.39	4	11.25	6.81	-	-	0.447	5	1.00	0.61	4	0.00	0.00	-	+	0.178									
62762C/50983	2	5	38.50	17.26	6	0.00	0.00	-	+	0.035	5	13.00	5.56	6	0.00	0.00	-	+	0.073									
Habitat Means			19.10	9.87		8.13	3.80		+			5.10	2.37		0.97	0.83		+										
Fisher's	Power		0.196		Power-50%	0.815	P-value	0.105			Power	---		Power-50%		---	P-value	0.055	Power	---		Power-50%	---	P-value				
Stouffer's	Power		---		Power-50%	---	P-value	0.036			Power	---		Power-50%		---	P-value	0.027	Power	---		Power-50%	---	P-value				
14.1C/14.1	3	5	37.00	5.72	5	47.00	16.68	-	-	0.787	5	8.50	3.50	5	35.00	12.57	-	-	0.130									
14.2C/14.2	3	2	61.25	28.75	4	38.13	2.95	-	+	0.263	2	0.00	0.00	4	12.50	9.19	-	-	0.094									
62762C/50983	3	5	30.00	13.99	4	16.25	9.38	-	-	0.564	5	6.50	4.23	4	1.25	1.25	-	-	0.303									
Habitat Means			42.77	16.17		33.80	9.70		-			5.00	2.57		16.27	7.70		-										
Fisher's	Power		0.174		Power-50%	0.805	P-value	0.270			Power	---		Power-50%		---	P-value	0.064	Power	---		Power-50%	---	P-value				
Stouffer's	Power		0.154		Power-50%	0.845	P-value	0.222			Power	0.257		Power-50%		0.135	P-value	0.514	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 5.373. Page 3. December 15, 1994

Table C-5.374. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Sheltered Rocky. May 1991. Overstory removed 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				
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	20.62	14.48	-	-	0.157	6	0.00	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	2.92	2.92	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				
Habitat Means			0.97	0.97		7.43	5.40		-			0.57	0.57		0.00	0.00		-			0.57	0.57		0.00	0.00		-					
Fisher's Stouffer's	Power		0.018		Power-50%		---	P-value		0.179	Power		---	Power-50%		---	P-value		0.403	Power		---	Power-50%		---	P-value		0.403				
	Power		0.017		Power-50%		---	P-value		0.567	Power		---	Power-50%		---	P-value		0.203	Power		---	Power-50%		---	P-value		0.203				
14.1C/14.1	2	6	1.25	0.85	6	2.93	2.45	-	-	0.716	6	1.25	0.85	6	0.00	0.00	-	+	0.183	6	1.25	0.85	6	0.00	0.00	-	+	0.183				
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	-	+	0.100	5	0.00	0.00	4	0.00	0.00	-	+	0.100				
62762C/50983	2	5	22.50	18.97	6	0.00	0.00	-	+	0.256	5	7.50	5.36	6	0.00	0.00	-	+	0.197	5	7.50	5.36	6	0.00	0.00	-	+	0.197				
Habitat Means			8.10	6.80		0.97	0.83		+			2.93	2.10		0.00	0.00		+			2.93	2.10		0.00	0.00		+					
Fisher's Stouffer's	Power		0.074		Power-50%		0.249	P-value		0.214	Power		---	Power-50%		---	P-value		0.095	Power		---	Power-50%		---	P-value		0.095				
	Power		0.154		Power-50%		0.455	P-value		0.117	Power		---	Power-50%		---	P-value		0.059	Power		---	Power-50%		---	P-value		0.059				
14.1C/14.1	3	5	8.00	3.74	5	35.00	12.57	-	-	0.111	5	6.50	3.84	5	35.00	12.57	-	-	0.084	5	6.50	3.84	5	35.00	12.57	-	-	0.084				
14.2C/14.2	3	2	0.00	0.00	4	3.75	1.61	-	-	0.071	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	6.50	4.23	4	0.00	0.00	-	+	0.116	5	6.50	4.23	4	0.00	0.00	-	+	0.116	5	6.50	4.23	4	0.00	0.00	-	+	0.116				
Habitat Means			4.83	2.63		12.93	4.73		-			4.33	2.67		12.50	4.53		-			4.33	2.67		12.50	4.53		-					
Fisher's Stouffer's	Power		---		Power-50%		---	P-value		0.050	Power		---	Power-50%		---	P-value		0.039	Power		---	Power-50%		---	P-value		0.039				
	Power		0.098		Power-50%		0.159	P-value		0.680	Power		0.104	Power-50%		0.105	P-value		0.663	Power		0.102	Power-50%		0.112	P-value		0.663				

(a) Kormannia, Monostroma, Ulva and Ulvaria.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C 5.374. Page 1. December 15, 1994

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	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	20.62	14.48	-	-	0.157	6	0.00	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	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
Habitat Means			0.43	0.43		7.43	5.40		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		0.019		Power-50%		---	P-value		0.179	Power		---	Power-50%		---	P-value		0.655	Power		---	Power-50%		---	P-value		0.655
Stouffer's	Power		0.018		Power-50%		---	P-value		0.567	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	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
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	15.00	13.78	6	0.00	0.00	-	+	0.274	5	14.00	14.00	6	0.00	0.00	-	+	0.374	5	0.00	0.00	6	0.00	0.00	-	+	0.374
Habitat Means			5.00	4.60		0.83	0.83		+			4.67	4.67		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's	Power		0.000		Power-50%		0.002	P-value		0.450	Power		---	Power-50%		---	P-value		0.409	Power		---	Power-50%		---	P-value		0.655
Stouffer's	Power		0.000		Power-50%		0.000	P-value		0.229	Power		---	Power-50%		---	P-value		0.208	Power		---	Power-50%		---	P-value		0.500
14.1C/14.1	3	5	1.50	1.50	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
14.2C/14.2	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
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			0.50	0.50		0.43	0.43		+			0.00	0.00		0.43	0.43		-			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.522	Power		---	Power-50%		---	P-value		0.419	Power		---	Power-50%		---	P-value		0.655
Stouffer's	Power		---		Power-50%		---	P-value		0.496	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 &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C 5.374. Page 2. December 15, 1994

Table C-5.374. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Sheltered Rocky. May 1991. Overstory removed 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	1.67	1.67	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	-	0.00	6	0.00	0.00	6	0.00	0.00	-	-	1.000
14.2C/14.2	1	6	0.00	0.00	4	0.00	0.00	-	-	1.000	6	0.00	0.00	4	0.00	0.00	-	-	0.00	6	0.00	0.00	4	20.62	14.48	-	-	0.157
62762C/50983	1	6	1.25	1.25	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	-	0.00	6	0.00	0.00	6	0.00	0.00	-	-	1.000
Habitat Means			0.43	0.43		0.57	0.57	-				0.00	0.00		0.00	0.00	-	-			0.00	0.00		6.87	4.83	-		
Fisher's	Power		---		Power-50%	---	P-value			0.519	Power	---		Power-50%	---	P-value			0.655	Power	0.007		Power-50%	---	P-value			0.248
Stouffer's	Power		---		Power-50%	---	P-value			0.717	Power	---		Power-50%	---	P-value			0.500	Power	0.002		Power-50%	---	P-value			0.343
14.1C/14.1	2	6	0.00	0.00	6	2.50	2.50	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	-	1.000	6	0.00	0.00	6	0.00	0.00	-	-	1.000
14.2C/14.2	2	5	0.00	0.00	4	0.00	0.00	-	-	1.000	5	0.00	0.00	4	0.00	0.00	-	-	1.000	5	0.00	0.00	4	0.00	0.00	-	-	1.000
62762C/50983	2	5	1.00	1.00	6	0.00	0.00	-	+	0.374	5	0.00	0.00	6	0.00	0.00	-	-	1.000	5	0.00	0.00	6	0.00	0.00	-	-	1.000
Habitat Means			0.33	0.33		0.83	0.83	-				0.00	0.00		0.00	0.00	-	-			0.00	0.00		0.00	0.00	-	-	
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			0.710	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500
14.1C/14.1	3	5	1.50	1.50	5	0.00	0.00	-	+	0.374	5	0.00	0.00	5	0.00	0.00	-	-	1.000	5	0.00	0.00	5	0.00	0.00	-	-	1.000
14.2C/14.2	3	2	0.00	0.00	4	0.00	0.00	-	-	1.000	2	0.00	0.00	4	0.00	0.00	-	-	1.000	2	0.00	0.00	4	0.00	0.00	-	-	1.000
62762C/50983	3	5	0.00	0.00	4	0.00	0.00	-	-	1.000	5	0.00	0.00	4	0.00	0.00	-	-	1.000	5	0.00	0.00	4	0.00	0.00	-	-	1.000
Habitat Means			0.50	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			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

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

Table C-5.374. Page 3, December 15, 1994

Site Pair	Mvd	Morphological Group: Tubular and Saccate Greens								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	
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	0.43	0.43	-	-	0.363	6	0.00	0.00	6	0.43	0.43	-	-	0.363										
14.2C/14.2	2	5	0.50	0.50	4	0.00	0.00	-	+	0.374	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										
Habitat Means			0.17	0.17		0.13	0.13	-				0.17	0.17		0.13	0.13	-												
Fisher's	Power		---		Power-50%	---	P-value			0.517 y	Power	---		Power-50%	---	P-value			0.517 y	Power	---		Power-50%	---	P-value				
Stouffer's	Power		---		Power-50%	---	P-value			0.498	Power	---		Power-50%	---	P-value			0.498	Power	---		Power-50%	---	P-value				
14.1C/14.1	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										
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-5.374. Page 4, December 15, 1994

**Table C-5.375. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Sheltered Rocky. May 1991. Overstory removed 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	30.83	7.52	6	25.42	10.83	-	+	0.460	6	30.83	7.52	6	25.42	10.83	-	+	0.460	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	9.58	9.58	4	0.00	0.00	-	+	0.363	6	9.58	9.58	4	0.00	0.00	-	+	0.363	6	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000
62762C/50983	1	6	31.25	8.46	6	48.33	17.15	-	-	0.457	6	31.25	8.46	6	48.33	17.15	-	-	0.457	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
Habitat Means			23.90	8.53		24.57	9.33		+			23.90	8.53		24.57	9.33		+			0.00	0.00		0.00	0.00		o		
Fisher's	Power		0.056		Power-50%		0.768	P-value		0.333 y	Power	0.058		Power-50%		0.775	P-value		0.333 y	Power	---		Power-50%		---	P-value		0.655	
Stouffer's	Power		0.063		Power-50%		0.808	P-value		0.583	Power	0.061		Power-50%		0.813	P-value		0.583	Power	---		Power-50%		---	P-value		0.500	
14.1C/14.1	2	6	15.42	8.15	6	20.97	13.26	-	-	0.869	6	14.58	7.94	6	20.97	13.26	-	-	0.835	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
14.2C/14.2	2	5	71.00	18.38	4	28.13	16.69	-	+	0.091	5	70.50	18.78	4	28.13	16.69	-	+	0.099	5	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000
62762C/50983	2	5	47.00	16.11	6	53.75	20.27	-	-	0.684	5	42.50	14.85	6	53.75	20.27	-	-	0.589	5	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
Habitat Means			44.47	14.23		34.30	16.77		-			42.53	13.87		34.30	16.77		-			0.00	0.00		0.00	0.00		o		
Fisher's	Power		0.006		Power-50%		0.444	P-value		0.689xy	Power	0.006		Power-50%		0.448	P-value		0.637xy	Power	---		Power-50%		---	P-value		0.655	
Stouffer's	Power		0.003		Power-50%		0.503	P-value		0.525	Power	0.007		Power-50%		0.537	P-value		0.467	Power	---		Power-50%		---	P-value		0.500	
14.1C/14.1	3	5	32.00	13.02	5	10.00	4.94	-	+	0.111	5	24.00	12.93	5	10.00	4.94	-	+	0.422	5	0.00	0.00	5	4.50	3.39	-	-	0.205	
14.2C/14.2	3	2	60.00	20.00	4	30.00	12.42	-	-	0.246	2	60.00	20.00	4	20.00	13.69	-	-	0.170	2	45.00	35.00	4	1.25	0.72	-	+	0.064	
62762C/50983	3	5	18.00	6.77	4	53.13	8.00	-	-	0.014	5	17.50	6.32	4	51.88	7.02	-	-	0.011	5	7.00	3.39	4	0.00	0.00	-	+	0.084	
Habitat Means			36.67	13.27		31.03	8.43		-			33.83	13.07		27.30	8.53		-			17.33	12.80		1.93	1.37		+		
Fisher's	Power		0.328		Power-50%		0.608	P-value		0.125x	Power	0.199		Power-50%		0.363	P-value		0.234x	Power	---		Power-50%		---	P-value		0.037	
Stouffer's	Power		0.075		Power-50%		0.647	P-value		0.929	Power	0.050		Power-50%		0.436	P-value		0.956	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.

Table C-5.375, Page 1, December 15, 1994

Total <i>Fucus gardneri</i> (P)										Adult <i>Fucus gardneri</i> (P) (> 2cm)										Juvenile <i>Fucus gardneri</i> (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	30.83	7.52	6	25.42	10.83	-	+	0.460	6	24.58	7.34	6	23.75	9.85	-	+	0.707	6	6.25	3.40	6	1.67	1.05	-	+	0.326	
14.2C/14.2	1	6	9.58	9.58	4	0.00	0.00	-	+	0.363	6	7.50	7.50	4	0.00	0.00	-	+	0.363	6	2.08	2.08	4	0.00	0.00	-	+	0.363	
62762C/50983	1	6	31.25	8.46	6	48.33	17.15	-	-	0.457	6	29.17	8.56	6	43.33	18.82	-	-	0.610	6	2.08	1.19	6	5.00	3.42	-	-	0.751	
Habitat Means			23.90	8.53		24.57	9.33		+			20.43	7.80		22.37	9.57		+			3.50	2.23		2.23	1.50		-		
Fisher's	Power		0.056		Power-50%		0.751	P-value		0.333 y	Power	0.059		Power-50%		0.595	P-value		0.399 y	Power	0.134		Power-50%		0.374	P-value		0.239	
Stouffer's	Power		0.056		Power-50%		0.794	P-value		0.583	Power	0.087		Power-50%		0.652	P-value		0.540	Power	0.120		Power-50%		0.516	P-value		0.402	
14.1C/14.1	2	6	14.58	7.94	6	20.97	13.26	-	-	0.835	6	14.58	7.94	6	20.97	13.26	-	-	0.835	6	0.00	0.00	6	0.00	0.00	-	o	1.000	
14.2C/14.2	2	5	70.50	18.78	4	28.13	16.69	-	+	0.099	5	70.50	18.78	4	27.50	17.02	-	+	0.091	5	0.00	0.00	4	0.63	0.63	-	-	0.391	
62762C/50983	2	5	42.50	14.85	6	53.75	20.27	-	-	0.589	5	41.00	14.61	6	53.75	20.27	-	-	0.561	5	1.50	1.50	6	0.00	0.00	-	-	0.374	
Habitat Means			42.53	13.87		34.30	16.77		-			42.03	13.77		34.10	16.87		-			0.50	0.50		0.20	0.20		+		
Fisher's	Power		0.007		Power-50%		0.462	P-value		0.637xy	Power	0.011		Power-50%		0.543	P-value		0.625xy	Power	---		Power-50%		---	P-value		0.522	
Stouffer's	Power		0.007		Power-50%		0.529	P-value		0.467	Power	0.014		Power-50%		0.608	P-value		0.457	Power	---		Power-50%		---	P-value		0.285	
14.1C/14.1	3	5	24.00	12.93	5	5.50	4.90	-	-	0.199	5	24.00	12.93	5	5.50	4.90	-	-	0.199	5	0.00	0.00	5	0.00	0.00	-	o	1.000	
14.2C/14.2	3	2	15.00	15.00	4	18.75	14.01	-	-	0.865	2	15.00	15.00	4	16.25	14.63	-	-	0.975	2	0.00	0.00	4	2.50	1.77	-	-	0.204	
62762C/50983	3	5	10.50	5.02	4	51.88	7.02	-	-	0.004	5	10.00	5.24	4	51.88	7.02	-	-	0.005	5	0.50	0.50	4	0.00	0.00	-	+	0.374	
Habitat Means			16.50	10.97		25.40	8.63		-			16.33	11.03		24.57	8.83		-			0.17	0.17		0.83	0.60		-		
Fisher's	Power		---		Power-50%		---	P-value		0.027	Power	---		Power-50%		---	P-value		0.035	Power	0.008		Power-50%		---	P-value		0.384	
Stouffer's	Power		---		Power-50%		---	P-value		0.011	Power	---		Power-50%		---	P-value		0.014	Power	0.002		Power-50%		---	P-value		0.674	

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

Table C-5.375, Page 2, December 15, 1994

Table C-5.375. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai, Sheltered Rocky. May 1991. Overstory removed June 1990. (Continued.)

Fucus Stipes (F) (a)											Petalonia/Punctaria (AE) (b)								Morphological Group: Coarse 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		
14.1C/14.1	1	5	0.83	0.83	6	0.00	0.00	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	-	1.000	6	0.00	0.00	6	0.00	0.00	-	-	1.000		
14.2C/14.2	1	5	0.00	0.00	4	0.00	0.00	-	-	1.000	6	0.00	0.00	4	0.00	0.00	-	-	1.000	6	0.00	0.00	4	0.00	0.00	-	-	1.000		
62762C/50983	1	5	0.00	0.00	6	0.00	0.00	-	-	1.000	6	0.00	0.00	6	0.00	0.00	-	-	1.000	6	0.00	0.00	6	0.00	0.00	-	-	1.000		
Habitat Means			0.27	0.27		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	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	0.42	0.42	6	0.83	0.83	-	-	0.814	6	0.00	0.00	6	0.00	0.00	-	-	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	0.63	0.63	-	-	0.391	5	0.00	0.00	4	0.00	0.00	-	-	1.000	5	0.00	0.00	4	0.00	0.00	-	-	1.000		
62762C/50983	2	5	0.00	0.00	6	0.00	0.00	-	-	1.000	5	0.00	0.00	6	0.00	0.00	-	-	1.000	5	0.00	0.00	6	0.00	0.00	-	-	1.000		
Habitat Means			0.13	0.13		0.47	0.47		-			0.00	0.00		0.00	0.00		-			0.27	0.27		0.00	0.00		-			
Fisher's	Power		---		Power-50%		---	P-value	0.375	Power		---		Power-50%		---	P-value	0.655	Power		---		Power-50%		---	P-value	0.403			
Stouffer's	Power		---		Power-50%		---	P-value	0.378	Power		---		Power-50%		---	P-value	0.500	Power		---		Power-50%		---	P-value	0.398			
14.1C/14.1	3	5	0.50	0.50	5	0.00	0.00	-	-	0.374	5	0.00	0.00	5	0.00	0.00	-	-	1.000	5	7.50	1.12	5	0.00	0.00	-	-	0.000		
14.2C/14.2	3	2	0.00	0.00	4	1.25	1.25	-	-	0.391	2	0.00	0.00	4	0.00	0.00	-	-	1.000	2	0.00	0.00	4	0.00	0.00	-	-	1.000		
62762C/50983	3	5	0.00	0.00	4	0.00	0.00	-	-	1.000	5	0.00	0.00	4	0.00	0.00	-	-	1.000	5	0.50	0.50	4	0.00	0.00	-	-	0.374		
Habitat Means			0.17	0.17		0.43	0.43		-			0.00	0.00		0.00	0.00		-			2.67	0.53		0.00	0.00		-			
Fisher's	Power		---		Power-50%		---	P-value	0.522	Power		---		Power-50%		---	P-value	0.655	Power		---		Power-50%		---	P-value	0.001			
Stouffer's	Power		---		Power-50%		---	P-value	0.496	Power		---		Power-50%		---	P-value	0.500	Power		---		Power-50%		---	P-value	0.030			

(a) Dead Fucus plants or stipes without blades.

(b) Genera not separated.

x At least one site pair p-value &lt; 0.100 in opposite direction of 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, Page 3, December 15, 1994

Site Pair	Mvd	N	Analopus japonicus (F)							Myelophycus/Scytosiphon (A) (a)							Morphological Group: Fine Filamentous Browns											
			C	SE	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	0.83	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	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	4.50	3.91	6	0.00	0.00	-	+	0.240
Habitat Means			0.00	0.00		0.00	0.00		o			0.27	0.27		0.00	0.00		+			1.67	1.47		0.00	0.00		+	
Fisher's	Power		---		Power-50%		---	P-value	0.655	Power	---		Power-50%		---	P-value	0.403	Power	---		Power-50%		---	P-value	0.175			
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value	0.398	Power	---		Power-50%		---	P-value	0.092			
14.1C/14.1	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	7.50	1.12	5	0.00	0.00	-	-	0.000	5	0.50	0.50	5	0.00	0.00	-	+	0.374
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	10.00	10.00	-	-	0.391
62762C/50983	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	0.00	0.00	4	1.25	1.25	-	-	0.391
Habitat Means			0.00	0.00		0.00	0.00		o			2.67	0.53		0.00	0.00		-			0.17	0.17		3.77	3.77		-	
Fisher's	Power		---		Power-50%		---	P-value	0.655	Power	---		Power-50%		---	P-value	0.001	Power	---		Power-50%		---	P-value	0.326			
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value	0.030	Power	---		Power-50%		---	P-value	0.219			

(a) Genera not separated.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C 5.375, Page 4, December 15, 1994

Table C-5.375. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Sheltered Rocky. May 1991. Overstory removed 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	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			o			0.00	0.00		0.00			o			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	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	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	4.50	3.91	6	0.00	0.00	-	+	0.240	5	0.00	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			1.67	1.47		0.00			+			0.00	0.00		0.00			o			0.00	0.00		0.00			o					
Fisher's	Power		0.008		Power-50%	0.012	P-value		0.175	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		0.092	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	0.50	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				
14.2C/14.2	3	2	0.00	0.00	4	10.00	10.00	-	+	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	1.25	1.25	-	+	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			0.17	0.17		3.77	3.77	-				0.00	0.00		0.00			o			0.00	0.00		0.00			o					
Fisher's	Power		---		Power-50%	---	P-value		0.326	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		0.219	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value	0.500

(b) Elachista, Ketocarpus and Pilayella.

(a) Genera not separated.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.375. Page 5. December 15, 1994

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	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			o			0.00	0.00		0.00			o			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	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	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	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			o			0.00	0.00		0.00			o			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	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	Power	---		Power-50%	---	P-value	0.500
14.1C/14.1	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				
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			o			0.00	0.00		0.00			o			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	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	Power	---		Power-50%	---	P-value	0.500

(a) Genera not separated.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.375. Page 6. December 15, 1994

Table C-5.376. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. May 1991. Overstory removed 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	4.17	2.01	6	20.83	10.26	-	-	0.103	6	1.67	1.24	6	0.83	0.83	-	+	0.580	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000				
14.2C/14.2	1	6	59.58	14.25	4	18.13	13.59	-	-	0.055	6	47.50	17.49	4	15.63	11.83	-	+	0.261	6	0.00	0.00	4	1.25	1.25	-	-	0.391					
62762C/50983	1	6	7.08	3.32	6	0.00	0.00	-	-	0.079	6	2.50	2.50	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000				
Habitat Means			23.63	6.53		12.97	7.97		-			17.23	7.07		5.47	4.20		+			0.00	0.00		0.43	0.43		-						
Fisher's	Power		---		Power-50%	---	P-value		0.033	Power	0.224		Power-50%	0.353	P-value		0.126	Power	---		Power-50%	---	P-value		0.419	Power	---		Power-50%	---	P-value		0.403
Stouffer's	Power		---		Power-50%	---	P-value		0.045	Power	---		Power-50%	---	P-value		0.095	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.500
14.1C/14.1	2	6	43.75	13.52	6	33.98	13.50	-	+	0.607	6	12.50	6.77	6	8.38	4.78	-	+	0.515	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000				
14.2C/14.2	2	5	22.50	15.33	4	23.75	10.43	-	-	0.655	5	15.00	13.78	4	0.63	0.63	-	+	0.386	5	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000				
62762C/50983	2	5	11.50	7.40	6	0.00	0.00	-	+	0.112	5	2.00	2.00	6	0.00	0.00	-	+	0.374	5	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000				
Habitat Means			25.93	12.07		19.27	7.97		+			9.83	7.53		3.00	1.80		-			0.00	0.00		0.00	0.00		o						
Fisher's	Power		0.236		Power-50%	0.556	P-value		0.177	Power	0.114		Power-50%	0.128	P-value		0.155	Power	---		Power-50%	---	P-value		0.655	Power	---		Power-50%	---	P-value		0.500
Stouffer's	Power		---		Power-50%	---	P-value		0.070	Power	0.212		Power-50%	0.257	P-value		0.106	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.500
14.1C/14.1	3	5	37.00	6.44	5	53.50	16.14	-	-	0.339	5	10.50	3.82	5	19.50	7.22	-	-	0.304	5	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000				
14.2C/14.2	3	2	32.50	12.50	4	43.13	15.12	-	-	0.720	2	16.25	6.25	4	25.00	11.23	-	-	0.760	2	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000				
62762C/50983	3	5	21.00	12.06	4	16.25	8.81	-	-	0.766	5	2.50	1.58	4	13.75	8.07	-	-	0.193	5	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000				
Habitat Means			30.17	10.33		37.63	13.33		-			9.77	3.90		19.43	8.83		-			0.00	0.00		0.00	0.00		o						
Fisher's	Power		0.030		Power-50%	0.608	P-value		0.364	Power	0.195		Power-50%	0.684	P-value		0.109	Power	---		Power-50%	---	P-value		0.655	Power	---		Power-50%	---	P-value		0.500
Stouffer's	Power		0.041		Power-50%	0.675	P-value		0.459	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.

Table C 5.376. Page 1. December 15, 1994

Gigartinaeae 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	1.67	1.24	6	0.83	0.83	-	+	0.580	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	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	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	0.00	-	o	1.000				
Habitat Means			0.57	0.40		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		0.002		Power-50%	0.006	P-value		0.512	Power	---		Power-50%	---	P-value		0.655	Power	---		Power-50%	---	P-value		0.655	Power	---		Power-50%	---	P-value		0.500
Stouffer's	Power		0.000		Power-50%	0.001	P-value		0.437	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	3.75	2.39	6	7.95	4.76	-	-	0.508	6	8.75	7.30	6	0.00	0.00	-	+	0.171	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000				
14.2C/14.2	2	5	11.50	11.50	4	0.63	0.63	-	-	0.526	5	2.50	2.50	4	0.00	0.00	-	+	0.374	5	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000				
62762C/50983	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	0.00	-	o	1.000				
Habitat Means			5.10	4.63		2.87	1.80		-			4.43	3.93		0.00	0.00		+			0.00	0.00		0.00	0.00		o						
Fisher's	Power		0.026		Power-50%	0.133	P-value		0.578 y	Power	---		Power-50%	---	P-value		0.071	Power	---		Power-50%	---	P-value		0.655	Power	---		Power-50%	---	P-value		0.500
Stouffer's	Power		0.026		Power-50%	0.143	P-value		0.497	Power	---		Power-50%	---	P-value		0.072	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.500
14.1C/14.1	3	5	2.00	2.00	5	14.50	5.78	-	-	0.067	5	5.50	3.91	5	0.00	0.00	-	+	0.195	5	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000				
14.2C/14.2	3	2	6.25	6.25	4	15.63	7.32	-	-	0.514	2	5.00	5.00	4	5.63	3.29	-	-	0.837	2	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000				
62762C/50983	3	5	0.00	0.00	4	1.25	0.72	-	-	0.182	5	1.50	1.00	4	11.88	7.32	-	-	0.255	5	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000				
Habitat Means			2.77	2.77		10.47	4.60		-			4.00	3.30		5.83	3.53		-			0.00	0.00		0.00	0.00		o						
Fisher's	Power		---		Power-50%	---	P-value		0.026	Power	0.109		Power-50%	0.332	P-value		0.416	Power	---		Power-50%	---	P-value		0.655	Power	---		Power-50%	---	P-value		0.500
Stouffer's	Power		---		Power-50%	---	P-value		0.027	Power	0.035		Power-50%	0.453	P-value		0.232	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 5.376. Page 2. December 15, 1994



Table C-5.376. Algal Percent Cover, Rhodophyta, Cook Inlet/Kenai, Sheltered Rocky, May 1991. Overstory removed June 1990. (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	13.75	6.85	-	-	0.017				
14.2C/14.2	1	6	47.50	17.49	4	14.37	10.63	-	+	0.244	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	12.08	5.30	4	0.63	0.63	-	+	0.116				
62762C/50983	1	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	4.58	3.06	6	0.00	0.00	-	-	0.180				
Habitat Means			16.67	6.67		4.80	3.53	-				0.00	0.00		0.00	0.00	-	o			5.57	2.80		4.80	2.50	-						
Fisher's	Power		0.089		Power-50%	0.109	P-value		0.173		Power	---		Power-50%	---	P-value		0.655		Power	0.092		Power-50%	0.118	P-value		0.104					
Stouffer's	Power		0.123		Power-50%	0.136	P-value		0.122		Power	---		Power-50%	---	P-value		0.500		Power	0.000		Power-50%	0.165	P-value		0.160					
14.1C/14.1	2	6	0.00	0.00	6	0.43	0.43	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	20.83	5.39	6	13.48	6.12	-	-	0.420				
14.2C/14.2	2	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	6.00	6.00	4	13.75	5.82	-	-	0.159				
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			0.33	0.33		0.13	0.13	-				0.00	0.00		0.00	0.00	-	o			8.93	3.80		9.10	3.97	-						
Fisher's	Power		---		Power-50%	---	P-value		0.517	y	Power	---		Power-50%	---	P-value		0.655		Power	0.033		Power-50%	0.282	P-value		0.328					
Stouffer's	Power		---		Power-50%	---	P-value		0.498		Power	---		Power-50%	---	P-value		0.500		Power	0.014		Power-50%	0.295	P-value		0.432					
14.1C/14.1	3	5	2.50	1.58	5	0.00	0.00	-	+	0.181	5	0.50	0.50	5	5.00	3.16	-	-	0.269	5	11.50	3.84	5	18.00	5.44	-	-	0.323				
14.2C/14.2	3	2	0.00	0.00	4	2.50	1.77	-	-	0.204	2	5.00	5.00	4	1.25	0.72	-	-	0.535	2	10.00	0.00	4	6.88	5.24	-	-	0.336				
62762C/50983	3	5	1.00	1.00	4	0.00	0.00	-	-	0.374	5	0.00	0.00	4	0.63	0.63	-	-	0.391	5	4.50	2.00	4	0.00	0.00	-	-	0.075				
Habitat Means			1.17	0.87		0.83	0.60	-				1.83	1.83		2.30	1.50	-				8.67	1.93		8.30	3.53	-						
Fisher's	Power		0.023		Power-50%	0.085	P-value		0.212		Power	0.199		Power-50%	---	P-value		0.246		Power	0.374		Power-50%	0.793	P-value		0.106					
Stouffer's	Power		0.008		Power-50%	0.109	P-value		0.202		Power	0.185		Power-50%	---	P-value		0.178		Power	---		Power-50%	---	P-value		0.462					

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

Table C-5.376, Page 3, December 15, 1994

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	2.50	1.71	-	-	0.183				
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	8.33	4.64	4	0.00	0.00	-	-	0.056				
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	4.58	3.06	6	0.00	0.00	-	+	0.180				
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			4.30	2.57		0.83	0.57							
Fisher's	Power		---		Power-50%	---	P-value		0.655		Power	---		Power-50%	---	P-value		0.655		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		0.082					
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.42	0.42	6	2.08	2.08	-	-	0.619	6	1.25	1.25	6	3.35	2.47	-	-	0.503				
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	5.00	4	2.50	2.50	-	-	0.865				
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		0.70	0.70		-			2.10	2.10		1.97	1.67		-					
Fisher's	Power		---		Power-50%	---	P-value		0.655		Power	---		Power-50%	---	P-value		0.529		Power	0.008		Power-50%	---	P-value		0.508	y				
Stouffer's	Power		---		Power-50%	---	P-value		0.500		Power	---		Power-50%	---	P-value		0.444		Power	0.013		Power-50%	---	P-value		0.443					
14.1C/14.1	3	5	0.00	0.00	5	2.50	1.58	-	-	0.181	5	5.00	3.87	5	0.00	0.00	-	+	0.210	5	0.00	0.00	3	0.00	0.00	-	o	1.000				
14.2C/14.2	3	2	0.00	0.00	4	3.13	3.13	-	-	0.391	2	0.00	0.00	4	0.63	0.63	-	-	0.391	2	2.50	2.50	4	0.00	0.00	-	-	0.500				
62762C/50983	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.50	0.50	4	0.00	0.00	-	+	0.374	5	0.00	0.00	4	0.00	0.00	-	o	1.000				
Habitat Means			0.00	0.00		1.87	1.57		-			1.83	1.47		0.20	0.20		-			0.83	0.83		0.00	0.00		-					
Fisher's	Power		0.114		Power-50%	---	P-value		0.149		Power	0.011		Power-50%	0.022	P-value		0.217		Power	---		Power-50%	---	P-value		0.476					
Stouffer's	Power		0.150		Power-50%	---	P-value		0.266		Power	0.016		Power-50%	0.038	P-value		0.177		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-5.376, Page 4, December 15, 1994

Table C-5.376. Algal Percent Cover, Rhodophyta, Cook Inlet/Kenai, Sheltered Rocky, May 1991. Overstory removed June 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	6	0.00	0.00	6	11.25	7.09	-	-	0.054	6	0.00	0.00	6	0.00	0.00	-	-	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	-	1.000
14.2C/14.2	1	6	3.33	2.11	4	0.63	0.63	-	+	0.476	6	0.00	0.00	4	0.00	0.00	-	-	1.000	6	0.42	0.42	4	0.00	0.00	0.00	-	+	0.363
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	-	1.000	6	0.00	0.00	6	0.00	0.00	-	-	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	-	1.000
Habitat Means			1.10	0.70		3.97	2.57	-				0.00	0.00		0.00	0.00	-	-			0.13	0.13		0.00	0.00	0.00	-		
Fisher's	Power		0.127		Power-50%	0.016	P-value		0.165	Power	---		Power-50%	---	P-value		0.655	Power	---		Power-50%	---	P-value		0.403				
Stouffer's	Power		0.061		Power-50%	0.016	P-value		0.364	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.398				
14.1C/14.1	2	6	0.42	0.42	6	7.62	4.53	-	-	0.082	6	0.00	0.00	6	0.00	0.00	-	-	1.000	6	3.75	3.75	6	0.00	0.00	0.00	-	-	0.363
14.2C/14.2	2	5	1.00	1.00	4	11.25	6.81	-	-	0.101	5	0.00	0.00	4	0.00	0.00	-	-	1.000	5	0.00	0.00	4	0.00	0.00	0.00	-	-	1.000
62762C/50983	2	5	0.00	0.00	6	0.00	0.00	-	-	1.000	5	0.00	0.00	6	0.00	0.00	-	-	1.000	5	0.00	0.00	6	0.00	0.00	0.00	-	-	1.000
Habitat Means			0.47	0.47		6.30	3.77	-				0.00	0.00		0.00	0.00	-	-			1.27	1.27		0.00	0.00	0.00	-		
Fisher's	Power		---		Power-50%	---	P-value		0.033	Power	---		Power-50%	---	P-value		0.655	Power	---		Power-50%	---	P-value		0.403				
Stouffer's	Power		0.421		Power-50%	---	P-value		0.167	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.398				
14.1C/14.1	3	5	0.00	0.00	5	0.00	0.00	-	-	1.000	5	0.00	0.00	5	0.00	0.00	-	-	1.000	5	0.50	0.50	5	0.00	0.00	0.00	-	+	0.374
14.2C/14.2	3	2	0.00	0.00	4	0.00	0.00	-	-	1.000	2	0.00	0.00	4	0.00	0.00	-	-	1.000	2	0.00	0.00	4	0.63	0.63	-	-	0.391	
62762C/50983	3	5	0.00	0.00	4	0.00	0.00	-	-	1.000	5	0.00	0.00	4	0.00	0.00	-	-	1.000	5	1.50	1.50	4	0.00	0.00	0.00	-	+	0.374
Habitat Means			0.00	0.00		0.00	0.00	-	-			0.00	0.00		0.00	0.00	-	-			0.67	0.67		0.20	0.20	0.00	-		
Fisher's	Power		---		Power-50%	---	P-value		0.655	Power	---		Power-50%	---	P-value		0.655	Power	---		Power-50%	---	P-value		0.308				
Stouffer's	Power		---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.205				

(a) Genera not separated.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.376, Page 5, December 15, 1994

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	-	-	1.000	6	0.00	0.00	6	0.00	0.00	-	-	1.000	6	0.00	0.00	6	0.00	0.00	-	-	1.000				
14.2C/14.2	1	6	0.00	0.00	4	0.00	0.00	-	-	1.000	6	0.00	0.00	4	0.00	0.00	-	-	1.000	6	0.00	0.00	4	0.00	0.00	-	-	1.000				
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	-	1.000	6	0.00	0.00	6	0.00	0.00	-	-	1.000	6	0.00	0.00	6	0.00	0.00	-	-	1.000				
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 Stouffer's	Power		---		Power-50%	---	P-value		0.655	Power	---		Power-50%	---	P-value		0.655	Power	---		Power-50%	---	P-value		0.655							
	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	15.00	6.74	6	0.43	0.43	-	-	0.100	6	0.00	0.00	6	0.00	0.00	-	-	1.000	6	1.67	1.67	6	0.00	0.00	-	-	0.363				
14.2C/14.2	2	5	0.00	0.00	4	0.00	0.00	-	-	1.000	5	0.00	0.00	4	0.00	0.00	-	-	1.000	5	0.00	0.00	4	0.00	0.00	-	-	1.000				
62762C/50983	2	5	0.00	0.00	6	0.00	0.00	-	-	1.000	5	0.00	0.00	6	0.00	0.00	-	-	1.000	5	7.50	5.36	6	0.00	0.00	-	-	0.197				
Habitat Means			5.00	2.23		0.13	0.13	-				0.00	0.00		0.00	0.00		-			3.07	2.37		0.00	0.00		-					
Fisher's Stouffer's	Power		0.261		Power-50%	0.108	P-value		0.187	Power	---		Power-50%	---	P-value		0.655	Power	---		Power-50%	---	P-value		0.151							
	Power		0.104		Power-50%	0.068	P-value		0.319	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.075							
14.1C/14.1	3	5	6.00	3.22	5	2.00	1.22	-	-	0.362	5	0.00	0.00	5	13.50	6.92	-	-	0.054	5	1.00	0.61	5	0.00	0.00	-	-	0.178				
14.2C/14.2	3	2	2.50	2.50	4	2.50	1.77	-	-	0.977	2	5.00	5.00	4	0.00	0.00	-	-	0.500	2	0.00	0.00	4	3.13	1.88	-	-	0.185				
62762C/50983	3	5	2.00	1.22	4	0.00	0.00	-	-	0.178	5	0.50	0.50	4	0.00	0.00	-	-	0.374	5	4.00	2.92	4	2.50	2.50	-	-	0.714				
Habitat Means			3.50	2.30		1.50	1.00	-				1.83	1.83		4.50	2.30	-				1.67	1.17		1.87	1.47	-						
Fisher's Stouffer's	Power		0.309		Power-50%	0.447	P-value		0.143	Power	0.008		Power-50%	---	P-value		0.403	Power	0.050		Power-50%	0.120	P-value		0.312							
	Power		---		Power-50%	---	P-value		0.069	Power	0.000		Power-50%	---	P-value		0.324	Power	0.017		Power-50%	0.187	P-value		0.367							

(b) Genera not separated.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.376, Page 6, December 15, 1994

Table C-5.376. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai, Sheltered Rocky. May 1991. Overstory removed June 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	6	0.00	0.00	6	0.00	0.00	~	o	1.000	6	0.00	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	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		
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	7.50	5.36	6	0.00	0.00	~	+	0.197	5	0.00	0.00	6	0.00	0.00	~	o	1.000	5	2.00	1.46	6	0.00	0.00	~	+	0.198		
Habitat Means			3.07	2.37		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.67	0.50		0.00	0.00		+			
Fisher's	Power		0.043		Power-50%		0.052	P-value	0.151		Power	---		Power-50%		---	P-value	0.655		Power	0.001		Power-50%		0.007	P-value	0.286			
Stouffer's	Power		---		Power-50%		---	P-value	0.075		Power	---		Power-50%		---	P-value	0.500		Power	0.000		Power-50%		0.001	P-value	0.120			
14.1C/14.1	3	5	1.00	0.61	5	0.00	0.00	~	+	0.178	5	0.00	0.00	5	0.00	0.00	~	o	1.000	5	6.50	4.85	5	0.00	0.00	~	+	0.204		
14.2C/14.2	3	2	0.00	0.00	4	3.13	1.88	~	+	0.185	2	0.00	0.00	4	0.00	0.00	~	o	1.000	2	6.25	6.25	4	6.88	4.72	~	+	0.983		
62762C/50983	3	5	4.00	2.92	4	2.50	2.50	~	+	0.714	5	0.00	0.00	4	0.00	0.00	~	o	1.000	5	9.00	6.60	4	0.00	0.00	~	+	0.134		
Habitat Means			1.67	1.17		1.87	1.47		+			0.00	0.00		0.00	0.00		o			7.27	5.93		2.30	1.57		+			
Fisher's	Power		0.051		Power-50%		0.122	P-value	0.312	y	Power	---		Power-50%		---	P-value	0.655		Power	---		Power-50%		---	P-value	0.079			
Stouffer's	Power		0.016		Power-50%		0.186	P-value	0.367		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-5.376. Page 7. December 15, 1994

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	6	0.00	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	2.04	6	6.25	5.76	-	-	0.714		
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	1.88	1.88	-	-	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			0.83	0.67		2.73	2.57		-			
Fisher's	Power		---		Power-50%		---	P-value	0.655		Power	---		Power-50%		---	P-value	0.655		Power	0.004		Power-50%		0.001	P-value	0.348			
Stouffer's	Power		---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---	P-value	0.500		Power	0.007		Power-50%		0.000	P-value	0.364			
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	8.75	4.91	6	12.13	5.79	-	-	0.638		
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	1.50	1.50	4	9.38	9.38	-	-	0.511		
62762C/50983	2	5	0.00	0.00	6	0.00	0.00	~	o	1.000	5	2.00	1.46	6	0.00	0.00	~	-	0.198	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	0.50		0.00	0.00		-			3.43	2.13		7.17	5.07		-			
Fisher's	Power		---		Power-50%		---	P-value	0.655		Power	0.004		Power-50%		0.007	P-value	0.286		Power	0.054		Power-50%		0.068	P-value	0.380			
Stouffer's	Power		---		Power-50%		---	P-value	0.500		Power	0.001		Power-50%		0.003	P-value	0.120		Power	0.068		Power-50%		0.086	P-value	0.374			
14.1C/14.1	3	5	0.00	0.00	5	0.00	0.00	~	o	1.000	5	6.50	4.85	5	0.00	0.00	~	-	0.204	5	7.50	3.71	5	16.00	15.38	-	-	0.884		
14.2C/14.2	3	2	0.00	0.00	4	0.00	0.00	~	o	1.000	2	6.25	6.25	4	6.88	4.72	~	-	0.983	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	9.00	6.60	4	0.00	0.00	~	+	0.134	5	1.00	1.00	4	0.00	0.00	-	-	0.374		
Habitat Means			0.00	0.00		0.00	0.00		o			7.27	5.93		2.30	1.57		+			2.83	1.57		5.77	5.57		-			
Fisher's	Power		---		Power-50%		---	P-value	0.655		Power	---		Power-50%		---	P-value	0.079		Power	0.001		Power-50%		0.120	P-value	0.504			
Stouffer's	Power		---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---	P-value	0.042		Power	0.001		Power-50%		0.141	P-value	0.701			

(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-5.376. Page 8. December 15, 1994

Table C-5.376. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. May 1991. Overstory removed June 1990. (Continued.)

Crustose Coralline Algae (P)										Hildenbrandia sp. (P)										Petrocelia (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	2.50	2.04	6	5.83	5.83	-	-	0.880	6	0.00	0.00	6	0.42	0.42	-	-	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	1.88	1.88	-	-	0.391	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			0.83	0.67		2.57	2.57		-			0.00	0.00		0.13	0.13		-		
Fisher's	Power		---		Power-50%		---		P-value	0.655	Power	0.001		Power-50%		0.001		P-value	0.391	Power	---		Power-50%		---		P-value	0.403	
Stouffer's	Power		---		Power-50%		---		P-value	0.500	Power	0.004		Power-50%		0.000		P-value	0.387	Power	---		Power-50%		---		P-value	0.398	
14.1C/14.1	2	6	1.25	1.25	6	0.00	0.00	-	+	0.363	6	7.50	3.71	6	12.13	5.79	-	-	0.539	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	9.38	9.38	-	-	0.391	5	1.50	1.50	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	0.00	0.00	-	o	1.000	
Habitat Means			0.43	0.43		0.00	0.00		+			2.50	1.23		7.17	5.07		-			0.50	0.50		0.00	0.00		+		
Fisher's	Power		---		Power-50%		---		P-value	0.403	Power	0.057		Power-50%		0.028		P-value	0.296	Power	---		Power-50%		---		P-value	0.409	
Stouffer's	Power		---		Power-50%		---		P-value	0.398	Power	0.074		Power-50%		0.009		P-value	0.337	Power	---		Power-50%		---		P-value	0.400	
14.1C/14.1	3	5	0.00	0.00	5	0.50	0.50	-	-	0.374	5	7.50	3.71	5	15.50	15.50	-	-	0.991	5	0.00	0.00	5	0.00	0.00	-	o	1.000	
14.2C/14.2	3	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	
62762C/50983	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	0.00	0.00	4	0.00	0.00	-	o	1.000	
Habitat Means			0.33	0.33		0.60	0.60		-			2.50	1.23		5.17	5.17		-			0.00	0.00		0.00	0.00		o		
Fisher's	Power		---		Power-50%		---		P-value	0.318	Power	0.002		Power-50%		0.043		P-value	0.653	Power	---		Power-50%		---		P-value	0.655	
Stouffer's	Power		---		Power-50%		---		P-value	0.624	Power	0.000		Power-50%		0.017		P-value	0.499	Power	---		Power-50%		---		P-value	0.655	

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

Table C 5.376. Page 9. December 15, 1994

Table C-5.377. Algal Percent Cover. Invertebrates. Cook Inlet/Kenai, Sheltered Rocky, May 1991. Overstory removed 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	3.33	1.54	6	11.67	4.50	-	-	0.235	6	0.00	0.00	6	0.00	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	14.58	7.94	4	28.13	21.30	-	-	0.601	6	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	37.50	11.44	6	8.75	3.69	-	-	0.066	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			18.47	6.93		16.20	9.83		-			0.00	0.00		0.00	0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power	0.129		Power-50%		0.609	P-value		0.344xy	Power	---		Power-50%		---	P-value		0.655	
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	0.016		Power-50%		0.687	P-value		0.884	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	6.67	3.96	6	8.33	3.86	-	-	0.903	6	0.00	0.00	6	0.00	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	5.00	3.16	4	19.37	10.07	-	-	0.194	5	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000
62762C/50983	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	5.00	4.40	6	12.08	6.34	-	-	0.369	5	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			5.57	3.87		13.27	6.77		-			0.00	0.00		0.00	0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power	0.353		Power-50%		0.329	P-value		0.141	Power	---		Power-50%		---	P-value		0.655	
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	0.418		Power-50%		0.496	P-value		0.110	Power	---		Power-50%		---	P-value		0.500	
14.1C/14.1	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	6.00	4.23	5	0.00	0.00	-	-	0.126	5	0.00	0.00	5	0.00	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	12.50	12.50	-	-	0.391	2	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000
62762C/50983	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	20.00	5.86	4	11.25	11.25	-	-	0.191	5	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			8.67	3.37		7.93	7.93		-			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		0.100	Power	---		Power-50%		---	P-value		0.655	
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.083	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-5.377. Page 1. December 15, 1994

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	0.42	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	5.00	2.14	6	0.83	0.83	-	-	0.086	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.13	0.13		0.00	0.00		+			1.67	0.70		0.27	0.27		+			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.403	Power	0.074		Power-50%		0.056	P-value		0.170	Power	---		Power-50%		---	P-value		0.655
Stouffer's	Power		---		Power-50%		---	P-value		0.398	Power	---		Power-50%		---	P-value		0.058	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	1.25	1.25	-	-	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	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	2.50	2.50	6	7.08	6.14	-	-	0.596	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.83	0.83		3.00	2.67		-			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power	0.043		Power-50%		---	P-value		0.168	Power	---		Power-50%		---	P-value		0.655
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	0.172		Power-50%		---	P-value		0.161	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	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
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	8.75	8.75	-	-	0.391	5	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.17	0.17		0.00	0.00		+			0.00	0.00		2.93	2.93		-			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		0.400	Power	---		Power-50%		---	P-value		0.216	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-5.377. Page 2. December 15, 1994

Table C-5.377. Algal Percent Cover. Invertebrates. Cook Inlet/Kenai. Sheltered Rocky. May 1991. Overstory removed June 1990. (Continued.)

Littorinidae										Porifera								Cnidaria										
Site Pair	Mvd	N	C	SE	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	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	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	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	0.00	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		1.33	1.03		-	
Fisher's	Power		---		Power-50%		---	P-value	0.655	Power	---		Power-50%		---	P-value	0.655	Power	---		Power-50%		---	P-value	0.419			
Stouffer's	Power		---		Power-50%		---	P-value	0.500	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-5.377, Page 3, December 15, 1994

**Table C-5.378. Algal Percent Cover. Substrates. Cook Inlet/Kenai. Sheltered Rocky. May 1991. Overstory removed 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	60.83	8.48	6	37.92	10.38	-	+	0.114	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
14.2C/14.2	1	6	15.83	9.95	4	33.13	18.52	-	-	0.409	6	0.00	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	16.25	4.95	6	42.08	15.59	-	-	0.337	6	0.00	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			30.97	7.83		37.70	14.83		-			0.00	0.00		0.70	0.70		-			0.00	0.00		0.00	0.00		o	
Fisher's	Power		0.225			Power-50%	0.568			0.335	Power	---			Power-50%	---			0.403	Power	---			Power-50%	---			0.655
Stouffer's	Power		0.139			Power-50%	0.640			0.254	Power	---			Power-50%	---			0.398	Power	---			Power-50%	---			0.500
14.1C/14.1	2	6	32.50	15.19	6	31.72	11.47	-	+	0.944	6	0.00	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	1.00	1.00	4	27.50	16.14	-	-	0.075	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	11.50	4.65	6	14.17	8.72	-	-	0.794	5	0.00	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			15.00	6.97		24.47	12.10		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		0.181			Power-50%	0.437			0.138	Power	---			Power-50%	---			0.655	Power	---			Power-50%	---			0.655
Stouffer's	Power		0.204			Power-50%	0.514			0.234	Power	---			Power-50%	---			0.500	Power	---			Power-50%	---			0.500
14.1C/14.1	3	5	16.00	6.87	5	1.50	1.50	-	+	0.056	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	3	2	7.50	7.50	4	6.25	2.39	-	+	0.918	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	34.50	14.15	4	10.63	5.04	-	+	0.163	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			19.33	9.53		6.13	2.97		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---			Power-50%	---			0.033	Power	---			Power-50%	---			0.655	Power	---			Power-50%	---			0.655
Stouffer's	Power		---			Power-50%	---			0.032	Power	---			Power-50%	---			0.500	Power	---			Power-50%	---			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-5.378. Page 1. December 15, 1994

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	0.42	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	0.00	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		0.13	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%	---			0.403	Power	---			Power-50%	---			0.655	Power	---			Power-50%	---			0.655
Stouffer's	Power		---			Power-50%	---			0.398	Power	---			Power-50%	---			0.500	Power	---			Power-50%	---			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	12.92	12.92	-	-	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		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%	---			0.403	Power	---			Power-50%	---			0.655	Power	---			Power-50%	---			0.655
Stouffer's	Power		---			Power-50%	---			0.203	Power	---			Power-50%	---			0.500	Power	---			Power-50%	---			0.500
14.1C/14.1	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
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%	---			0.655	Power	---			Power-50%	---			0.655	Power	---			Power-50%	---			0.655
Stouffer's	Power		---			Power-50%	---			0.500	Power	---			Power-50%	---			0.500	Power	---			Power-50%	---			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-5.378. Page 2. December 15, 1994

Table C-5.378. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Sheltered Rocky. May 1991. Overstory removed June 1990. (Continued.)

Site Pair	Mvd	N	Sand and Mud								Total Substrate																	
			C	SE	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	60.83	8.48	6	40.42	11.77	-	+	0.185									
14.2C/14.2	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	15.83	9.95	4	33.13	18.52	-	-	0.409									
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	16.25	4.95	6	42.08	15.59	-	-	0.337									
Habitat Means			0.00	0.00		0.13	0.13	-				30.97	7.83		38.53	15.30	-											
Fisher's	Power		---		Power-50%	---	P-value			0.403	Power	0.234		Power-50%		0.601	P-value		0.327	Power	---		Power-50%	---	P-value			
Stouffer's	Power		---		Power-50%	---	P-value			0.398	Power	0.144		Power-50%		0.651	P-value		0.231	Power	---		Power-50%	---	P-value			
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	32.50	15.19	6	31.72	11.47	-	-	0.944									
14.2C/14.2	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	1.00	1.00	4	27.50	16.14	-	-	0.075									
62762C/50983	2	5	0.00	0.00	6	12.92	12.92	-	-	0.363	5	11.50	4.65	6	27.08	16.13	-	-	0.691									
Habitat Means			0.00	0.00		4.30	4.30	-				15.00	6.97		28.77	14.57	-											
Fisher's	Power		---		Power-50%	---	P-value			0.403	Power	0.227		Power-50%		0.463	P-value		0.126	Power	---		Power-50%	---	P-value			
Stouffer's	Power		---		Power-50%	---	P-value			0.203	Power	0.279		Power-50%		0.531	P-value		0.197	Power	---		Power-50%	---	P-value			
14.1C/14.1	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	16.00	6.87	5	1.50	1.50	-	+	0.056									
14.2C/14.2	3	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	7.50	7.50	4	6.25	2.39	-	+	0.918									
62762C/50983	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	34.50	14.15	4	10.63	5.04	-	-	0.163									
Habitat Means			0.00	0.00		0.00	0.00	-	o			19.33	9.53		6.13	2.97	-											
Fisher's	Power		---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.033	Power	---		Power-50%	---	P-value			
Stouffer's	Power		---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.032	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-5.378. Page 3. December 15, 1994



**Table C-5.379. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Overstory removed 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	N	Algal Diversity Index (a)							Algal Taxa Richness (b)							Total Algae											
			C	SE	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	0.02	0.02	5	0.17	0.10	-	-	0.205	5	1.00	0.32	5	2.00	0.55	-	-	0.153	5	21.50	15.46	5	51.50	14.76	-	-	0.142
14.2C/14.2	1	6	0.25	0.07	5	0.12	0.06	-	+	0.201	6	2.83	0.70	5	1.20	0.49	-	+	0.101	6	67.08	16.94	5	15.00	6.71	-	+	0.027
62762C/50983	1	5	0.10	0.10	6	0.04	0.04	-	+	0.553	5	1.20	0.73	6	0.50	0.34	-	+	0.383	5	34.50	17.47	6	8.75	7.79	-	+	0.194
Habitat Means			0.12	0.06		0.11	0.07		+			1.68	0.58		1.23	0.46		+			41.03	16.63		25.10	9.77		+	
Fisher's	Power		0.073		Power-50%	0.379	P-value		0.287		Power	0.284		Power-50%	0.846	P-value		0.151		Power	---		Power-50%	---	P-value		0.037	
Stouffer's	Power		0.020		Power-50%	0.460	P-value		0.293		Power	0.111		Power-50%	0.868	P-value		0.196		Power	---		Power-50%	---	P-value		0.080	
14.1C/14.1	2	6	0.33	0.10	6	0.52	0.06	-	-	0.160	6	3.67	0.95	6	4.33	0.49	-	-	0.549	6	64.58	14.00	6	55.42	8.84	-	-	0.410
14.2C/14.2	2	5	0.34	0.09	6	0.24	0.12	-	+	0.530	5	3.60	0.93	6	2.50	0.85	-	-	0.404	5	87.00	6.96	6	25.00	9.90	-	-	0.002
62762C/50983	2	6	0.27	0.10	4	0.03	0.03	-	+	0.083	6	3.33	0.84	4	1.25	0.25	-	+	0.088	6	58.75	12.73	4	43.13	19.29	-	-	0.699
Habitat Means			0.32	0.10		0.26	0.07		+			3.53	0.91		2.69	0.53		+			70.13	11.23		41.17	12.67		+	
Fisher's	Power		0.309		Power-50%	0.837	P-value		0.163		Power	0.271		Power-50%	0.751	P-value		0.121		Power	---		Power-50%	---	P-value		0.004	
Stouffer's	Power		---		Power-50%	0.460	P-value		0.086		Power	---		Power-50%	0.868	P-value		0.052		Power	---		Power-50%	---	P-value		0.069	
14.1C/14.1	3	5	0.40	0.12	6	0.67	0.07	-	-	0.080	5	5.00	1.30	6	7.33	0.76	-	-	0.141	5	77.50	14.60	6	94.17	4.86	-	-	0.238
14.2C/14.2	3	2	0.45	0.05	5	0.55	0.11	-	-	0.584	2	4.50	0.50	5	5.00	1.52	-	-	0.852	2	93.75	1.25	5	44.00	14.27	-	-	0.071
62762C/50983	3	5	0.47	0.08	5	0.11	0.08	-	-	0.015	5	4.60	0.60	5	2.00	0.77	-	+	0.029	5	62.50	14.38	5	78.00	9.98	-	-	0.495
Habitat Means			0.44	0.08		0.44	0.09		-			4.70	0.80		4.78	1.02		-			77.93	10.10		72.07	9.73		-	
Fisher's	Power		0.123		Power-50%	0.996	P-value		0.178x		Power	0.083		Power-50%	0.907	P-value		0.317x		Power	0.125		Power-50%	0.819	P-value		0.309xy	
Stouffer's	Power		0.006		Power-50%	0.996	P-value		0.943		Power	0.004		Power-50%	0.929	P-value		0.936		Power	0.026		Power-50%	0.858	P-value		0.328	

(a) Modified Shannon Index.

(b) TAXA richness calculations are explained in the methods.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.379. Page 1. December 15, 1994

Site Pair	Mvd	N	Total Invertebrates							Rock							Perennials (P)											
			C	SE	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	10.50	8.23	5	13.50	10.17	-	-	0.873	5	68.00	18.45	5	35.00	11.94	-	+	0.154	5	21.50	15.46	5	44.50	16.68	-	-	0.359
14.2C/14.2	1	6	12.92	11.93	5	15.50	7.00	-	-	0.674	6	20.00	15.23	5	69.50	12.85	-	-	0.032	6	27.08	12.19	5	3.00	3.00	-	+	0.067
62762C/50983	1	5	22.50	8.84	6	16.67	5.90	-	+	0.783	5	43.00	17.79	6	74.58	10.15	-	-	0.207	5	24.50	18.41	6	7.08	6.14	-	+	0.407
Habitat Means			15.30	9.63		15.23	7.70		-			43.67	17.17		59.70	11.67		-			24.37	15.37		18.20	8.60		+	
Fisher's	Power		0.099		Power-50%	0.215	P-value		0.567	y	Power	---		Power-50%	---	P-value		0.044		Power	0.148		Power-50%	0.252	P-value		0.110	
Stouffer's	Power		0.129		Power-50%	0.359	P-value		0.535		Power	---		Power-50%	---	P-value		0.087		Power	0.085		Power-50%	0.355	P-value		0.154	
14.1C/14.1	2	6	20.83	9.78	6	8.33	4.55	-	+	0.449	6	14.58	7.26	6	36.25	10.60	-	-	0.138	6	60.00	15.34	6	40.83	9.10	-	+	0.249
14.2C/14.2	2	5	9.00	5.04	6	23.75	10.54	-	-	0.353	5	4.00	2.03	6	50.42	14.10	-	-	0.027	5	70.00	10.64	6	12.92	10.11	-	+	0.004
62762C/50983	2	6	13.33	9.61	4	35.63	14.94	-	-	0.246	6	27.92	11.28	4	21.25	9.21	-	-	0.559	6	46.67	8.84	4	42.50	19.42	-	+	0.932
Habitat Means			14.37	8.13		22.57	10.00		-			15.50	6.87		36.00	11.30		-			58.90	11.57		32.07	12.87		-	
Fisher's	Power		0.297		Power-50%	0.305	P-value		0.226		Power	---		Power-50%	---	P-value		0.023		Power	---		Power-50%	---	P-value		0.006	
Stouffer's	Power		0.198		Power-50%	0.398	P-value		0.133		Power	0.665		Power-50%	0.746	P-value		0.301		Power	0.621		Power-50%	0.963	P-value		0.111	
14.1C/14.1	3	5	9.50	5.56	6	2.92	2.92	-	+	0.257	5	13.00	11.76	6	2.92	1.98	-	+	0.453	5	45.50	16.96	6	37.50	5.24	-	+	0.912
14.2C/14.2	3	2	5.00	0.00	5	30.00	14.30	-	-	0.144	2	1.25	1.25	5	26.00	13.93	-	-	0.250	2	48.75	21.25	5	17.00	3.39	-	+	0.057
62762C/50983	3	5	22.50	16.66	5	8.00	5.56	-	+	0.543	5	15.00	6.47	5	14.00	8.57	-	+	0.910	5	24.00	16.86	5	71.00	8.16	-	-	0.039
Habitat Means			12.33	7.43		13.63	7.60		+			9.77	6.53		14.30	8.17		+			39.43	18.40		41.83	5.60		-	
Fisher's	Power		0.059		Power-50%	0.337	P-value		0.334	y	Power	0.032		Power-50%	0.235	P-value		0.568	y	Power	0.141		Power-50%	0.346	P-value		0.189xy	
Stouffer's	Power		0.044		Power-50%	0.389	P-value		0.322		Power	0.009		Power-50%	0.297	P-value		0.505		Power	0.009		Power-50%	0.398	P-value		0.906	

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.379. Page 2. December 15, 1994

Table C-5.379. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Overstory removed 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	
14.1C/14.1	1	5	0.00	0.00	5	0.00	0.00	-	-	0.253	5	2.08	1.36	5	10.50	6.44	-	-	0.349										
14.2C/14.2	1	6	40.00	17.83	5	12.00	7.35	-	+	0.253	6	2.08	1.36	5	10.50	6.44	-	-	0.349										
62762C/50983	1	5	10.00	8.25	6	1.67	1.67	-	+	0.327	5	10.00	8.25	6	0.00	0.00	-	-	0.228										
Habitat Means			16.67	8.70		6.90	4.27		+			4.03	3.23		3.50	2.13		-											
Fisher's	Power		0.054		Power-50%		0.056	P-value	0.249x		Power	0.013		Power-50%		0.094	P-value	0.411		Power	---		Power-50%		---	P-value			
Stouffer's	Power		0.006		Power-50%		0.086	P-value	0.230		Power	0.019		Power-50%		0.158	P-value	0.202		Power	---		Power-50%		---	P-value			
14.1C/14.1	2	6	4.58	1.64	6	14.58	0.42	-	-	0.013	6	0.00	0.00	6	1.25	1.25	-	-	0.363										
14.2C/14.2	2	5	17.00	6.63	6	12.08	5.22	-	+	0.646	5	0.00	0.00	6	1.67	1.24	-	-	0.194										
62762C/50983	2	6	12.08	5.02	4	0.63	0.63	-	+	0.098	6	1.25	1.25	4	0.00	0.00	-	+	0.363										
Habitat Means			11.23	4.40		9.10	2.07		+			0.43	0.43		1.00	0.83		-											
Fisher's	Power		0.251		Power-50%		0.616	P-value	0.217x		Power	0.021		Power-50%		---	P-value	0.205		Power	---		Power-50%		---	P-value			
Stouffer's	Power		0.032		Power-50%		0.696	P-value	0.175		Power	0.022		Power-50%		---	P-value	0.580		Power	---		Power-50%		---	P-value			
14.1C/14.1	3	5	32.00	17.06	6	56.67	6.79	-	-	0.347	5	2.50	1.58	6	22.50	10.70	-	-	0.038										
14.2C/14.2	3	2	45.00	20.00	5	27.00	11.58	-	+	0.418	2	0.00	0.00	5	7.00	3.66	-	-	0.086										
62762C/50983	3	5	38.50	13.08	5	7.00	4.90	-	-	0.031	5	1.00	0.61	5	4.00	4.00	-	-	0.779										
Habitat Means			38.50	16.73		30.23	7.77		-			1.17	0.73		11.17	6.13		-											
Fisher's	Power		---		Power-50%		---	P-value	0.065		Power	---		Power-50%		---	P-value	0.013		Power	---		Power-50%		---	P-value			
Stouffer's	Power		---		Power-50%		---	P-value	0.026		Power	---		Power-50%		---	P-value	0.090		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 5.379. Page 3. December 15, 1994

Table C-5.380. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Overstory removed 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	1.67	1.67	5	10.50	6.44	-	-	0.255	6	1.25	1.25	5	0.00	0.00	-	+	0.363	6	1.25	1.25	5	0.00	0.00	-	+	0.363	
62762C/50983	1	5	10.00	8.25	6	0.00	0.00	-	+	0.228	5	0.00	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			3.90	3.33		3.50	2.13					0.43	0.43		0.00	0.00		+			0.43	0.43		0.00	0.00		-		
Fisher's	Power		0.002		Power-50%	0.012	P-value		0.423		Power	---		Power-50%	---	P-value		0.403		Power	---		Power-50%	---	P-value		0.403		
Stouffer's	Power		0.004		Power-50%	0.026	P-value		0.218		Power	---		Power-50%	---	P-value		0.398		Power	---		Power-50%	---	P-value		0.398		
14.1C/14.1	2	6	0.83	0.53	6	1.25	1.25	-	-	0.909	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	2	5	0.00	0.00	6	1.67	1.24	-	-	0.194	5	0.00	0.00	6	0.42	0.42	-	-	0.363	5	0.00	0.00	6	0.42	0.42	-	-	0.363	
62762C/50983	2	6	2.92	2.92	4	0.00	0.00	-	-	0.363	6	1.25	1.25	4	0.00	0.00	-	+	0.363	6	1.25	1.25	4	0.00	0.00	-	+	0.363	
Habitat Means			1.23	1.13		1.00	0.83		-			0.43	0.43		0.57	0.57		-			0.43	0.43		0.57	0.57		-		
Fisher's	Power		0.015		Power-50%	0.132	P-value		0.355	y	Power	---		Power-50%	---	P-value		0.301		Power	---		Power-50%	---	P-value		0.301		
Stouffer's	Power		0.014		Power-50%	0.133	P-value		0.666		Power	---		Power-50%	---	P-value		0.623		Power	---		Power-50%	---	P-value		0.623		
14.1C/14.1	3	5	2.50	1.58	6	28.33	11.04	-	-	0.022	5	2.50	1.58	6	21.67	10.38	-	-	0.040	5	2.50	1.58	6	21.67	10.38	-	-	0.040	
14.2C/14.2	3	2	0.00	0.00	5	9.00	4.65	-	-	0.087	2	0.00	0.00	5	7.00	3.66	-	-	0.086	2	0.00	0.00	5	7.00	3.66	-	-	0.086	
62762C/50983	3	5	6.00	4.78	5	2.50	2.50	-	+	0.447	5	1.00	0.61	5	2.50	2.50	-	-	0.917	5	1.00	0.61	5	2.50	2.50	-	-	0.917	
Habitat Means			2.83	2.13		13.27	6.07		-			1.17	0.73		10.40	5.53		-			1.17	0.73		10.40	5.53		-		
Fisher's	Power		---		Power-50%	---	P-value		0.015		Power	---		Power-50%	---	P-value		0.016		Power	---		Power-50%	---	P-value		0.016		
Stouffer's	Power		0.467		Power-50%	0.143	P-value		0.328		Power	0.797		Power-50%	0.303	P-value		0.121		Power	0.794		Power-50%	0.333	P-value		0.121		

(a) Kormannia, Monostroma, Ulva and Ulvella.

x At least one site pair P-value < 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C 5.380. Page 1. December 15, 1994

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	0.42	0.42	5	0.00	0.00	-	+	0.363	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
62762C/50983	1	5	10.00	8.25	6	0.00	0.00	-	+	0.228	5	0.00	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			3.47	2.90		0.00	0.00		+			0.13	0.13		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's	Power		0.013		Power-50%	0.016	P-value		0.166		Power	---		Power-50%	---	P-value		0.403		Power	---		Power-50%	---	P-value		0.655	
Stouffer's	Power		---		Power-50%	---	P-value		0.087		Power	---		Power-50%	---	P-value		0.398		Power	---		Power-50%	---	P-value		0.500	
14.1C/14.1	2	6	0.83	0.53	6	0.00	0.00	-	-	0.175	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	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	1.67	1.67	4	0.00	0.00	-	+	0.363	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			0.83	0.73		0.00	0.00		+			0.70	0.70		0.00	0.00		+			0.13	0.13		0.00	0.00		+	
Fisher's	Power		0.154		Power-50%	0.144	P-value		0.139		Power	---		Power-50%	---	P-value		0.223		Power	---		Power-50%	---	P-value		0.403	
Stouffer's	Power		0.154		Power-50%	0.146	P-value		0.111		Power	---		Power-50%	---	P-value		0.138		Power	---		Power-50%	---	P-value		0.398	
14.1C/14.1	3	5	0.00	0.00	6	6.25	5.76	-	-	0.258	5	0.00	0.00	6	6.25	5.76	-	-	0.258	5	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	0.00	0.00	5	2.00	1.22	-	-	0.178	2	0.00	0.00	5	2.00	1.22	-	-	0.178	2	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	3	5	5.00	5.00	5	0.00	0.00	-	+	0.374	5	5.00	5.00	5	0.00	0.00	-	+	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			1.67	1.67		2.77	2.33		-			1.67	1.67		2.77	2.33		-			0.00	0.00		0.00	0.00		o	
Fisher's	Power		0.024		Power-50%	---	P-value		0.155		Power	0.021		Power-50%	---	P-value		0.155		Power	---		Power-50%	---	P-value		0.655	
Stouffer's	Power		0.030		Power-50%	---	P-value		0.543		Power	0.027		Power-50%	---	P-value		0.543		Power	---		Power-50%	---	P-value		0.500	

Table C-5.380. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Overstory removed 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
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	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	8.50	8.50	6	0.00	0.00	-	-	0.374
Habitat Means			0.50	0.50		0.00	0.00					0.00	0.00		0.00	0.00		o			2.83	2.83		0.00	0.00		-	
Fisher's		Power	---		Power-50%	---	P-value		0.409	Power	---		Power-50%	---	P-value		0.655	Power	---		Power-50%	---	P-value		0.409			
Stouffer's		Power	---		Power-50%	---	P-value		0.208	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	0.00	0.00	-	o	1.000	6	0.00	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-5.380. Page 3. December 15, 1

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	5	0.00	0.00	5	0.00	0.00	-	-	1.000	5	0.00	0.00	5	0.00	0.00	-	-	1.000	5	0.00	0.00	5	0.00	0.00	-	-	1.000
14.2C/14.2	1	6	0.00	0.00	5	10.50	6.44	-	-	0.178	6	0.00	0.00	5	10.50	6.44	-	-	0.178	6	0.00	0.00	5	10.50	6.44	-	-	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	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		3.50	2.13		-			0.00	0.00		3.50	2.13		-			0.00	0.00		0.43	0.43		-	
Fisher's	Power		0.013		Power-50%	---		P-value	0.268	Power	0.009		Power-50%	---		P-value	0.268	Power	0.009		Power-50%	---		Power-50%	---		P-value	0.268
Stouffer's	Power		0.013		Power-50%	---		P-value	0.350	Power	0.009		Power-50%	---		P-value	0.350	Power	0.009		Power-50%	---		Power-50%	---		P-value	0.350
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	1.25	1.25	-	o	0.363	5	0.00	0.00	6	1.25	1.25	-	o	0.363	5	0.00	0.00	6	1.25	1.25	-	o	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		0.43	0.43		-			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%	---		Power-50%	---		P-value	0.403
Stouffer's	Power		---		Power-50%	---		P-value	0.398	Power	---		Power-50%	---		P-value	0.398	Power	---		Power-50%	---		Power-50%	---		P-value	0.398
14.1C/14.1	3	5	0.00	0.00	6	0.42	0.42	-	o	0.363	5	0.00	0.00	6	0.42	0.42	-	o	0.363	5	0.00	0.00	6	0.42	0.42	-	o	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	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		0.13	0.13		-			0.00	0.00		0.13	0.13		-			0.00	0.00		0.13	0.13		-	
Fisher's	Power		---		Power-50%	---		P-value	0.403	Power	---		Power-50%	---		P-value	0.403	Power	---		Power-50%	---		Power-50%	---		P-value	0.403
Stouffer's	Power		---		Power-50%	---		P-value	0.398	Power	---		Power-50%	---		P-value	0.398	Power	---		Power-50%	---		Power-50%	---		P-value	0.398

Genera not separated.

Table C-5.381. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai, Sheltered Rocky, June 1991. Overstory removed 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	20.00	14.64	5	34.00	15.38	-	-	0.457	5	20.00	14.64	5	34.00	15.38	-	-	0.457	5	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	20.42	10.40	5	0.00	0.00	-	+	0.044	6	20.42	10.40	5	0.00	0.00	-	+	0.044	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
62762C/50983	1	5	23.00	18.41	6	7.08	6.14	-	+	0.440	5	23.00	18.41	6	7.08	6.14	-	+	0.440	5	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
Habitat Means			21.13	14.47		13.70	7.17		+			21.13	14.47		13.70	7.17		-			0.00	0.00		0.00	0.00		o		
Fisher's	Power		---		Power-50%	---		P-value	0.082		Power	---		Power-50%	---		P-value	0.082		Power	---		Power-50%	---		P-value	0.655		
Stouffer's	Power		0.186		Power-50%	0.393		P-value	0.142		Power	0.193		Power-50%	0.381		P-value	0.142		Power	---		Power-50%	---		P-value	0.500		
14.1C/14.1	2	6	35.42	16.97	6	21.67	9.35	-	-	0.516	6	34.17	17.35	6	21.67	9.35	-	+	0.570	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
14.2C/14.2	2	5	55.50	15.64	6	2.50	1.58	-	+	0.004	5	55.50	15.64	6	2.50	1.58	-	+	0.004	5	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
62762C/50983	2	6	32.50	8.01	4	42.50	19.42	-	-	0.475	6	32.50	8.01	4	42.50	19.42	-	-	0.475	6	0.42	0.42	4	0.00	0.00	0.00	-	+	0.363
Habitat Means			41.13	13.53		22.23	10.13		+			40.73	13.67		22.23	10.13		+			0.13	0.13		0.00	0.00		+		
Fisher's	Power		---		Power-50%	---		P-value	0.016		Power	---		Power-50%	---		P-value	0.018		Power	---		Power-50%	---		P-value	0.403		
Stouffer's	Power		0.415		Power-50%	0.709		P-value	0.364		Power	0.321		Power-50%	0.625		P-value	0.372		Power	---		Power-50%	---		P-value	0.203		
14.1C/14.1	3	5	44.00	19.92	6	10.00	6.09	-	+	0.156	5	43.50	20.18	6	8.75	4.86	-	+	0.185	5	20.00	20.00	6	6.67	4.82	-	+	0.643	
14.2C/14.2	3	2	15.00	2.50	5	7.50	1.94	-	+	0.085	2	15.00	2.50	5	7.50	1.94	-	+	0.085	2	8.75	8.75	5	1.50	1.00	-	-	0.366	
62762C/50983	3	5	40.00	15.41	5	72.00	8.19	-	-	0.139	5	40.00	15.41	5	70.50	8.19	-	-	0.156	5	20.00	7.91	5	0.00	0.00	-	-	0.035	
Habitat Means			33.00	12.60		29.83	5.40		+			32.83	12.70		28.93	5.00		+			16.27	12.23		2.73	1.93		-		
Fisher's	Power		---		Power-50%	---		P-value	0.072		Power	---		Power-50%	---		P-value	0.081		Power	---		Power-50%	---		P-value	0.033		
Stouffer's	Power		0.213		Power-50%	0.425		P-value	0.676		Power	0.269		Power-50%	0.846		P-value	0.667		Power	---		Power-50%	---		P-value	0.010		

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

Table C-5.381. Page 1. December 15, 1994

Total <i>Fucus gardneri</i> (P)										Adult <i>Fucus gardneri</i> (P) (> 2cm)										Juvenile <i>Fucus gardneri</i> (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	20.00	14.64	5	34.00	15.38	-	-	0.457	5	19.00	14.27	5	33.50	15.48	-	-	0.433	5	1.00	0.61	5	0.50	0.50	-	-	0.545	
14.2C/14.2	-	6	20.42	10.40	5	0.00	0.00	-	+	0.044	6	19.17	10.60	5	0.00	0.00	-	+	0.053	6	1.25	1.25	5	0.00	0.00	-	-	0.363	
62762C/50983	1	5	23.00	18.41	6	7.08	6.14	-	+	0.440	5	23.00	18.41	6	7.08	6.14	-	+	0.440	5	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
Habitat Means			21.13	14.47		13.70	7.17		+			20.40	14.43		13.53	7.20		+			0.77	0.63		0.17	0.17		+		
Fisher's	Power		---		Power-50%	---		P-value	0.082		Power	---		Power-50%	---		P-value	0.095		Power	0.061		Power-50%	0.115		P-value	0.286		
Stouffer's	Power		0.190		Power-50%	0.357		P-value	0.142		Power	0.154		Power-50%	0.371		P-value	0.150		Power	0.066		Power-50%	0.117		P-value	0.333		
14.1C/14.1	2	6	34.17	17.35	6	21.67	9.35	-	+	0.570	6	34.17	17.35	6	21.67	9.35	-	+	0.570	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
14.2C/14.2	2	5	55.50	15.64	6	2.50	1.58	-	+	0.004	5	55.50	15.64	6	2.08	1.36	-	+	0.004	5	0.00	0.00	6	0.42	0.42	-	-	0.363	
62762C/50983	2	6	32.08	7.84	4	42.50	19.42	-	-	0.464	6	32.08	7.84	4	40.63	19.91	-	-	0.521	6	0.00	0.00	4	1.88	1.88	-	-	0.391	
Habitat Means			40.60	13.60		22.23	10.13		+			40.60	13.60		21.47	10.23		-			0.00	0.00		0.77	0.77		-		
Fisher's	Power		---		Power-50%	---		P-value	0.018		Power	---		Power-50%	---		P-value	0.016		Power	---		Power-50%	---		P-value	0.234		
Stouffer's	Power		0.337		Power-50%	0.646		P-value	0.379		Power	0.357		Power-50%	0.612		P-value	0.344		Power	---		Power-50%	---		P-value	0.148		
14.1C/14.1	3	5	23.50	15.56	6	1.67	0.83	-	-	0.312	5	23.50	15.56	6	1.25	0.85	-	-	0.271	5	0.00	0.00	6	0.42	0.42	-	-	0.363	
14.2C/14.2	3	2	6.25	6.25	5	6.00	2.57	-	+	0.839	2	6.25	6.25	5	6.00	2.57	-	+	0.839	2	0.00	0.00	5	0.00	0.00	-	o	1.000	
62762C/50983	3	5	20.00	17.61	5	70.50	8.19	-	-	0.028	5	20.00	17.61	5	70.50	8.19	-	-	0.028	5	0.00	0.00	5	0.00	0.00	-	o	1.000	
Habitat Means			16.60	13.17		26.07	3.87		+			16.60	13.17		25.93	3.90		+			0.00	0.00		0.13	0.13		-		
Fisher's	Power		0.085		Power-50%	0.251		P-value	0.483 <sub>xy</sub>		Power	0.068		Power-50%	0.260		P-value	0.450 <sub>xy</sub>		Power	---		Power-50%	---		P-value	0.403		
Stouffer's	Power		0.013		Power-50%	0.359		P-value	0.953		Power	0.011		Power-50%	0.366		P-value	0.950		Power	---		Power-50%	---		P-value	0.398		

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

Table C-5.381. Page 2. December 15, 1994

Table C-5.381. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Overstory removed August 1990. (Continued.)

Site Pair	Mvd	N	Fucus Stipes (P) (a)								Petalonia/Punctaria (AE) (b)								Morphological Group: Coarse Filamentous Browns									
			C	SE	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		o				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	1.25	1.25	6	0.00	0.00	-	+	0.363
14.2C/14.2	2	5	0.00	0.00	6	0.42	0.42	-	o	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
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		0.13	0.13	-				0.00	0.00		0.00		o			0.43	0.43		0.00	0.00		+		
Fisher's	Power		---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.403
Stouffer's	Power		---		Power-50%		---	P-value		0.398	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	0.42	0.42	-	o	0.363	5	0.50	0.50	6	1.25	1.25	-	-	0.810
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		o				0.00	0.00		0.13	0.13	-			0.17	0.17		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		0.599
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.398	Power	---		Power-50%		---	P-value		0.473

(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.

Table C-5.381. Page 3. December 15, 1994

Analipus japonicus (P)											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	
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	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	0.00	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	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			0.43	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	3	5	0.00	0.00	6	1.25	1.25	-	-	0.363	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	
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	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	1.50	1.50	-	-	0.374
Habitat Means			0.00	0.00		0.43	0.43		-			0.17	0.17		0.00	0.00		+			0.00	0.00		0.50	0.50		-		
Fisher's	Power		---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.409	Power	---		Power-50%		---	P-value		0.409	
Stouffer's	Power		---		Power-50%		---	P-value		0.398	Power	---		Power-50%		---	P-value		0.400	Power	---		Power-50%		---	P-value		0.208	

(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-5.381. Page 4. December 15, 1994

Table C-5.381. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Overstory removed August 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	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	0.00	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	1.50	1.50	-	-	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			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	0.409	Power	---		Power-50%		---		P-value	0.655	Power	---		Power-50%		---		P-value	0.655
Stouffer's	Power		---		Power-50%		---		P-value	0.202	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 &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.381. Page 5, December 15, 1994

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	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	0.00	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

(a) Genera not separated.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.381. Page 6, December 15, 1994

Table C-5.382. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Overstory removed 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. (AB)									
site Pair	Mvd	N	C	SE	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	1.50	1.00	5	17.50	11.18	-	-	0.133	5	0.00	0.00	5	2.50	2.50	-	-	0.374	5	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	45.00	16.11	5	4.50	2.78	-	+	0.032	6	37.92	16.75	5	1.50	1.00	-	+	0.069	6	0.83	0.83	5	0.00	0.00	0.00	-	-	0.363
62762C/50983	1	5	1.50	1.50	6	1.67	1.67	-	+	0.982	5	0.50	0.50	6	0.00	0.00	-	+	0.374	5	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
Habitat Means			16.00	6.20		7.90	5.23		-			12.80	5.77		1.33	1.17		+			0.27	0.27		0.00	0.00	0.00		-	
Fisher's																													
Stouffer's																													
			Power	0.047		Power-50%	0.480			0.333x		Power	0.104		Power-50%	0.016			0.105		Power	---		Power-50%	---			P-value	0.403
			Power	0.004		Power-50%	0.572			0.565		Power	0.071		Power-50%	0.028			0.140		Power	---		Power-50%	---			P-value	0.398
14.1C/14.1	2	6	28.33	8.31	6	32.50	6.19	-	-	0.556	6	1.25	0.85	6	10.83	4.46	-	-	0.044	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
14.2C/14.2	2	5	31.50	10.36	6	20.83	8.77	-	+	0.530	5	18.00	6.86	6	9.17	5.03	-	+	0.307	5	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
62762C/50983	2	6	23.33	10.87	4	0.63	0.63	-	+	0.098	6	2.92	1.36	4	0.00	0.00	-	+	0.078	6	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000
Habitat Means			27.70	9.87		17.97	5.20		+			7.40	3.07		6.67	3.17		+			0.00	0.00		0.00	0.00	0.00		o	
Fisher's																													
Stouffer's																													
			Power	0.453		Power-50%	0.670			0.156		Power	0.202		Power-50%	0.673			0.113x		Power	---		Power-50%	---			P-value	0.655
			Power	---		Power-50%	---			0.064		Power	---		Power-50%	---			0.092		Power	---		Power-50%	---			P-value	0.500
14.1C/14.1	3	5	31.00	14.29	6	55.83	8.75	-	-	0.130	5	6.00	3.02	6	27.08	6.24	-	-	0.054	5	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	78.75	1.25	5	27.50	12.07	-	+	0.065	2	43.75	26.23	5	14.50	8.42	-	+	0.194	2	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
62762C/50983	3	5	16.50	4.91	5	3.50	2.18	-	+	0.029	5	10.00	3.26	5	2.50	1.94	-	+	0.103	5	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
Habitat Means			42.10	6.83		28.93	7.70		+			19.93	10.87		14.70	5.50		+			0.00	0.00		0.00	0.00	0.00		o	
Fisher's																													
Stouffer's																													
			Power	---		Power-50%	---			0.017		Power	0.391		Power-50%	0.622			0.100x		Power	---		Power-50%	---			P-value	0.655
			Power	---		Power-50%	---			0.018		Power	---		Power-50%	---			0.095		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-5.382. Page 1. December 15, 1994

Gigartinales 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	2.50	2.50	-	-	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
14.2C/14.2	1	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
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			0.30	0.30		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%	---			0.305 y		Power	---		Power-50%	---			0.655		Power	---		Power-50%	---			0.655
Stouffer's			Power	---		Power-50%	---			0.206		Power	---		Power-50%	---			0.500		Power	---		Power-50%	---			0.500
14.1C/14.1	2	6	0.83	0.83	6	7.08	3.62	-	-	0.086	6	0.00	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	2.50	1.94	6	2.50	2.50	-	o	0.757	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
62762C/50983	2	6	0.83	0.83	4	0.00	0.00	-	+	0.363	6	2.08	1.36	4	0.00	0.00	-	+	0.178	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			1.37	1.17		3.20	2.03		-			1.03	0.80		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's			Power	0.045		Power-50%	0.129			0.266		Power	0.101		Power-50%	0.102			0.143		Power	---		Power-50%	---			0.655
Stouffer's			Power	0.022		Power-50%	0.280			0.667		Power	---		Power-50%	---			0.068		Power	---		Power-50%	---			0.500
14.1C/14.1	3	5	0.50	0.50	6	12.92	5.90	-	-	0.073	5	1.50	1.00	6	0.83	0.53	-	+	0.685	5	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	8.75	3.75	5	4.50	3.39	-	-	0.329	2	0.00	0.00	5	3.50	3.50	-	-	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	9.50	3.20	5	2.00	2.00	-	+	0.069	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			3.10	1.43		5.97	3.27		-			3.67	1.40		2.10	2.00		+			0.00	0.00		0.00	0.00		o	
Fisher's			Power	0.132		Power-50%	0.367			0.112		Power	0.285		Power-50%	0.316			0.159		Power	---		Power-50%	---			0.655
Stouffer's			Power	0.122		Power-50%	0.352			0.148		Power	---		Power-50%	---			0.064		Power	---		Power-50%	---			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-5.382. Page 2. December 15, 1994



Table C-5.382. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Overstory removed August 1990. (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	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	7.50	3.54	-	-	0.043	
14.2C/14.2	1	6	36.67	16.35	5	1.50	1.00	-	+	0.088	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	7.08	3.50	5	1.50	1.50	-	+	0.250	
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	1.00	1.00	6	1.67	1.67	-	-	0.908	
Habitat Means			12.23	5.47		0.50	0.33	+				0.00	0.00		0.00	0.00	o				2.87	1.67		3.57	2.23	-			
Fisher's			Power	0.041		Power-50%	0.004	P-value	0.172		Power	---		Power-50%	---	P-value	0.655		Power	0.184		Power-50%	0.266	P-value	0.145				
Stouffer's			Power	0.013		Power-50%	0.001	P-value	0.313		Power	---		Power-50%	---	P-value	0.500		Power	0.069		Power-50%	0.383	P-value	0.361				
14.1C/14.1	2	6	0.42	0.42	6	3.75	2.12	-	-	0.160	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	4.58	3.19	6	14.17	2.93	-	-	0.020	
14.2C/14.2	2	5	14.50	7.52	6	6.67	4.82	-	+	0.444	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	11.00	6.00	6	11.25	5.94	-	-	0.829	
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	14.17	11.27	4	0.63	0.63	-	-	0.304	
Habitat Means			4.97	2.63		3.50	2.30	-				0.00	0.00		0.00	0.00	o				9.93	6.83		8.70	3.13	-			
Fisher's			Power	0.016		Power-50%	0.078	P-value	0.327 y		Power	---		Power-50%	---	P-value	0.655		Power	---		Power-50%	---	P-value	0.079 y				
Stouffer's			Power	0.014		Power-50%	0.090	P-value	0.428		Power	---		Power-50%	---	P-value	0.500		Power	0.048		Power-50%	0.464	P-value	0.585				
14.1C/14.1	3	5	4.00	1.87	6	5.42	3.44	-	+	0.889	5	0.00	0.00	6	7.92	4.85	-	-	0.105	5	6.50	5.89	6	20.00	6.22	-	-	0.071	
14.2C/14.2	3	2	32.50	32.50	5	6.50	5.28	-	+	0.371	2	2.50	2.50	5	0.00	0.00	-	-	0.500	2	35.00	25.00	5	6.50	3.32	-	+	0.107	
62762C/50983	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	4.00	2.03	5	0.00	0.00	-	+	0.088	
Habitat Means			12.33	11.63		3.97	2.90	+				0.83	0.83		2.63	1.63	-				15.17	10.97		8.83	3.17	-			
Fisher's			Power	0.247		Power-50%	0.416	P-value	0.246		Power	0.010		Power-50%	---	P-value	0.249		Power	---		Power-50%	---	P-value	0.058x				
Stouffer's			Power	0.257		Power-50%	0.463	P-value	0.252		Power	0.001		Power-50%	---	P-value	0.394		Power	---		Power-50%	---	P-value	0.066				

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

Table C-5.382. Page 4. December 15, 1994

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	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	0.50	0.50	-	-	0.374	
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	6.25	3.08	5	1.50	1.50	-	-	0.267	
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	1.00	1.00	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			2.43	1.37		0.67	0.67		-		
Fisher's			Power	---		Power-50%	---	P-value	0.655		Power	---		Power-50%	---	P-value	0.655		Power	0.094		Power-50%	0.118	P-value	0.253				
Stouffer's			Power	---		Power-50%	---	P-value	0.500		Power	---		Power-50%	---	P-value	0.500		Power	0.065		Power-50%	0.148	P-value	0.190				
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	2.08	2.08	6	3.75	2.39	-	-	0.453	
14.2C/14.2	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	9.50	6.14	6	7.50	6.55	-	-	0.771	
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	0.00	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		0.57	0.57		+			3.87	2.73		3.77	3.00		-		
Fisher's			Power	---		Power-50%	---	P-value	0.655		Power	---		Power-50%	---	P-value	0.306	y	Power	0.016		Power-50%	0.081	P-value	0.502	y			
Stouffer's			Power	---		Power-50%	---	P-value	0.500		Power	---		Power-50%	---	P-value	0.204		Power	0.020		Power-50%	0.111	P-value	0.448				
14.1C/14.1	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	2.92	2.45	-	-	0.221	5	0.00	0.00	6	0.83	0.83	-	-	0.363	
14.2C/14.2	3	2	1.25	1.25	5	0.00	0.00	-	+	0.500	2	0.00	0.00	5	2.00	2.00	-	-	0.374	2	5.00	5.00	5	0.00	0.00	-	+	0.500	
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			0.43	0.43		0.00	0.00		+			0.00	0.00		1.63	1.50		-			1.67	1.67		0.27	0.27		-		
Fisher's			Power	---		Power-50%	---	P-value	0.476		Power	0.013		Power-50%	---	P-value	0.165		Power	---		Power-50%	---	P-value	0.497	y			
Stouffer's			Power	---		Power-50%	---	P-value	0.424		Power	0.029		Power-50%	---	P-value	0.273		Power	---		Power-50%	---	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.

Table C-5.382. Page 4. December 15, 1994

Table C-5.382. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Overstory removed 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	7.00	3.74	-	-	0.090	5	0.00	0.00	5	0.00	0.00	-	-	0	1.000	5	0.50	0.50	5	0.00	0.00	-	+	0.374
14.2C/14.2	1	6		0.83	0.83	5	0.00	0.00	-	+	0.363	6	0.00	0.00	5	0.00	0.00	-	+	0	1.000	6	0.00	0.00	5	0.00	0.00	-	-	1.000
62762C/50983	1	5		0.00	0.00	6	1.67	1.67	-	-	0.363	5	0.00	0.00	6	0.00	0.00	-	-	0	1.000	5	0.00	0.00	6	0.00	0.00	-	-	1.000
Habitat Means				0.27	0.27		2.90	1.80		-			0.00	0.00		0.00	0.00		-	0			0.17	0.17		0.00	0.00		-	
Fisher's	Power			0.112		Power-50%		---	P-value		0.124	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.409	
Stouffer's	Power			0.086		Power-50%		---	P-value		0.145	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.400	
14.1C/14.1	2	6		1.25	0.56	6	7.08	2.36	-	-	0.046	6	0.00	0.00	6	0.00	0.00	-	-	0	1.000	6	0.83	0.53	6	0.00	0.00	-	-	0.175
14.2C/14.2	2	5		1.00	0.61	6	3.75	1.68	-	-	0.236	5	0.00	0.00	6	0.00	0.00	-	-	0	1.000	5	0.00	0.00	6	0.00	0.00	-	-	1.000
62762C/50983	2	6		0.00	0.00	4	0.63	0.63	-	-	0.391	6	0.00	0.00	4	0.00	0.00	-	-	0	1.000	6	11.67	11.67	4	0.00	0.00	-	+	0.363
Habitat Means				0.77	0.40		3.83	1.57		-			0.00	0.00		0.00	0.00		-	0			4.17	4.07		0.00	0.00		+	
Fisher's	Power			---		Power-50%		---	P-value		0.020	Power	---		Power-50%		---	P-value		0.655	Power	0.151		Power-50%		0.137	P-value		0.139	
Stouffer's	Power			---		Power-50%		---	P-value		0.045	Power	---		Power-50%		---	P-value		0.500	Power	0.151		Power-50%		0.142	P-value		0.111	
14.1C/14.1	3	5		0.00	0.00	6	2.08	2.08	-	-	0.363	5	0.00	0.00	6	0.42	0.42	-	-	0	0.363	5	0.50	0.50	6	0.00	0.00	-	-	0.374
14.2C/14.2	3	2		0.00	0.00	5	1.00	1.00	-	-	0.374	2	0.00	0.00	5	0.00	0.00	-	-	0	1.000	2	0.00	0.00	5	0.00	0.00	-	-	1.000
62762C/50983	3	5		0.00	0.00	5	0.00	0.00	-	-	1.000	5	0.00	0.00	5	0.00	0.00	-	-	0	1.000	5	1.00	0.61	5	0.00	0.00	-	+	0.178
Habitat Means				0.00	0.00		1.03	1.03		-			0.00	0.00		0.13	0.13		-				0.50	0.37		0.00	0.00		+	
Fisher's	Power			---		Power-50%		---	P-value		0.227	Power	---		Power-50%		---	P-value		0.403	Power	0.141		Power-50%		0.116	P-value		0.144	
Stouffer's	Power			---		Power-50%		---	P-value		0.304	Power	---		Power-50%		---	P-value		0.398	Power	---		Power-50%		---	P-value		0.069	

(a) Genera not separated.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.382, Page 5, December 15, 1994

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	0.42	0.42	6	1.67	1.67	-	-	0.659	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				
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	2.08	1.36	4	0.00	0.00	-	+	0.178	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	4.58	3.06	4	0.00	0.00	-	+	0.180				
Habitat Means			0.83	0.60		0.57	0.57		+			0.00	0.00		0.00	0.00		o			1.53	1.03		0.27	0.27		+					
Fisher's	Power		0.040		Power-50%		0.096	P-value		0.318	Power	---		Power-50%		---	P-value		0.655	Power	0.008		Power-50%		0.016	P-value		0.360				
Stouffer's	Power		0.048		Power-50%		0.124	P-value		0.134	Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.001	P-value		0.167				
14.1C/14.1	3	5	5.50	4.90	6	7.08	6.60	-	-	0.979	5	0.50	0.50	6	6.67	3.86	-	-	0.197	5	2.00	1.22	6	1.67	0.83	-	+	0.997				
14.2C/14.2	3	2	28.75	28.75	5	1.50	1.50	-	-	0.188	2	0.00	0.00	5	2.00	2.00	-	-	0.374	2	0.00	0.00	5	0.50	0.50	-	-	0.374				
62762C/50983	3	5	2.50	1.58	5	0.00	0.00	-	+	0.181	5	0.50	0.50	5	0.00	0.00	-	+	0.374	5	1.50	1.00	5	1.00	1.00	-	+	0.644				
Habitat Means			12.27	11.77		2.87	2.70		+			0.33	0.33		2.90	1.97		-			1.17	0.73		1.07	0.77		-					
Fisher's	Power		---		Power-50%		---	P-value		0.092	Power	0.021		Power-50%		---	P-value		0.210	Power	0.027		Power-50%		0.177	P-value		0.667				
Stouffer's	Power		---		Power-50%		---	P-value		0.056	Power	0.021		Power-50%		---	P-value		0.576	Power	0.019		Power-50%		0.248	P-value		0.432				

(b) Genera not separated.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.382, Page 6, December 15, 1994

Table C-5.382. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Overstory removed 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	0.00	0.00	6	0.83	0.83	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.83	0.83	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	4.58	3.06	4	0.00	0.00	-	+	0.180	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	1.67	1.05	4	0.00	0.00	-	+	0.175				
Habitat Means			1.53	1.03		0.27	0.27		-			0.00	0.00		0.00	0.00		o			0.83	0.63		0.00	0.00		-					
Fisher's	Power		0.010		Power-50%		0.016	P-value	0.360		Power	---		Power-50%		---	P-value	0.655		Power	0.160		Power-50%		0.140	P-value	0.139					
Stouffer's	Power		0.000		Power-50%		0.001	P-value	0.167		Power	---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---	P-value	0.067					
14.1C/14.1	3	5	2.00	1.22	6	1.67	0.83	-	-	0.997	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	1.50	1.00	6	0.00	0.00	-	-	0.186				
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	3.00	3.00	-	-	0.374				
62762C/50983	3	5	1.50	1.00	5	1.00	1.00	-	-	0.644	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	1.00	0.61	5	0.00	0.00	-	-	0.178				
Habitat Means			1.17	0.73		1.07	0.77		-			0.00	0.00		0.00	0.00		o			0.83	0.53		1.00	1.00		-					
Fisher's	Power		0.029		Power-50%		0.219	P-value	0.667		Power	---		Power-50%		---	P-value	0.655		Power	0.186		Power-50%		0.209	P-value	0.125					
Stouffer's	Power		0.020		Power-50%		0.304	P-value	0.432		Power	---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---	P-value	0.087					

x At least one site pair p-value < 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table G-5.182, Page 7, December 15, 1994

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	1.00	1.00	5	7.50	7.50	-	-	0.551				
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	1.50	1.50	-	-	0.374				
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			0.33	0.33		3.00	3.00		-					
Fisher's	Power		---		Power-50%		---	P-value	0.655		Power	---		Power-50%		---	P-value	0.655		Power	---		Power-50%		---	P-value	0.292					
Stouffer's	Power		---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---	P-value	0.336					
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	21.67	9.35	6	6.67	4.17	-	-	0.220				
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	2.50	1.94	6	0.42	0.42	-	+	0.312				
62762C/50983	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	1.67	1.05	4	0.00	0.00	-	-	0.175	6	0.00	0.00	4	0.00	0.00	-	o	1.000				
Habitat Means			0.13	0.13		0.00	0.00		+			0.70	0.50		0.00	0.00		-			8.07	3.77		2.37	1.53		-					
Fisher's	Power		---		Power-50%		---	P-value	0.403		Power	0.161		Power-50%		0.132	P-value	0.139		Power	0.183		Power-50%		0.174	P-value	0.146					
Stouffer's	Power		---		Power-50%		---	P-value	0.398		Power	---		Power-50%		---	P-value	0.067		Power	0.238		Power-50%		0.223	P-value	0.262					
14.1C/14.1	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	1.50	1.00	6	0.00	0.00	-	+	0.186	5	15.00	10.75	6	7.08	4.54	-	+	0.445				
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	3.00	-	-	0.374	2	0.00	0.00	5	3.00	2.42	-	-	0.218				
62762C/50983	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	1.00	0.61	5	0.00	0.00	-	+	0.178	5	0.00	0.00	5	0.00	0.00	-	o	1.000				
Habitat Means			0.00	0.00		0.00	0.00		o			0.83	0.53		1.00	1.00		+			5.00	3.60		3.37	2.30		-					
Fisher's	Power		---		Power-50%		---	P-value	0.655		Power	0.195		Power-50%		0.212	P-value	0.125	y	Power	0.005		Power-50%		0.010	P-value	0.388					
Stouffer's	Power		---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---	P-value	0.087		Power	0.008		Power-50%		0.000	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.

Table C-5.382. Page 7. December 15, 1994

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	1.00	1.00	5	7.50	7.50	-	-	0.551				
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	1.50	1.50	-	-	0.374				
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			0.33	0.33		3.00	3.00		-					
Fisher's	Power		---		Power-50%		---	P-value	0.655		Power	---		Power-50%		---	P-value	0.655		Power	---		Power-50%		---	P-value	0.292					
Stouffer's	Power		---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---	P-value	0.336					
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	21.67	9.35	6	6.67	6.17	-	-	0.220				
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	2.50	1.94	6	0.42	0.42	-	+	0.312				
62762C/50983	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	1.67	1.05	4	0.00	0.00	-	-	0.175	6	0.00	0.00	4	0.00	0.00	-	o	1.000				
Habitat Means			0.13	0.13		0.00	0.00		+			0.70	0.50		0.00	0.00		+			8.07	3.77		2.37	1.53		-					
Fisher's	Power		---		Power-50%		---	P-value	0.403		Power	0.161		Power-50%		0.132	P-value	0.139		Power	0.183		Power-50%		0.174	P-value	0.146					
Stouffer's	Power		---		Power-50%		---	P-value	0.398		Power	---		Power-50%		---	P-value	0.067		Power	0.238		Power-50%		0.223	P-value	0.262					
14.1C/14.1	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	1.50	1.00	6	0.00	0.00	-	+	0.186	5	15.00	10.75	6	7.08	4.54	-	+	0.445				
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	3.00	-	-	0.374	2	0.00	0.00	5	3.00	2.42	-	-	0.218				
62762C/50983	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	1.00	0.61	5	0.00	0.00	-	+	0.178	5	0.00	0.00	5	0.00	0.00	-	o	1.000				
Habitat Means			0.00	0.00		0.00	0.00		o			0.83	0.53		1.00	1.00		+			5.00	3.60		3.37	2.30		-					
Fisher's	Power		---		Power-50%		---	P-value	0.655		Power	0.195		Power-50%		0.212	P-value	0.125		Power	0.005		Power-50%		0.010	P-value	0.388					
Stouffer's	Power		---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---	P-value	0.087		Power	0.008		Power-50%		0.000	P-value	0.447					

(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-5.382. Page 8. December 15, 1994

Table C-5.382. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai, Sheltered Rocky. June 1991. Overstory removed August 1990. (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	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	1.00	1.00	5	7.50	7.50	-	-	0.551	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	1.50	1.50	-	-	0.374	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			0.33	0.33		3.00	3.00		-			0.00	0.00		0.00	0.00		o	
Fisher's Stouffer's	Power		---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.292	Power	---		Power-50%	---	P-value			0.655
	Power		---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.336	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	21.67	9.35	6	6.67	4.17	-	+	0.220	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	2.00	2.00	6	0.42	0.42	-	+	0.574	5	0.50	0.50	6	0.00	0.00	-	+	0.374
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			7.90	3.80		2.37	1.53		+			0.17	0.17		0.00	0.00		+	
Fisher's Stouffer's	Power		---		Power-50%	---	P-value			0.655	Power	0.117		Power-50%		0.146	P-value		0.217	Power	---		Power-50%	---	P-value			0.409
	Power		---		Power-50%	---	P-value			0.500	Power	0.141		Power-50%		0.169	P-value		0.305	Power	---		Power-50%	---	P-value			0.400
14.1C/14.1	3	5	0.00	0.00	6	0.42	0.42	-	-	0.363	5	14.50	10.26	6	6.67	4.64	-	+	0.379	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	0.50	0.50	-	-	0.374	2	0.00	0.00	5	2.50	2.50	-	-	0.374
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		0.13	0.13		-			4.83	3.43		2.40	1.70		-			0.17	0.17		0.83	0.83		+	
Fisher's Stouffer's	Power		---		Power-50%	---	P-value			0.403	Power	0.001		Power-50%		0.018	P-value		0.523 y	Power	---		Power-50%	---	P-value			0.524 y
	Power		---		Power-50%	---	P-value			0.398	Power	0.004		Power-50%		0.002	P-value		0.499	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-5.382. Page 9. December 15, 1994

**Table C-5.383. Algal Percent Cover. Invertebrates. Cook Inlet/Kenai, Sheltered Rocky. June 1991. Overstory removed 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	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	9.50	7.76	5	13.00	9.70	-	-	0.836	5	0.00	0.00	5	0.00	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	12.92	11.93	5	14.00	6.83	-	-	0.740	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
62762C/50983	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	19.00	7.85	6	16.25	5.87	-	-	0.932	5	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			13.80	9.20		14.43	7.47	-			0.00	0.00		0.00	0.00	0.00		o		
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power	0.120		Power-50%		0.221	P-value		0.546	Power	---		Power-50%		---	P-value		0.655	
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	0.159		Power-50%		0.332	P-value		0.470	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	19.58	9.45	6	7.92	4.30	-	+	0.461	6	0.00	0.00	6	0.00	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	5.50	3.74	6	22.50	10.29	-	-	0.241	5	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	9.58	6.04	4	24.37	14.16	-	-	0.323	6	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000
Habitat Means			0.27	0.27		0.00	0.00		+			11.57	6.40		18.27	9.60	-			0.00	0.00		0.00	0.00	0.00		o		
Fisher's	Power		---		Power-50%		---	P-value		0.403	Power	0.309		Power-50%		0.376	P-value		0.210	Power	---		Power-50%		---	P-value		0.655	
Stouffer's	Power		---		Power-50%		---	P-value		0.398	Power	0.214		Power-50%		0.489	P-value		0.152	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	9.50	5.56	6	2.92	2.92	-	+	0.257	5	0.00	0.00	6	0.00	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	2.50	2.50	5	26.50	14.13	-	-	0.339	2	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
62762C/50983	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	22.30	16.66	5	8.00	5.56	-	+	0.543	5	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			11.50	8.27		12.47	7.53	+			0.00	0.00		0.00	0.00	0.00		o		
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power	0.045		Power-50%		0.224	P-value		0.313 y	Power	---		Power-50%		---	P-value		0.655	
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	0.033		Power-50%		0.293	P-value		0.272	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-5.383, Page 1, December 15, 1994

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	5	0.00	0.00	5	0.50	0.50	-	-	0.374	5	0.50	0.50	5	0.00	0.00	-	+	0.374	5	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	5	0.00	0.00	-	-	1.000	6	0.00	0.00	5	0.50	0.50	-	-	0.374	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
62762C/50983	1	5	0.50	0.50	6	0.00	0.00	-	+	0.374	5	2.50	1.58	6	0.00	0.00	-	-	0.181	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
Habitat Means			0.17	0.17		0.17	0.17		-			1.00	0.70		0.17	0.17		-			0.00	0.00		0.00	0.00	0.00	-	o	
Fisher's	Power		---		Power-50%	---	P-value		0.524 y	Power	0.074		Power-50%		0.096	P-value		0.199	Power	---		Power-50%	---	P-value		0.655			
Stouffer's	Power		---		Power-50%	---	P-value		0.712	Power	0.052		Power-50%		0.123	P-value		0.110	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	0.00	-	o	1.000
14.2C/14.2	2	5	0.00	0.00	6	0.42	0.42	-	-	0.363	5	3.50	3.50	6	0.42	0.42	-	+	0.490	5	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	3.75	3.75	4	11.25	10.43	-	-	0.446	6	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000
Habitat Means			0.13	0.13		0.13	0.13		+			2.43	2.43		3.90	3.60		-			0.00	0.00		0.00	0.00	0.00	-	o	
Fisher's	Power		---		Power-50%	---	P-value		0.519 y	Power	0.004		Power-50%		---	P-value		0.550	Power	---		Power-50%	---	P-value		0.655			
Stouffer's	Power		---		Power-50%	---	P-value		0.500	Power	0.005		Power-50%		---	P-value		0.309	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	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	1.00	1.00	-	-	0.374	2	0.00	0.00	5	0.00	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	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.17	0.17		-			0.00	0.00		0.33	0.33		-			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		0.409	Power	---		Power-50%	---	P-value		0.655			
Stouffer's	Power		---		Power-50%	---	P-value		0.400	Power	---		Power-50%		---	P-value		0.400	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-5.383, Page 2, December 15, 1994

Table C-5.383. Algal Percent Cover. Invertebrates. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Overstory removed August 1990. (Continued.)

Littorinidae											Porifera								Cnidaria									
Site Pair	Mvd	N	C	SE	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	0.50	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
14.2C/14.2	1	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	6	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	1	5	0.50	0.50	6	0.42	0.42	-	-	0.900	5	0.00	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			0.33	0.33		0.47	0.47		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%	---	P-value			0.498	Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.655
Stouffer's	Power		---		Power-50%	---	P-value			0.454	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	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
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		0.27	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			0.223	Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.655
Stouffer's	Power		---		Power-50%	---	P-value			0.302	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	2.50	2.50	5	2.00	2.00	-	+	0.710	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			0.83	0.83		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			0.564	Power	---		Power-50%	---	P-value			0.655
Stouffer's	Power		---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	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.

Table C 5.383, Page 3, December 15, 1994

Table C-5.384. Algal Percent Cover. Substrates. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Overstory removed 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	N	Rock							Oiled Rock							Mud											
			C	SE	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	68.00	18.45	5	33.50	10.62	-	-	0.132	5	0.00	0.00	5	1.50	1.50	-	-	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	20.00	15.23	5	69.50	12.85	-	-	0.032	6	0.00	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	43.00	17.79	6	74.58	10.15	-	-	0.207	5	0.00	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			43.67	17.17		59.20	11.23		-			0.00	0.00		0.50	0.50		-			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%	---	P-value		0.044	Power	---		Power-50%	---	P-value		0.409	Power	---		Power-50%	---	P-value		0.655			
Stouffer's	Power		---		Power-50%	---	P-value		0.091	Power	---		Power-50%	---	P-value		0.400	Power	---		Power-50%	---	P-value		0.500			
14.1C/14.1	2	6	14.58	7.26	6	36.25	10.60	-	-	0.138	6	0.00	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	4.00	2.03	6	50.42	14.10	-	-	0.027	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
62762C/50983	2	6	27.92	11.28	4	21.25	9.21	-	+	0.559	6	0.00	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			15.50	6.87		36.00	11.30		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.13	0.13		-	
Fisher's	Power		---		Power-50%	---	P-value		0.023	Power	---		Power-50%	---	P-value		0.655	Power	---		Power-50%	---	P-value		0.403			
Stouffer's	Power		0.670		Power-50%	0.735	P-value		0.301	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.398			
14.1C/14.1	3	5	13.00	11.76	6	2.92	1.98	-	+	0.453	5	0.00	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	1.25	1.25	5	26.00	13.93	-	-	0.250	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	15.00	6.47	5	14.00	8.57	-	-	0.910	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			9.77	6.53		14.30	8.17		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		0.025		Power-50%	0.238	P-value		0.568	Power	---		Power-50%	---	P-value		0.655	Power	---		Power-50%	---	P-value		0.655			
Stouffer's	Power		0.005		Power-50%	0.309	P-value		0.505	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-5.384. Page 1. December 15, 1994

ite	Pair	N	Sand								Shell Fragments								Filamentous Diatoms									
			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
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	0.00		o			0.00	0.00	0.00	0.00	0.00		o			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	0.655	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	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	0.00		o			0.00	0.00	0.00	0.00	0.00		o			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	0.655	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	0.00		o			0.00	0.00	0.00	0.00	0.00		o			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	0.655	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-5.384. Page 2. December 15, 1994

Table C-5.384. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Overstory removed August 1990. (Continued.)

Site Pair	Mvd	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	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	68.00	18.45	5	35.00	11.94	-	+	0.154										
14.2C/14.2	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	20.00	15.23	5	69.50	12.85	-	-	0.032										
62762C/50983	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	43.00	17.79	6	74.58	10.15	-	-	0.207										
Habitat Means			0.00	0.00		0.00	0.00		o			43.67	17.17		59.70	11.67		-											
Fisher's	Power		---		Power-50%		---	P-value	0.655		Power	---		Power-50%		---	P-value	0.044		Power	---		Power-50%		---	P-value			
Stouffer's	Power		---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---	P-value	0.087		Power	---		Power-50%		---	P-value			
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	14.58	7.26	6	36.25	10.60	-	-	0.138										
14.2C/14.2	2	5	0.00	0.00	6	0.42	0.42	-	-	0.363	5	4.00	2.03	6	50.83	14.05	-	-	0.026										
62762C/50983	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	27.92	11.28	4	21.25	9.21	-	+	0.559										
Habitat Means			0.00	0.00		0.13	0.13		-			15.50	6.87		36.13	11.30		-											
Fisher's	Power		---		Power-50%		---	P-value	0.403		Power	---		Power-50%		---	P-value	0.023		Power	---		Power-50%		---	P-value			
Stouffer's	Power		---		Power-50%		---	P-value	0.398		Power	0.667		Power-50%		0.742	P-value	0.300		Power	---		Power-50%		---	P-value			
14.1C/14.1	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	13.00	11.76	6	2.92	1.98	-	+	0.453										
14.2C/14.2	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	1.25	1.25	5	26.00	13.93	-	-	0.250										
62762C/50983	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	15.00	6.47	5	14.00	8.57	-	-	0.910										
Habitat Means			0.00	0.00		0.00	0.00		o			9.77	6.53		14.30	8.17		-											
Fisher's	Power		---		Power-50%		---	P-value	0.655		Power	0.025		Power-50%		0.233	P-value	0.568	y	Power	---		Power-50%		---	P-value			
Stouffer's	Power		---		Power-50%		---	P-value	0.500		Power	0.006		Power-50%		0.306	P-value	0.505		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-5.384. Page 1. December 15, 1994



Table C-5.385. Algal Percent Cover, Totals and Seasonal Groups, Cook Inlet/Kenai, Coarse Textured, May 1991. Overstory removed 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	1.25	1.25	-	---	---		
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		0.63	0.65					
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		---		
50389C/50389	3	1	0.00	--	4	0.07	0.07	-	--	---	1	0.00	--	4	0.75	0.48	-	--	---	1	0.00	--	4	5.63	4.83	-	--	---		
51091C/51091	3	1	0.00	--	0	--	--	--	--	---	1	0.00	--	0	--	--	--	--	---	1	0.00	--	0	--	--	--	--	---		
62802C/50226	3	3	0.03	0.03	4	0.15	0.15	-	--	0.548	3	1.00	0.58	4	1.00	1.00	-	o	1.000	3	25.83	12.94	4	17.50	17.50	-	+	0.590		
Habitat Means			0.01	0.03		0.11	0.11		--			0.33	0.58		0.88	0.74		o			8.60	12.90		11.55	11.15		+			
Fisher's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	yz	
Stouffer's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	yz	

(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.

Table C 5.385, Page 1, December 15, 1994

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	2	8.75	8.75	4	4.37	4.37	-	+	0.633	2	91.25	8.75	4	95.63	4.38	-	-	0.633	2	0.00	0.00	4	0.00	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	5.00	5.00	-	-	0.423	2	100.00	0.00	3	95.00	5.00	-	+	0.423	2	0.00	0.00	3	0.00	0.00	0.00	-	o	1.000
Habitat Means			2.93	4.40		4.70	4.70		-			97.10	4.40		95.30	4.70		+			0.00	0.00		0.00	0.00		o		
Fisher's	Power		---		Power-50%		---	P-value		0.424	Power	---		Power-50%		---	P-value		0.424	Power	---		Power-50%		---	P-value		0.597	
Stouffer's	Power		---		Power-50%		---	P-value		0.385	Power	---		Power-50%		---	P-value		0.385	Power	---		Power-50%		---	P-value		0.500	
50389C/50389	2	0	--	--	4	1.25	1.25	-	---	---	2	--	--	4	97.50	1.44	-	---	---	0	--	--	4	1.25	1.25	-	---	---	
51091C/51091	2	2	0.00	0.00	0	--	--	---	---	---	2	83.75	11.25	0	--	--	---	---	---	2	0.00	0.00	0	--	--	---	---	---	
62802C/50226	2	0	--	--	3	0.83	0.83	-	---	---	0	--	--	3	99.17	0.83	-	---	---	0	--	--	3	0.00	0.00	-	---	---	
Habitat Means			0.00	0.00		1.05	1.05					83.80	11.30		98.35	1.10					0.00	0.00		0.65	0.65				
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		---	
50389C/50389	3	1	0.00	--	4	0.63	0.63	-	---	---	1	100.00	--	4	93.75	5.45	-	---	---	1	0.00	--	4	0.63	0.63	-	---	---	
51091C/51091	3	1	0.00	--	0	--	--	---	---	---	1	100.00	--	0	--	--	---	---	---	1	0.00	--	0	--	--	---	---	---	
62802C/50226	3	3	19.17	2.20	4	5.00	4.21	-	+	0.056	3	52.50	16.65	4	77.50	17.17	-	-	0.284	3	25.00	12.50	4	3.75	3.75	-	+	0.180	
Habitat Means			6.40	2.20		2.80	2.40		+			84.17	16.70		85.65	11.35		-			8.33	12.50		2.20	2.20		+		
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		---	

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

Table C 5.385, Page 2, December 15, 1994

Table C-5.385. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Coarse Textured. May 1991. Overstory removed July 1990. (Continued.)

Annuals (A)												Ephemerals (AE)																		
Site	Pair	Method	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	
50389C/50389	1	2	0.00	0.00	0	0.00	0.00	0	---	1.000	1	0.00	0.00	0	0.00	0.00	0	---	1.000											
51091C/51091	1	1	0.00	0.00	0	0.00	0.00	0	---	1.000	1	0.00	0.00	0	0.00	0.00	0	---	1.000											
62802C/50226	1	2	0.00	0.00	3	0.00	0.00	0	---	1.000	2	0.00	0.00	3	0.00	0.00	0	---	1.000											
Habitat Means			0.00	0.00		0.00	0.00	0	---			0.00	0.00		0.00	0.00	0	---												
Fisher's	Power	---				Power-50%	---	P-value	0.597	Power	---				Power-50%	---	P-value	0.597	Power	---										
Stouffer's	Power	---				Power-50%	---	P-value	0.500	Power	---				Power-50%	---	P-value	0.500	Power	---										
50389C/50389	2	0	--	--	4	0.00	0.00	-	---	0	--	4	0.00	0.00	0	--	4	0.00	-	---										
51091C/51091	2	2	0.00	0.00	0	--	--	-	---	2	0.00	0.00	0	--	0	--	0	--	-	---										
62802C/50226	2	0	--	--	3	0.00	0.00	-	---	0	--	3	0.00	0.00	0	--	3	0.00	-	---										
Habitat Means			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	---										
Stouffer's	Power	---				Power-50%	---	P-value	---	Power	---				Power-50%	---	P-value	---	Power	---										
50389C/50389	3	1	0.00	--	4	5.00	5.00	-	---	1	0.00	--	4	0.00	0.00	-	0	---	---	---										
51091C/51091	3	1	0.00	--	0	--	--	-	---	1	0.00	--	0	--	--	-	0	---	---	---										
62802C/50226	3	3	0.83	0.83	4	13.75	13.75	-	0.562	3	0.83	0.83	4	10.00	10.00	-	0.593													
Habitat Means			0.27	0.80		9.40	9.40	-			0.27	0.80		5.00	5.00	-														
Fisher's	Power	---				Power-50%	---	P-value	---	Power	---				Power-50%	---	P-value	---	Power	---										
Stouffer's	Power	---				Power-50%	---	P-value	---	Power	---				Power-50%	---	P-value	---	Power	---										

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

Table C-5.385. Page 1. December 15, 1994

**Table C-5.386. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai, Coarse Textured. May 1991. Overstory removed 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	
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		0.83	0.83	4	4.37	4.37	-	-	0.701	3	0.83	0.83	4	4.37	4.37	-	-	0.701	3	0.83	0.83	4	4.37	4.37	-	-	0.701	
Habitat Means			0.27	0.80		2.20	2.20		-			0.27	0.80		2.20	2.20		-			0.27	0.80		2.20	2.20		-		
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	---		

(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.

Table C-5.386. Page 1. December 15, 1994

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	1	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	1	0.00	--	0	--	--	-	---	---	1	0.00	--	0	--	--	-	---	---	1	0.00	--	0	--	--	-	---	---	
62802C/50226 1	2	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	2	--	--	4	0.00	0.00	-	---	---	0	--	--	4	0.00	0.00	-	---	---	0	--	--	4	0.00	0.00	-	---	---	
51091C/51091 2	2	2	0.00	0.00	0	--	--	-	---	---	2	0.00	0.00	0	--	--	-	---	---	2	0.00	0.00	0	--	--	-	---	---	
62802C/50226 2	0	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	3	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	1	0.00	--	0	--	--	-	---	---	1	0.00	--	0	--	--	-	---	---	1	0.00	--	0	--	--	-	---	---	
62802C/50226 3	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	---		Power	---		Power-50%		---	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-5.386. Page 2. December 15, 1994

Table C-5.386. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Coarse Textured. May 1991. Overstory removed 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	0.00	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		---		Power	---		Power-50%	---	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.

\* At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.387. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai, Coarse Textured. May 1991. Overstory removed 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	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	--	--	--	-	o	---	1	0.00	--	0	--	--	--	-	o	---	1	0.00	--	0	--	--	--	-	o	---
62802C/50226 1	2	0.00	0.00	3	0.00	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	0.00		o			0.00	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	1.25	1.25	-	---		---	0	--	--	4	1.25	1.25	-	---		---	0	--	--	4	1.25	1.25	-	---		
51091C/51091 2	2	0.00	0.00	0	--	--	--	-	o	---	2	0.00	0.00	0	--	--	--	-	o	---	2	0.00	0.00	0	--	--	--	-	o	---
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		0.65	0.65					0.00	0.00		0.65	0.65					
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	---			
50389C/50389 3	1	0.00	--	4	0.63	0.63	-	---		---	1	0.00	--	4	0.63	0.63	-	---		---	1	0.00	--	4	0.63	0.63	-	---		
51091C/51091 3	1	0.00	--	0	--	--	--	-	o	---	1	0.00	--	0	--	--	--	-	o	---	1	0.00	--	0	--	--	--	-	o	---
62802C/50226 3	3	25.00	12.50	4	9.38	9.38	-		0.352		3	25.00	12.50	4	9.38	9.38	-		0.180		3	25.00	12.50	4	9.38	9.38	-		0.180	
Habitat Means		8.33	12.50		5.00	5.00	+					8.33	12.50		2.20	2.20	+				8.33	12.50		2.20	2.20	+				
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	---			

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

Table C-5.387. Page 1, December 15, 1994

Adult <i>Fucus gardneri</i> (P) (> 2cm)											Juvenile <i>Fucus gardneri</i> (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	--	--	--	-	o	---	1	0.00	--	0	--	--	--	-	o	---	1	0.00	--	0	--	--	--	-	o	---		
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	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	--	--	--	-	o	---	2	0.00	0.00	0	--	--	--	-	o	---	2	0.00	0.00	0	--	--	--	-	o	---		
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	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	0.63	0.63	-	---		---	1	0.00	--	4	0.00	0.00	-	---		---	1	0.00	--	4	0.00	0.00	-	---				
51091C/51091 3	1	0.00	--	0	--	--	--	-	o	---	1	0.00	--	0	--	--	--	-	o	---	1	0.00	--	0	--	--	--	-	o	---		
62802C/50226 3	3	25.00	12.50	4	3.75	3.75	-		0.180		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		8.33	12.50		2.20	2.20	-				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	---				Power	---		Power-50%	---	P-value	---				Power	---		Power-50%	---	P-value	---					
Stouffer's	Power	---		Power-50%	---	P-value	---				Power	---		Power-50%	---	P-value	---				Power	---		Power-50%	---	P-value	---					

Table C-5.387. Algal Percent Cover. Phaeophyta. Cook Inlet/Kensi. Coarse Textured. May 1991. Overstory removed July 1990. (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	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		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	5.62	5.63	-	o	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		2.80	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	---					

(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-5.387, Page 3, December 15, 1994

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	1	0.00	---	0	---	---	-	---	---																						
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	5.62	5.63	-	o	0.391																						
Habitat Means			0.00	0.00		2.80	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	---				

(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-5.387, Page 4, December 15, 1994

Table C-5.388. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Coarse Textured. May 1991. Overstory removed 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											Gigartineae 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	5.00	5.00	-	---	---	1	0.00	--	4	5.00	5.00	-	---	---	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	3.75	3.75	-	-	0.391	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		4.40	4.40		-			0.00	0.00		4.40	4.40		-			0.00	0.00		0.00	0.00		o					
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, Macrocarpus 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-5.388. Page 1. December 15, 1994

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	3.13	3.13	-	---	---	1	0.00	--	4	1.88	1.88	-	---	---	---	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	3.75	3.75	-	-	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				
Habitat Means			0.00	0.00		3.45	3.45		-			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	---		Power	---		Power-50%		---	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-5.388. Page 2. December 15, 1994

Table C-5.388. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Coarse Textured. May 1991. Overstory removed July 1990. (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	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	---	Power	---		Power-50%	---		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-5.388. Page 3. December 15, 1994

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	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		---	Power	---		Power-50%		---	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-5.388. Page 4. December 15, 1994



Table C-5.388. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Coarse Textured. May 1991. Overstory removed July 1990. (Continued.)

Site Pair	Mvd	Morphological Group: Crustose Reds								Hildenbrandia sp. (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	0.00	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		---	Power	---		Power-50%	---	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-5.389. Algal Percent Cover. Invertebrates. Cook Inlet/Kenai. Coarse Textured. May 1991. Overstory removed 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		8.75	8.75	4	4.37	4.37	-	+	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
51091C/51091	1	-		0.00	--	0	--	--	-	-	---	-	0.00	--	0	--	--	-	-	---	1	0.00	--	0	--	--	-	-	---
62802C/50226	1	2		0.00	0.00	3	5.00	5.00	-	-	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				2.93	4.40		4.70	4.70		-			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		0.424	Power		---	Power-50%		---	P-value		0.597	Power		---	Power-50%		---	P-value		0.597
Stouffer's		Power		---		Power-50%		---	P-value		0.385	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	0.83	0.83	-	--	---	0	--	--	3	0.00	0.00	-	--	---	0	--	--	3	0.00	0.00	-	--	---
Habitat Means				0.00	0.00		1.05	1.05		--			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	0.63	0.63	-	--	---	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	--	--	-	o	---	1	0.00	--	0	--	--	-	o	---
62802C/50226	3	3		18.33	1.67	4	3.75	2.98	-	+	0.029	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.83	0.83	4	1.25	1.25	-	+	0.967
Habitat Means				6.10	1.70		2.20	1.80		+			0.00	0.00		0.00	0.00		o			0.27	0.80		0.65	0.65		-	
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.

Table C 5.389. Page 1. December 15, 1994

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	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		---		Power	---		Power-50%	---	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 5.389. Page 2. December 15, 1994

**Table C-5.390. Algal Percent Cover. Substrates. Cook Inlet/Kensai, Coarse Textured, May 1991. Overstory removed 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.

Site Pair	Mvd	Rock								Mud								Sand									
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P								
50389C/50389 1	2	91.25	8.75	4	95.63	4.38	-	-	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
51091C/51091 1	1	100.00	--	0	--	--	--	--	---	1	0.00	--	0	--	--	--	--	---	1	0.00	--	0	--	--	--	--	---
62802C/50226 1	2	100.00	0.00	3	95.00	5.00	-	+	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		97.10	4.40		95.30	4.70					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 0.424	Power	---			Power-50%	---			P-value 0.597	Power	---			Power-50%	---			P-value 0.597
Stouffer's	Power	---			Power-50%	---			P-value 0.385	Power	---			Power-50%	---			P-value 0.500	Power	---			Power-50%	---			P-value 0.500
50389C/50389 2	0	--	--	4	97.50	1.44	-	--	---	0	--	--	4	0.00	0.00	-	--	---	0	--	--	4	0.00	0.00	-	--	---
51091C/51091 2	2	83.75	11.25	0	--	--	--	--	---	2	0.00	0.00	0	--	--	--	--	---	2	16.25	11.25	0	--	--	--	--	---
62802C/50226 2	0	--	--	3	99.17	0.83	-	--	---	0	--	--	3	0.00	0.00	-	--	---	0	--	--	3	0.00	0.00	-	--	---
Habitat Means		83.80	11.30		98.35	1.10					0.00	0.00		0.00	0.00					16.30	11.30		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	93.75	5.45	-	+	---	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	52.50	16.65	4	77.50	17.17	-	-	0.284	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
Habitat Means		84.17	16.70		85.65	11.35					0.00	0.00		0.00	0.00		o			0.83	2.50		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 ---

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

Table C-5.390. Page 1. December 15, 1994

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	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%	---		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%	---		Power-50%	---		P-value	0.500	
50389C/50389	2	0	--	--	4	0.00	0.00	-	---	0	--	--	4	0.00	0.00	-	---	0	---	0	--	--	4	0.00	0.00	-	---	---	
51091C/51091	2	2	0.00	0.00	0	--	--	--	---	2	0.00	0.00	0	--	--	--	---	2	16.25	11.25	0	--	--	0	--	--	---		
62802C/50226	2	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	0	--	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				16.30	11.30		0.00	0.00					
Fisher's	Power		---		Power-50%	---		P-value	---	Power	---		Power-50%	---		P-value	---	Power	---		Power-50%	---		Power-50%	---		P-value	---	
Stouffer's	Power		---		Power-50%	---		P-value	---	Power	---		Power-50%	---		P-value	---	Power	---		Power-50%	---		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	--	--	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	2.50	2.50	4	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			0.83	2.50		0.00	0.00		-		
Fisher's	Power		---		Power-50%	---		P-value	---	Power	---		Power-50%	---		P-value	---	Power	---		Power-50%	---		Power-50%	---		P-value	---	
Stouffer's	Power		---		Power-50%	---		P-value	---	Power	---		Power-50%	---		P-value	---	Power	---		Power-50%	---		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-5.390. Page 2. December 15, 1994

Table C-5.390. Algal Percent Cover. Substrates. Cook Inlet/Kenai. Coarse Textured. May 1991. Overstory removed July 1990. (Continued.)

Site Pair	Mvd	N	Total Substrate																									
			C	SE	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	91.25	8.75	4	95.63	4.38	-	-	0.633																		
51091C/51091	1	1	100.00	--	0	--	--	-	-	--																		
62802C/50226	1	2	100.00	0.00	3	95.00	5.00	-	+	0.423																		
Habitat Means			97.10	4.40		95.30	4.70		+																			
Fisher's	Power		---		Power-50%		---	P-value		0.424	Power	---		Power-50%		---	P-value			Power	---			Power-50%		---	P-value	
Stouffer's	Power		---		Power-50%		---	P-value		0.385	Power	---		Power-50%		---	P-value			Power	---			Power-50%		---	P-value	
50389C/50389	2	0	--	--	4	97.50	1.44	-	--																			
51091C/51091	2	2	100.00	0.00	0	--	--	-	--																			
62802C/50226	2	0	--	--	3	99.17	0.83	-	--																			
Habitat Means			100.00	0.00		98.35	1.10																					
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	
50389C/50389	3	1	100.00	--	4	93.75	5.45	-	+	---																		
51091C/51091	3	1	100.00	--	0	--	--	-	--																			
62802C/50226	3	3	55.00	15.07	4	77.50	17.17	-	-	0.306																		
Habitat Means			85.00	15.10		85.65	11.35		-																			
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-5.390. Page 3. December 15, 1994

Table C-5.391. Algal Percent Cover, Totals and Seasonal Groups, Cook Inlet/Kenai, Coarse Textured, June 1991, Overstory removed 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	0.00	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	0.33	0.33	2	0.00	0.00	-	-	0.423	3	0.83	0.83	2	0.00	0.00	-	+	0.423				
Habitat Means			0.00	0.00		0.00	0.00		o			0.11	0.33		0.00	0.00		-			0.27	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		---				
50389C/50389	3	3	0.00	0.00	4	0.13	0.13	-	-	0.391	3	0.33	0.33	4	1.25	1.25	-	-	0.569	3	6.67	6.67	4	13.75	13.75	-	-	0.853				
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	0.11	0.07	-	-	---	1	0.00	--	4	1.00	0.58	-	-	---	1	0.00	--	4	27.50	16.39	-	-	---				
Habitat Means			0.00	0.00		0.12	0.10		-			0.11	0.17		1.13	0.91		-			2.23	3.35		20.65	15.10		-					
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		---				

(a) Modified Shannon Index.

(b) Taxa richness calculations are explained in the methods.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.391, Page 1, December 13, 1994

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	N	C	SE	CV	D	P		
50389C/50389	1	2	1.25	1.25	5	0.50	0.50	-	+	0.513	2	98.75	1.25	5	99.50	0.50	-	-	0.513	2	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000							
51091C/51091	1	1	0.00	--	0	--	--	-	---	---	1	100.00	--	0	--	--	-	---	---	1	0.00	--	0	--	--	-	---	---	1	0.00	--	0	--	--	---	
62802C/50226	1	4	0.00	0.00	4	2.50	2.50	-	-	0.391	4	84.38	15.63	4	97.50	2.50	-	-	0.564	4	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000							
Habitat Means			0.43	0.65		1.50	1.50		-			94.40	8.45		98.50	1.50		-			0.00	0.00		0.00	0.00		o				0.00	0.00		o		
Fisher's	Power		---		Power-50%		---	P-value		0.426	Power	0.205		Power-50%		0.945	P-value		0.263	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value	0.597
Stouffer's	Power		---		Power-50%		---	P-value		0.414	Power	0.195		Power-50%		0.963	P-value		0.194	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value	0.500
50389C/50389	2	1	0.00	--	5	2.50	1.94	-	-	---	1	100.00	--	5	83.50	13.50	-	+	---	1	0.00	--	5	0.00	0.00	0.00	-	o	---							
51091C/51091	2	1	0.00	--	0	--	--	-	---	---	1	100.00	--	0	--	--	-	---	---	1	0.00	--	0	--	--	-	---	---	1	0.00	--	0	--	--	---	
62802C/50226	2	3	2.50	1.44	2	0.00	0.00	-	+	0.196	3	95.83	2.20	2	100.00	0.00	-	-	0.188	3	0.83	0.83	2	0.00	0.00	0.00	-	-	0.423							
Habitat Means			0.83	1.40		1.25	0.95		+			98.60	2.20		91.75	6.75		-			0.27	0.80		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		---	Power	---		Power-50%		---	P-value	---
Stouffer's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value	---
50389C/50389	3	3	12.50	10.10	4	5.63	2.37	-	+	0.759	3	80.83	16.73	4	75.63	18.69	-	+	0.774	3	6.67	6.67	4	7.50	7.50	-	-	0.966								
51091C/51091	3	5	0.00	0.00	0	--	--	-	---	---	5	100.00	0.00	0	--	--	-	---	---	5	0.00	0.00	0	--	--	-	---	---	5	0.00	0.00	0	--	--	---	
62802C/50226	3	1	0.00	--	4	5.62	2.58	-	-	---	1	35.00	--	4	66.87	16.25	-	-	---	1	0.00	--	4	20.62	13.63	-	-	---								
Habitat Means			4.17	5.05		5.60	2.50		-			71.93	8.35		71.25	17.50		+			2.23	3.35		14.05	10.55		-						-			
Fisher's	Power		---		Power-50%		---	P-value		---	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		---	Power	---		Power-50%		---	P-value	---

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.391, Page 2, December 13, 1994

Table C-5.391. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Coarse Textured. June 1991. Overstory removed 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	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	---	Power	---		Power-50%		---	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	6.25	6.25	-	-	0.391	3	0.00	0.00	4	3.13	3.13	-	-	0.391										
51091C/51091	3	5	0.00	0.00	0	--	--	-	--	---	5	0.00	0.00	0	--	--	-	--	---										
62802C/50226	3	1	0.00	--	4	6.88	4.72	-	-	---	1	0.00	--	4	5.00	5.00	-	-	---										
Habitat Means			0.00	0.00		6.60	5.50		-			0.00	0.00		4.05	4.05		-											
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-5.392. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Coarse Textured. June 1991. Overstory removed 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				
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%	---		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%	---		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	---	Power	---		Power-50%	---		P-value	---	Power	---		Power-50%	---		Power-50%	---		P-value	---			
Stouffer's			Power	---		Power-50%	---		P-value	---	Power	---		Power-50%	---		P-value	---	Power	---		Power-50%	---		Power-50%	---		P-value	---			
50389C/50389	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	0.00	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		2.25	1.25	-	-			0.00	0.00		0.00	0.00	-	o			0.00	0.00		0.00	0.00	-	o					
Fisher's			Power	---		Power-50%	---		P-value	---	Power	---		Power-50%	---		P-value	---	Power	---		Power-50%	---		Power-50%	---		P-value	---			
Stouffer's			Power	---		Power-50%	---		P-value	---	Power	---		Power-50%	---		P-value	---	Power	---		Power-50%	---		Power-50%	---		P-value	---			

(a) Kormannia, Mucostroma, 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.

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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	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%	---		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%	---		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	---	Power	---		Power-50%	---		P-value	---	Power	---		Power-50%	---		Power-50%	---		P-value	---
Stouffer's			Power	---		Power-50%	---		P-value	---	Power	---		Power-50%	---		P-value	---	Power	---		Power-50%	---		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	---	Power	---		Power-50%	---		P-value	---	Power	---		Power-50%	---		Power-50%	---		P-value	---
Stouffer's			Power	---		Power-50%	---		P-value	---	Power	---		Power-50%	---		P-value	---	Power	---		Power-50%	---		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-5.392, Page 2, December 15, 1994

Table C-5.392. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Coarse Textured. June 1991. Overstory removed 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		---	z	Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value							
50389C/50389	3	3	0.00	0.00	4	2.50	2.50	-	-	0.391	3	0.00	0.00	4	2.50	2.50	-	-	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		1.25	1.25		-			0.00	0.00		1.25	1.25		-														
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		---	z	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 5.392. Page 3. December 15, 1994



Table C-5.393. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Coarse Textured. June 1991. Overstory removed 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 (F)											
Site	Pair	Mvd	N	C	SE	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		Power	
Stouffer's	Power		---		Power-50%	---	P-value		0.500		Power	---		Power-50%	---	P-value		0.500		Power	---		Power-50%	---	P-value		0.500		Power	
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	0.83	0.83	2	0.00	0.00	-	+	0.423	3	0.83	0.83	2	0.00	0.00	-	+	0.423	3	0.83	0.83	2	0.00	0.00	-	+	0.423		
Habitat Means			0.27	0.80		0.00	0.00		+			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		---	z	Power	---		Power-50%	---	P-value		---	z	Power	
Stouffer's	Power		---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z	Power	
50389C/50389	3	3	6.67	6.67	4	8.75	8.75	-	-	0.988	3	6.67	6.67	4	7.50	7.50	-	-	0.966	3	6.67	6.67	4	7.50	7.50	-	-	0.966		
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	25.62	15.01	-	-	---	1	0.00	--	4	20.62	13.63	-	-	---	1	0.00	--	4	20.62	13.63	-	-	---		
Habitat Means			2.23	3.35		17.20	11.90		-			2.23	3.35		14.05	10.55		-			2.23	3.35		14.05	10.55		-			
Fisher's	Power		---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z	Power	
Stouffer's	Power		---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z	Power	

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

Table C-5.393. Page 1. December 15, 1994

Adult <i>Fucus gardneri</i> (P) (> 2cm)											Juvenile <i>Fucus gardneri</i> (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	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	0.83	0.83	2	0.00	0.00	-	+	0.423	3	0.00	0.00	2	0.00	0.00	-	+	0.423	3	0.00	0.00	2	0.00	0.00	-	+	0.423				
Habitat Means			0.27	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		---	z	Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z				
Stouffer's	Power		---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z				
50389C/50389	3	3	6.67	6.67	4	7.50	7.50	-	-	0.966	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	20.00	13.58	-	-	---	1	0.00	--	4	0.63	0.63	-	-	---	1	0.00	--	4	0.00	0.00	-	o	---				
Habitat Means			2.23	3.35		13.75	10.55		-			0.00	0.00		0.30	0.30		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		---	z	Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z				

(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-5.393. Page 2. December 15, 1994

Table C-5.393. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Coarse Textured. June 1991. Overstory removed August 1990. (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	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	0.00	0	0.00	0.00	-	o	1.000	1	0.00	0.00	0	0.00	0.00	-	o	1.000	1	0.00	0.00	0	0.00	0.00	-	o	1.000		
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	0.00	5	0.00	0.00	-	o	1.000	1	0.00	0.00	5	0.00	0.00	-	o	1.000	1	0.00	0.00	5	0.00	0.00	-	o	1.000		
51091C/51091	2	1	0.00	0.00	0	0.00	0.00	-	o	1.000	1	0.00	0.00	0	0.00	0.00	-	o	1.000	1	0.00	0.00	0	0.00	0.00	-	o	1.000		
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	---		Power-50%	---	P-value		z	Power	---
Stouffer's	Power		---		Power-50%	---	P-value		---	Power	---		Power-50%	---	P-value		---	Power	---		Power	---		Power-50%	---	P-value		---	Power	---
50389C/50389	3	3	0.00	0.00	4	0.63	0.63	-	-	0.391	3	0.00	0.00	4	0.63	0.63	-	-	0.391	3	0.00	0.00	4	0.63	0.63	-	-	0.391		
51091C/51091	3	5	0.00	0.00	0	0.00	0.00	-	o	1.000	5	0.00	0.00	0	0.00	0.00	-	o	1.000	5	0.00	0.00	0	0.00	0.00	-	o	1.000		
62802C/50226	3	1	0.00	0.00	4	0.00	0.00	-	o	1.000	1	0.00	0.00	4	0.00	0.00	-	o	1.000	1	0.00	0.00	4	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		2.80	2.80		-			
Fisher's	Power		---		Power-50%	---	P-value		z	Power	---		Power-50%	---	P-value		z	Power	---		Power	---		Power-50%	---	P-value		z	Power	---
Stouffer's	Power		---		Power-50%	---	P-value		---	Power	---		Power-50%	---	P-value		---	Power	---		Power	---		Power-50%	---	P-value		---	Power	---

(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-5.393. Page 3. December 15, 1994

Fine Filamentous Browns (AE) (b)																																
50389C/50389	1	1	0.00	0.00	0	0.00	0.00	-	o	1.000																						
51091C/51091	1	1	0.00	0.00	0	0.00	0.00	-	o	1.000																						
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		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	0.00	5	0.00	0.00	-	o	1.000																						
51091C/51091	2	1	0.00	0.00	0	0.00	0.00	-	o	1.000																						
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		z	Power	---		Power	---		Power-50%	---	P-value		z	Power	---		
Stouffer's	Power		---		Power-50%	---	P-value		---	Power	---		Power-50%	---	P-value		---	Power	---		Power	---		Power-50%	---	P-value		---	Power	---		
50389C/50389	3	3	0.00	0.00	4	0.63	0.63	-	-	0.391																						
51091C/51091	3	5	0.00	0.00	0	0.00	0.00	-	o	1.000																						
62802C/50226	3	1	0.00	0.00	4	0.00	0.00	-	o	1.000																						
Habitat Means			0.00	0.00		2.80	2.80		-																							
Fisher's	Power		---		Power-50%	---	P-value		z	Power	---		Power-50%	---	P-value		z	Power	---		Power	---		Power-50%	---	P-value		z	Power	---		
Stouffer's	Power		---		Power-50%	---	P-value		---	Power	---		Power-50%	---	P-value		---	Power	---		Power	---		Power-50%	---	P-value		---	Power	---		

(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-5.393. Page 4. December 15, 1994

Table C-5.394. Algal Percent Cover. Rhodophyta. Cook Inlet/Kanai. Coarse Textured. June 1991. Overstory removed 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									Gigartinales Group (P) (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	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	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	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	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	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	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			
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	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	0.00	0.00	4	0.00	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	0.00	-	o	---	
Habitat Means			0.00	0.00		2.20	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		---		Power	---		Power-50%	---	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 5.394. Page 1. December 15, 1994

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	1	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	1	0.00	--	0	--	--	--	--	---	1	0.00	--	0	--	--	--	--	---	1	0.00	--	0	--	--	--	--	---				
62802C/50226 1	4	1	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	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	1	0.00	--	0	--	--	--	--	---	1	0.00	--	0	--	--	--	--	---	1	0.00	--	0	--	--	--	--	---				
62802C/50226 2	3	1	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		---		Power	---		Power-50%	---	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	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	3	0.00	0.00	0	--	--	--	--	---	5	0.00	0.00	0	--	--	--	--	---	5	0.00	0.00	0	--	--	--	--	---				
62802C/50226 3	1	3	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		---		Power	---		Power-50%	---	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 5.394. Page 2. December 15, 1994

Table C-5.394. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Coarse Textured. June 1991. Overstory removed August 1990. (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	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	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	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		---	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		---	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	-	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		0.95	0.95		o			0.00	0.00		0.00	0.00		o						
Fisher's	Power		---		Power-50%	---	P-value		---	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		---	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 5.394. Page 3. December 15, 1994

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					
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	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	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		---	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		---	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	2.50	2.50	-	o	0.391	3	0.00	0.00	4	2.50	2.50	-	o	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		0.00	0.00		o			0.00	0.00		1.25	1.25		-			0.00	0.00		1.25	1.25		-						
Fisher's	Power		---		Power-50%	---	P-value		---	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		---	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 5.394. Page 4. December 15, 1994

Table C-5.394. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Coarse Textured. June 1991. Overstory removed August 1990. (Continued.)

Morphological Group: Crustose Reds										Hildenbrandia sp. (P)																			
Ward	N	C	SE	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	0	0.00	---	---	---	1	0.00	---	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
51091C/51091	1	1	0.00	---	0	---	---	---	---	1	0.00	---	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
62802C/50226	1	4	0.00	0.00	4	0.00	0.00	---	1.000	4	0.00	0.00	4	0.00	0.00	---	---	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	---		Power-50%	---	P-value	0.597	Power	---		Power	---		Power-50%	---	P-value			
Stouffer's	Power	---		Power-50%	---	P-value	0.500	Power	---		Power	---		Power-50%	---	P-value	0.500	Power	---		Power	---		Power-50%	---	P-value			
50389C/50389	2	1	0.00	---	5	0.00	0.00	---	---	1	0.00	---	5	0.00	0.00	---	---	---	---	---	---	---	---	---	---	---	---		
51091C/51091	2	1	0.00	---	0	---	---	---	---	1	0.00	---	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
62802C/50226	2	3	0.00	0.00	2	0.00	0.00	---	1.000	3	0.00	0.00	2	0.00	0.00	---	---	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	---	Power	---		Power	---		Power-50%	---	P-value	---	Power	---		Power	---		Power-50%	---	P-value			
Stouffer's	Power	---		Power-50%	---	P-value	---	Power	---		Power	---		Power-50%	---	P-value	---	Power	---		Power	---		Power-50%	---	P-value			
50389C/50389	3	3	0.00	0.00	4	0.00	0.00	---	1.000	3	0.00	0.00	4	0.00	0.00	---	---	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	---	---	1	0.00	---	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													
Fisher's	Power	---		Power-50%	---	P-value	---	Power	---		Power	---		Power-50%	---	P-value	---	Power	---		Power	---		Power-50%	---	P-value			
Stouffer's	Power	---		Power-50%	---	P-value	---	Power	---		Power	---		Power-50%	---	P-value	---	Power	---		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-5.394, Page 5, December 15, 1994

**Table C-5.395. Algal Percent Cover. Invertebrates. Cook Inlet/Kenai. Coarse Textured. June 1991. Overstory removed 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.

Balanomorphs											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	1.25	1.25	5	0.50	0.50	-	+	0.513	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	2.50	2.50	-	-	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			0.43	0.65	1.50	1.50	-					0.00	0.00		0.00	0.00	-	o			0.00	0.00		0.00	0.00	-	o					
Fisher's																																
Stouffer's																																
Power																																
Power																																
50389C/50389	2	1	0.00	--	5	2.50	1.94	-	-	--	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	2.50	1.44	2	0.00	0.00	-	+	0.196	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			0.83	1.40	1.25	0.95	+					0.00	0.00		0.00	0.00	-	o			0.00	0.00		0.00	0.00	-	o					
Fisher's																																
Stouffer's																																
Power																																
Power																																
50389C/50389	3	3	0.00	0.00	4	5.00	2.50	-	-	0.026	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	12.50	10.10	4	0.00	0.00	-	+	0.258				
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	5.00	2.70	-	-	--	1	0.00	--	4	0.00	0.00	-	o	--	1	0.00	--	4	0.63	0.63	-	-	--				
Habitat Means			0.00	0.00	5.00	2.60	-					0.00	0.00		0.00	0.00	-	o			4.17	5.05		0.30	0.30	-						
Fisher's																																
Stouffer's																																
Power																																
Power																																

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

Table C-5.395, Page 1, December 15, 1994

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	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	0.00	-	o																							
Fisher's	Power		---		Power-50%	---	P-value	0.597		Power	---		Power-50%	---	P-value		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		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	0.00	-	o																							
Fisher's	Power		---		Power-50%	---	P-value	---		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		Power	---		Power-50%	---	P-value			
50389C/50389	3	3	0.00	0.00	4	0.63	0.63	-	-	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	0.30	0.30	-																									
Fisher's	Power		---		Power-50%	---	P-value	---		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		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-5.395, Page 2, December 15, 1994

**Table C-5.396. Algal Percent Cover, Substrates, Cook Inlet/Kenai, Coarse Textured, June 1991. Overstory removed 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									
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	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	98.75	1.25	5	99.50	0.50	-	-	0.513	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	84.38	15.63	4	97.50	2.50	-	-	0.564	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	15.63	15.63	4	0.00	0.00	-	+	0.391			
Habitat Means			94.40	8.45		98.50	1.50		-			0.00	0.00		0.00	0.00		o			5.20	7.80		0.00	0.00						
Fisher's	Power		0.202		Power-50%		0.942	P-value	0.263		Power	---		Power-50%		---	P-value	0.597		Power	---		Power-50%		---	P-value	0.325				
Stouffer's	Power		0.191		Power-50%		0.961	P-value	0.194		Power	---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---	P-value	0.259				
50389C/50389	2	1	100.00	--	5	83.50	13.50	-	+	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	14.00	14.00	-	-	---			
51091C/51091	2	1	100.00	--	0	--	--	--	--	---	1	0.00	--	0	--	--	--	--	--	1	0.00	--	0	--	--	--	--	---			
62802C/50226	2	3	95.83	2.20	2	100.00	0.00	-	-	0.188	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			98.60	2.20		91.75	6.75		-			0.00	0.00		0.00	0.00		o			0.00	0.00		7.00	7.00		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	---	yz	Power	---		Power-50%		---	P-value	---	yz	Power	---		Power-50%		---	P-value	---	yz			
50389C/50389	3	3	80.83	16.73	4	75.63	18.69	-	+	0.774	3	0.00	0.00	4	5.00	5.00	-	-	0.391	3	0.00	0.00	4	0.00	0.00	-	o	1.000			
51091C/51091	3	5	100.00	0.00	0	--	--	--	--	---	5	0.00	0.00	0	--	--	--	--	---	5	0.00	0.00	0	--	--	--	--	---			
62802C/50226	3	1	35.00	--	4	66.87	16.25	-	-	---	1	0.00	--	4	0.00	0.00	-	o	---	1	65.00	--	4	0.00	0.00	-	+	---			
Habitat Means			71.93	8.35		71.25	17.50		+			0.00	0.00		2.50	2.50		-			21.67	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	---	yz			
Stouffer's	Power		---		Power-50%		---	P-value	---	yz	Power	---		Power-50%		---	P-value	---	yz	Power	---		Power-50%		---	P-value	---	yz			

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

Table C-5.396, Page 1, December 15, 1994

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	15.63	15.63	4	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			5.20	7.80		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	14.00	14.00	-	-	---	
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	0.83	0.83	2	0.00	0.00	-	+	0.423	
Habitat Means			0.27	0.80		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.27	0.80		7.00	7.00		+		
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	---	yz	Power	---		Power-50%		---	P-value	---	yz	Power	---		Power-50%		---	P-value	---	yz	
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	5.00	5.00	-	-	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	65.00	--	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			21.67	0.00		2.50	2.50		-		
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	---	yz	Power	---		Power-50%		---	P-value	---	yz	Power	---		Power-50%		---	P-value	---	yz	

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

Table C-5.396, Page 2, December 15, 1994

Table C-5.396. Algal Percent Cover. Substrates. Cook Inlet/Kenai. Coarse Textured. June 1991. Overstory removed August 1990. (Continued.)

Site Pair	Mvd	N	Total Substrate																									
			C	SE	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	98.75	1.25	5	99.50	0.50	-	-	0.513																		
51091C/51091	1	1	100.00		0																							
62802C/50226	1	4	100.00	0.00	4	97.50	2.50	-	+	0.391																		
Habitat Means			99.60	0.65		98.50	1.50		+																			
Fisher's	Power		0.183		Power-50%	1.000	P-value		0.426	Power	---		Power-50%	---	P-value		Power	---		Power-50%	---	P-value						
Stouffer's	Power		0.138		Power-50%	1.000	P-value		0.414	Power	---		Power-50%	---	P-value		Power	---		Power-50%	---	P-value						
50389C/50389	2	1	100.00	--	5	97.50	1.94	-	+	---																		
51091C/51091	2	1	100.00	--	0	--	--	--	--	---																		
62802C/50226	2	3	96.67	1.67	2	100.00	0.00	-	-	0.184																		
Habitat Means			98.90	1.70		98.75	0.95		-																			
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	80.83	16.73	4	80.63	13.75	-	+	0.879																		
51091C/51091	3	5	100.00	0.00	0	--	--	--	--	---																		
62802C/50226	3	1	100.00	--	4	66.87	16.25	-	+	---																		
Habitat Means			93.60	8.35		73.75	15.05		+																			
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 5.296. Page 3. December 15, 1994



**Table C-5.397. Algal Percent Cover, Totals and Seasonal Groups, Cook Inlet/Kenai, Estuarine, May 1991, Overstory removed 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	0.26	0.14	5	0.06	0.00	-	+	0.202	3	2.00	0.58	5	0.40	0.24	-	+	0.024	3	24.17	10.44	5	1.50	1.00	-	+	0.008	
50981C/50221	1	2	0.12	0.12	5	0.16	0.07	-	-	0.756	2	1.50	1.50	5	1.80	0.37	-	-	0.779	2	22.50	22.50	5	37.96	16.32	-	-	0.534	
50981C/50981	1	2	0.12	0.12	4	0.14	0.08	-	-	0.910	2	1.50	1.50	4	1.25	0.48	-	+	0.841	2	22.50	22.50	4	6.25	2.17	-	+	0.586	
Habitat Means			0.17	0.13		0.10	0.05	-				1.67	1.19		1.15	0.37	+				23.07	18.47		15.27	6.50	+			
Fisher's	Power		0.059		Power-50%		0.504	P-value		0.713	Power	---		Power-50%		---	P-value		0.072	Power	---		Power-50%		---	P-value		0.028	
Stouffer's	Power		0.114		Power-50%		0.479	P-value		0.689	Power	0.342		Power-50%		0.652	P-value		0.104	Power	---		Power-50%		---	P-value		0.068	
C15.1C/C15.1	2	2	0.04	0.04	4	0.06	0.00	-	-	0.500	2	1.50	0.50	4	0.50	0.29	-	-	0.132	2	28.75	26.25	4	11.87	8.25	-	+	0.468	
50981C/50221	2	1	0.24	--	4	0.16	0.08	-	-	---	1	2.00	--	4	1.25	0.63	-	-	---	1	32.50	--	4	54.08	18.10	-	-	---	
50981C/50981	2	1	0.24	--	5	0.16	0.09	-	-	---	1	2.00	--	5	1.40	0.75	-	-	---	1	32.50	--	5	38.00	17.77	-	-	---	
Habitat Means			0.17	0.04		0.08	0.06	+				1.83	0.50		1.05	0.56	+				31.27	26.30		34.67	14.73	+			
Fisher's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	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	0.59	--	4	0.07	0.07	-	+	---	1	4.00	--	4	0.75	0.48	-	+	---	1	80.00	--	4	3.75	2.98	-	-	---	
50981C/50221	3	2	0.44	0.02	0	--	--	-	-	---	2	3.50	0.50	0	--	--	-	-	---	2	63.15	36.85	0	--	--	-	-	---	
50981C/50981	3	2	0.44	0.02	2	0.04	0.04	-	+	0.010	2	3.50	0.50	2	1.50	0.50	-	+	0.106	2	63.15	36.85	2	21.90	8.10	-	+	0.389	
Habitat Means			0.49	0.02		0.04	0.06	+				3.67	0.50		1.13	0.49	+				68.80	36.90		12.85	5.55	+			
Fisher's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	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 &lt; 0.100 in 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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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	22.00	11.66	-	-	0.063	3	75.83	10.44	5	76.50	11.22	-	-	0.864	3	8.33	4.17	5	1.50	1.00	-	-	0.183	
50981C/50221	1	2	2.50	2.50	5	0.50	0.50	-	+	0.357	2	57.50	37.50	5	45.86	15.20	-	+	0.658	2	1.25	1.25	5	34.28	16.29	-	-	0.205	
50981C/50981	1	2	2.50	2.50	4	0.00	0.00	-	+	0.500	2	57.50	37.50	4	90.63	4.72	-	-	0.262	2	1.25	1.25	4	2.50	1.44	-	-	0.775	
Habitat Means			1.67	1.67	7.50	4.07		+				63.60	28.47		71.00	10.37	-				3.63	2.27		12.77	6.23				
Fisher's	Power		0.042		Power-50%	---	P-value			0.392	Power	0.034		Power-50%	0.468	P-value			0.365	Power	0.108		Power-50%	0.514	P-value			0.355	
Stouffer's	Power		0.008		Power-50%	---	P-value			0.560	Power	0.044		Power-50%	0.468	P-value			0.312	Power	0.059		Power-50%	0.490	P-value			0.449	
C15.1C/C15.1	2	2	0.00	0.00	4	16.80	8.50	-	-	0.096	2	71.25	26.25	4	71.25	5.99	-	o	0.807	2	27.50	25.00	4	11.87	8.25	-	+	0.482	
50981C/50221	2	1	0.00	--	4	1.80	1.88	-	-	---	1	52.50	--	4	36.25	21.76	-	+	---	1	7.50	--	4	36.58	19.74	-	-	---	
50981C/50981	2	1	0.00	--	5	0.50	0.50	-	-	---	1	52.50	--	5	52.50	19.62	-	o	---	1	7.50	--	5	22.00	16.02	-	-	---	
Habitat Means			0.00	0.00	6.40	3.63		-				58.77	26.30		53.37	15.80	o				14.17	25.00		23.50	14.67	-			
Fisher's	Power		---		Power-50%	---	P-value			---	Power	---		Power-50%	---	P-value			---	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	3.10	3.13	-	-	---	1	20.00	--	4	91.88	4.13	-	-	---	1	20.00	--	4	3.13	3.13	-	-	---	
50981C/50221	3	2	5.00	5.00	0	--	--	-	-	---	2	17.50	17.50	0	--	--	-	-	---	2	7.50	7.50	0	--	--	-	-	---	
50981C/50981	3	2	5.00	5.00	2	0.00	0.00	-	+	0.500	2	17.50	17.50	2	78.15	8.15	-	-	0.145	2	7.50	7.50	2	21.30	7.50	-	-	0.337	
Habitat Means			3.33	5.00	1.50	1.55		+				18.33	17.50		85.05	6.15	-				11.67	7.50		12.20	5.30	-			
Fisher's	Power		---		Power-50%	---	P-value			---	Power	---		Power-50%	---	P-value			---	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 &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.397, Page 2, December 15, 1994

Table C-5.397. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Estuarine. May 1991. Overstory removed June 1990. (Continued.)

Site Pair	Mvd	N	Annuals (A)								Ephemerals (AE)																	
			C	SE	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	15.83	9.39	5	0.00	0.00	-	+	0.201	3	15.83	9.39	5	0.00	0.00	-	+	0.201									
50981C/50221	1	2	21.25	21.25	5	3.66	2.48	-	+	0.350	2	21.25	21.25	5	3.66	2.48	-	+	0.350									
50981C/50981	1	2	21.25	21.25	4	3.75	2.17	-	+	0.459	2	21.25	21.25	4	3.75	2.17	-	+	0.459									
Habitat Means			19.47	17.33		2.50	1.57		+			19.47	17.33		2.50	1.57		+										
Fisher's	Power		---		Power-50%		---	P-value	0.087		Power		---		Power-50%		---	P-value	0.087	Power		---		Power-50%		---	P-value	
Stouffer's	Power		---		Power-50%		---	P-value	0.044		Power		---		Power-50%		---	P-value	0.044	Power		---		Power-50%		---	P-value	
C15.1C/C15.1	2	2	1.25	1.25	4	0.00	0.00	-	+	0.500	2	1.25	1.25	4	0.00	0.00	-	+	0.500									
50981C/50221	2	1	25.00	--	4	0.00	0.00	-	+	---	1	25.00	--	4	0.00	0.00	-	+	---									
50981C/50981	2	1	25.00	--	5	16.00	11.25	-	+	---	1	25.00	--	5	16.00	11.25	-	+	---									
Habitat Means			17.10	1.30		5.33	3.77		+			17.10	1.30		5.33	3.77		+										
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	60.00	--	4	0.63	0.63	-	+	---	1	60.00	--	4	0.00	0.00	-	+	---									
50981C/50221	3	2	55.65	44.35	0	--	--	--	--	---	2	51.90	48.10	0	--	--	--	--	---									
50981C/50981	3	2	55.65	44.35	2	0.65	0.65	-	+	0.282	2	51.90	48.10	2	0.65	0.65	-	+	0.354									
Habitat Means			57.13	44.40		0.65	0.65		+			54.60	48.10		0.35	0.35		+										
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 5.397, Page 1, December 15, 1994

**Table C-5.398. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai, Estuarine. May 1991. Overstory removed 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	15.83	9.39	5	0.00	0.00	-	-	0.201	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	2.50	2.50	5	3.16	2.05	-	-	0.999	2	0.00	0.00	5	2.00	2.00	-	o	0.374	2	0.00	0.00	5	2.00	2.00	-	o	0.374		
50981C/50981	1	2	2.50	2.50	4	3.75	2.17	-	-	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			6.93	4.80		2.33	1.43		-			0.00	0.00		0.67	0.67		-			0.00	0.00		0.67	0.67		-			
Fisher's	Power		0.033			Power-50%	0.387			0.723 y	Power	---			Power-50%	---			0.409	Power	---			Power-50%	---			0.409		
Stouffer's	Power		0.005			Power-50%	0.399			0.701	Power	---			Power-50%	---			0.304	Power	---			Power-50%	---			0.304		
C15.1C/C15.1	2	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		
50981C/50221	2	1	0.00	--	4	17.50	17.50	-	-	---	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	2.00	2.00	-	-	---	1	0.00	--	5	0.50	0.50	-	-	---	1	0.00	--	5	0.50	0.50	-	-	---		
Habitat Means			0.43	1.30		6.50	6.50		-			0.00	0.00		0.17	0.17		o			0.00	0.00		0.17	0.17		o			
Fisher's	Power		---			Power-50%	---			---	Power	---			Power-50%	---			---	Power	---			Power-50%	---			---		
Stouffer's	Power		---			Power-50%	---			---	Power	---			Power-50%	---			---	Power	---			Power-50%	---			---		
C15.1C/C15.1	3	1	40.00	--	4	0.00	0.00	-	+	---	1	27.50	--	4	0.00	0.00	-	+	---	1	27.50	--	4	0.00	0.00	-	+	---		
50981C/50221	3	2	35.65	34.35	0	--	--	-	-	---	2	8.15	6.85	0	--	--	-	-	---	2	8.15	6.85	0	--	--	-	-	---		
50981C/50981	3	2	35.65	34.35	2	0.65	0.65	-	+	0.379	2	8.15	6.85	2	0.65	0.65	-	+	0.323	2	8.15	6.85	2	0.65	0.65	-	+	0.323		
Habitat Means			37.13	34.40		0.35	0.35		+			14.63	6.90		0.35	0.35		+			14.63	6.90		0.35	0.35		+			
Fisher's	Power		---			Power-50%	---			---	Power	---			Power-50%	---			---	Power	---			Power-50%	---			---		
Stouffer's	Power		---			Power-50%	---			---	Power	---			Power-50%	---			---	Power	---			Power-50%	---			---		

(a) Koroanania, 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.

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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	3	9.17	3.83	3	0.00	0.00	-	+	0.205	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
50981C/50221	1	2	0.00	0.00	5	0.00	0.00	-	+	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	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	0.00	0.00	-	o	1.000
Habitat Means			3.07	1.93		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		0.022			Power-50%	0.070			0.385	Power	---			Power-50%	---			0.655	Power	---			Power-50%	---			0.655
Stouffer's	Power		0.002			Power-50%	0.036			0.408	Power	---			Power-50%	---			0.500	Power	---			Power-50%	---			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	17.50	17.50	-	-	---	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		5.83	5.83		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---			Power-50%	---			---	Power	---			Power-50%	---			---	Power	---			Power-50%	---			---
Stouffer's	Power		---			Power-50%	---			---	Power	---			Power-50%	---			---	Power	---			Power-50%	---			---
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	27.50	27.50	0	--	--	-	-	---	2	27.50	27.50	0	--	--	-	-	---	2	27.50	27.50	0	--	--	-	-	---
50981C/50981	3	2	27.50	27.50	2	0.00	0.00	-	+	0.500	2	27.50	27.50	2	0.00	0.00	-	+	0.500	2	27.50	27.50	2	0.00	0.00	-	+	0.500
Habitat Means			18.33	27.50		0.00	0.00		+			18.33	27.50		0.00	0.00		+			18.33	27.50		0.00	0.00		+	
Fisher's	Power		---			Power-50%	---			---	Power	---			Power-50%	---			---	Power	---			Power-50%	---			---
Stouffer's	Power		---			Power-50%	---			---	Power	---			Power-50%	---			---	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-5.398, Page 2, December 15, 1994

Table C-5.398. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Estuarine. May 1991. Overstory removed June 1990. (Continued.)

Site Pair	Mvd	N	Urospora sp. (AE)							Morphological Group: Tubular and Saccate Greens							Blidingia/Enteromorpha (AE) (a)													
			C	SE	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	9.17	5.83	5	0.00	0.00	-	-	0.208	3	6.67	3.63	5	0.00	0.00	-	+	0.191	3	6.67	3.63	5	0.00	0.00	-	-	0.191		
50981C/50221	1	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	2.50	2.50	5	1.16	1.16	-	+	0.553	2	2.50	2.50	5	1.16	1.16	-	-	0.553		
50981C/50981	1	2	0.00	0.00	4	2.50	2.50	-	-	0.391	2	2.50	2.50	4	1.25	0.72	-	-	0.749	2	2.50	2.50	4	1.25	0.72	-	+	0.749		
Habitat Means			3.07	1.93		0.83	0.83		+			3.90	2.87		0.83	0.63		+			3.90	2.87		0.83	0.63		+			
Fisher's	Power		0.020		Power-50%		0.069	P-value		0.385	Power	0.410		Power-50%		0.451	P-value		0.161	Power	0.411		Power-50%		0.464	P-value		0.161		
Stouffer's	Power		0.003		Power-50%		0.035	P-value		0.408	Power	---		Power-50%		---	P-value		0.100	Power	---		Power-50%		---	P-value		0.100		
C15.1C/C15.1	2	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		
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	1.50	1.50	-	-	---	1	0.00	--	5	1.50	1.50	-	-	---		
Habitat Means			0.00	0.00		0.00	0.00		o			0.43	1.30		0.50	0.50		+			0.43	1.30		0.50	0.50		+			
Fisher's	Power		---		Power-50%		---	P-value		---	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		---	Power	
C15.1C/C15.1	3	1	0.00	--	4	0.00	0.00	-	o	---	1	12.50	--	4	0.00	0.00	-	+	---	1	12.50	--	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			4.17	0.00		0.00	0.00		o			4.17	0.00		0.00	0.00		o			
Fisher's	Power		---		Power-50%		---	P-value		---	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		---	Power	

(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 5.398. Page 3. December 15, 1994

Table C-5.399. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai, Estuarine. May 1991. Overstory removed 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 <i>Fucus gardneri</i> (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		8.33	4.17	5	1.50	1.00	-	+	0.183	3	8.33	4.17	5	1.50	1.00	-	+	0.183	3	8.33	4.17	5	1.50	1.00	-	+	0.183	
50981C/50221 1	2		20.00	20.00	5	20.78	7.73	-	-	0.745	2	1.25	1.25	5	20.28	7.34	-	-	0.120	2	1.25	1.25	5	20.28	7.34	-	-	0.120	
50981C/50981 1	2		20.00	20.00	4	2.50	1.44	-	+	0.377	2	1.25	1.25	4	2.50	1.44	-	-	0.775	2	1.25	1.25	4	2.50	1.44	-	-	0.775	
Habitat Means			16.10	14.73		8.27	3.37		+			3.63	2.27		8.10	3.23		-			3.63	2.27		8.10	3.23		-		
Fisher's	Power		0.407		Power-50%	0.505	P-value		0.171	Power	0.139		Power-50%	0.518	P-value		0.260		Power	0.140		Power-50%	0.534	P-value		0.260			
Stouffer's	Power		0.376		Power-50%	0.496	P-value		0.138	Power	0.066		Power-50%	0.505	P-value		0.385		Power	0.057		Power-50%	0.514	P-value		0.385			
C15.1C/C15.1 2	2		27.50	25.00	4	11.87	8.25	-	+	0.482	2	27.50	25.00	4	11.87	8.25	-	+	0.482	2	27.50	25.00	4	11.87	8.25	-	+	0.482	
50981C/50221 2	1		32.50	--	4	30.95	17.48	-	+	---	1	7.50	--	4	30.95	17.48	-	+	---	1	7.50	--	4	30.95	17.48	-	+	---	
50981C/50981 2	1		32.50	--	5	36.00	16.89	-	+	---	1	7.50	--	5	22.00	16.02	-	+	---	1	7.50	--	5	22.00	16.02	-	+	---	
Habitat Means			30.83	25.00		26.30	14.23		+			14.17	25.00		21.63	13.93		-			14.17	25.00		21.63	13.93		+		
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	---		Power-50%	---	P-value		---	Power	
C15.1C/C15.1 3	1		40.00	--	4	1.88	1.88	-	+	---	1	20.00	--	4	1.88	1.88	-	+	---	1	20.00	--	4	1.88	1.88	-	+	---	
50981C/50221 3	2		27.50	2.50	0	--	--	-	+	---	2	7.50	7.50	0	--	--	-	+	---	2	7.50	7.50	0	--	--	-	+	---	
50981C/50981 3	2		27.50	2.50	2	21.30	7.50	-	+	0.506	2	7.50	7.50	2	21.30	7.50	-	+	0.337	2	7.50	7.50	2	21.30	7.50	-	+	0.337	
Habitat Means			31.67	2.50		11.60	4.70		+			11.67	7.50		11.60	4.70		-			11.67	7.50		11.60	4.70		-		
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	---		Power-50%	---	P-value		---	Power	

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

Table C-5.399. Page 1. December 15, 1994

Adult <i>Fucus gardneri</i> (P) (> 2cm)											Juvenile <i>Fucus gardneri</i> (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	3.82	5	1.50	1.00	-	-	0.202	3	0.83	0.83	5	0.00	0.00	-	-	0.423	3	0.00	0.00	5	0.00	0.00	-	-	0	1.000			
50981C/50221 1	2		0.00	0.00	5	16.56	6.67	-	-	0.018	2	1.25	1.25	5	3.74	1.77	-	-	0.440	2	0.00	0.00	5	0.00	0.00	-	-	0	1.000			
50981C/50981 1	2		0.00	0.00	4	2.50	1.44	-	-	0.182	2	1.25	1.25	4	0.00	0.00	-	-	0.500	2	0.00	0.00	4	0.00	0.00	-	-	0	1.000			
Habitat Means			2.50	1.27		6.87	3.03		-			1.13	1.13		1.23	0.60		+			0.00	0.00		0.00	0.00		0					
Fisher's	Power		---		Power-50%	---	P-value		---	0.025	Power	0.032		Power-50%	---	P-value		---	0.382	yz	Power	---		Power-50%	---	P-value		0.655				
Stouffer's	Power		---		Power-50%	---	P-value		---	0.081	Power	0.037		Power-50%	---	P-value		---	0.342	Power	---		Power-50%	---	P-value		---	0.500				
C15.1C/C15.1 2	2		25.00	25.00	4	11.87	8.25	-	+	0.688	2	2.50	0.00	4	0.00	0.00	-	+	---	2	0.00	0.00	4	0.00	0.00	-	+	0	1.000			
50981C/50221 2	1		7.50	--	4	30.32	17.79	-	-	---	1	0.00	--	4	0.63	0.63	-	-	---	1	0.00	--	4	0.00	0.00	-	-	0	---			
50981C/50981 2	1		7.50	--	5	21.50	16.12	-	-	---	1	0.00	--	5	0.50	0.50	-	-	---	1	0.00	--	5	0.00	0.00	-	-	0	---			
Habitat Means			13.33	25.00		21.23	14.07		+			0.83	0.00		0.37	0.37		-			0.00	0.00		0.00	0.00		0					
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	---		Power-50%	---	P-value		---	Power				
C15.1C/C15.1 3	1		20.00	--	4	1.88	1.88	-	+	---	1	0.00	--	4	0.00	0.00	-	o	---	1	0.00	--	4	0.00	0.00	-	o	---				
50981C/50221 3	2		7.50	7.50	0	--	--	-	+	---	2	0.00	0.00	0	--	--	-	+	---	2	0.00	0.00	0	--	--	-	+	---				
50981C/50981 3	2		7.50	7.50	2	21.30	7.50	-	-	0.337	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			11.67	7.50		11.60	4.70		-			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	---		Power-50%	---	P-value		---	Power				

(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-5.399. Page 2. December 15, 1994

Table C-5.399. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Estuarine. May 1991. Overstory removed June 1990. (Continued.)

Petalonia/Punctaria (AE) (b)											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					
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	0.03	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	0.03	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	0.03	0.00	-	o	1.000					
Habitat 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	0.00		o						
Fisher's	Power		---		Power-50%	---	P-value		0.655	Power	---		Power-50%	---	P-value		0.655	Power	---		Power-50%	---	P-value		0.655	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	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		---	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		---	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	3.75	3.75	0	--	--	-	---	---	2	3.75	3.75	0	--	--	-	---	---					
50981C/50981	3	2	0.00	0.00	2	0.00	0.00	-	o	1.000	2	3.75	3.75	2	0.00	0.00	-	+	0.500	2	3.75	3.75	2	0.00	0.00	-	+	0.500					
Habitat Means			0.00	0.00		0.00	0.00		o			2.53	3.80		0.00	0.00		+			2.53	3.80		0.00	0.00		+						
Fisher's	Power		---		Power-50%	---	P-value		---	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		---	Power	---		Power-50%	---	P-value		---

(b) Genera not separated.

(a) Genera not separated.

\* At least one site pair p value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

mp

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	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	18.75	18.75	5	0.50	0.50	-	+	0.531	2	18.75	18.75	5	0.50	0.50	-	+	0.531																				
50981C/50981	1	2	18.75	18.75	4	0.00	0.00	-	+	0.500	2	18.75	18.75	4	0.00	0.00	-	+	0.500																				
Habitat Means			12.53	12.53		0.17	0.17		+			12.53	12.53		0.17	0.17		+																					
Fisher's	Power		---		Power-50%	---	P-value		0.339	Power	---		Power-50%	---	P-value		0.339	Power	---		Power-50%	---	P-value		0.339	Power	---		Power-50%	---	P-value		---	Power	---		Power-50%	---	P-value
Stouffer's	Power		---		Power-50%	---	P-value		0.227	Power	---		Power-50%	---	P-value		0.227	Power	---		Power-50%	---	P-value		0.227	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	2	0.00	0.00	4	0.00	0.00	-	o	1.000																				
50981C/50221	2	1	25.00	--	4	0.00	0.00	-	+	---	1	25.00	--	4	0.00	0.00	-	+	---																				
50981C/50981	2	1	25.00	--	5	14.00	9.44	-	+	---	1	25.00	--	5	14.00	9.44	-	+	---																				
Habitat Means			16.67	0.00		4.67	3.13		o			16.67	0.00		4.67	3.13		o																					
Fisher's	Power		---		Power-50%	---	P-value		---	Power	---		Power-50%	---	P-value		---	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		---	Power	---		Power-50%	---	P-value		---	Power	---		Power-50%	---	P-value
C15.1C/C15.1	3	1	20.00	--	4	0.00	0.00	-	+	---	1	20.00	--	4	0.00	0.00	-	+	---																				
50981C/50221	3	2	16.25	13.75	0	--	--	-	---	---	2	16.25	13.75	0	--	--	-	---	---																				
50981C/50981	3	2	16.25	13.75	2	0.00	0.00	-	+	0.330	2	16.25	13.75	2	0.00	0.00	-	+	0.330																				
Habitat Means			17.53	13.80		0.00	0.00		+			17.53	13.80		0.00	0.00		+																					
Fisher's	Power		---		Power-50%	---	P-value		---	Power	---		Power-50%	---	P-value		---	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		---	Power	---		Power-50%	---	P-value		---	Power	---		Power-50%	---	P-value

(b) Elachista, Ectocarpus and Pilayella.

\* At least one site pair p value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C 5.399, Page 4, December 15, 1994

Table C-5.400. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai, Estuarine. May 1991. Overstory removed 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	14.00	14.00	-	-	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		4.67	4.67		-			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	0.304	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	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	5.62	5.63	-	-	---	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	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		1.87	1.87		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o		
Fisher's	Power		---		Power-50%		---	P-value		Power	---		Power-50%		---	P-value		Power	---		Power-50%		---	P-value		Power	---		Power-50%
Stouffer's	Power		---		Power-50%		---	P-value	---	yz	Power	---		Power-50%		---	P-value	---	z	Power	---		Power-50%		---	P-value	---	z	
C15.1C/C15.1	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	---	
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		0.95	0.60		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		Power	---		Power-50%		---	P-value		Power	---		Power-50%		---	P-value		Power	---		Power-50%
Stouffer's	Power		---		Power-50%		---	P-value		yz	Power	---		Power-50%		---	P-value		z	Power	---		Power-50%		---	P-value		z	

x At least one site pair p-value < 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.400. Page 1. December 15, 1994

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	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	1.25	1.25	-	-	---	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		0.43	0.43		o			0.00	0.00		0.00	0.00		o		
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	---	
C15.1C/C15.1	3	1	0.00		4	0.00	0.00	-	o	---	1	0.00		4	1.25	1.25	-	-	---	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		0.65	0.65		o			0.00	0.00		0.00	0.00		o		
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-5.400. Page 2. December 15, 1994

Table C-5.400. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Estuarine. May 1991. Overstory removed June 1990. (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	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	1.25	1.25	-	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		0.43	0.43		o			0.00	0.00		0.00	0.00		o		
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		---	
C15.1C/C15.1	3	1	0.00		--	4	0.00	0.00	-	o	---	1	0.00	--	4	1.25	1.25	-	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		0.65	0.65		o			0.00	0.00		0.00	0.00		o		
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-5.400. Page 3. December 15, 1994

Site Pair	Mvd	Morphological Group: Saccate Reds								Halosaccion spp. (A)								Morphological Group: Fine Filamentous Reds										
		SE	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	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		---	Power	---			Power-50%	---	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	-	o	---	1	0.00		4	0.63	0.63	-	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		0.30	0.30		o			0.00	0.00		0.30	0.30		o			0.00	0.00		0.00	0.00		o	
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-5.400. Page 4. December 15, 1994



Table C-5.400. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Estuarine. May 1991. Overstory removed 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	14.00	14.00	-	o	0.374	2	0.00	0.00	5	14.00	14.00	-	o	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		4.67	4.67		-			0.00	0.00		4.67	4.67		-			
Fisher's	Power		---		Power-50%	---	P-value		0.655	Power	---		Power-50%	---	P-value		0.409	Power	---		Power-50%	---	P-value		0.409	Power	---		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	Power	---		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	4.37	4.37	-	o	---	1	0.00	--	4	4.37	4.37	-	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		1.47	1.47		o			0.00	0.00		1.47	1.47		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		---	Power	---		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		---	Power	---		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 5.400. Page 5. December 15, 1994

Table C-5.401. Algal Percent Cover. Invertebrates. Cook Inlet/Kenai, Estuarine. May 1991. Overstory removed 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	20.00	11.48	-	-	0.102	3	0.00	0.00	5	0.50	0.50	-	-	0.374	3	0.00	0.00	5	1.00	0.61	-	-	0.178	
50981C/50221	1	2	2.50	2.50	5	0.50	0.50	-	+	0.357	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		6.83	4.00		+			0.00	0.00		0.17	0.17		-			0.00	0.00		0.33	0.20		-		
Fisher's	Power		0.079		Power-50%		---	P-value		0.388	y	Power	---		Power-50%		---	P-value		0.409	Power	0.000		Power-50%		---	P-value	0.268	
Stouffer's	Power		0.017		Power-50%		---	P-value		0.509		Power	---		Power-50%		---	P-value		0.304	Power	0.000		Power-50%		---	P-value	0.218	
C15.1C/C15.1	2	2	0.00	0.00	4	15.63	7.80	-	-	0.093	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	1.25	0.72	-	-	0.182	
50981C/50221	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	---	
50981C/50981	2	1	0.00	--	5	0.50	0.50	-	-	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---	
Habitat Means			0.00	0.00		6.00	3.40		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.43	0.23		-		
Fisher's	Power		---		Power-50%		---	P-value		---	x	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value	---	x
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	3.13	3.13	-	-	---	
50981C/50221	3	2	4.40	4.40	0	--	--	-	-	---	2	0.00	0.00	0	--	--	-	-	---	2	0.65	0.65	0	--	--	-	-	---	
50981C/50981	3	2	4.40	4.40	2	0.00	0.00	-	+	0.500	2	0.00	0.00	2	0.00	0.00	-	o	1.000	2	0.65	0.65	2	0.00	0.00	-	-	0.500	
Habitat Means			2.93	4.40		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.47	0.70		1.55	1.55		+		
Fisher's	Power		---		Power-50%		---	P-value		---	x	Power	---		Power-50%		---	P-value		---	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-5.401, Page 1, December 15, 1994

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	3	0.00	0.00	5	0.50	0.50	-	-	0.374																		
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		0.17	0.17		-																			
Fisher's	Power		---		Power-50%		---	P-value		0.409	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's	Power		---		Power-50%		---	P-value		0.304	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		---	Power	---		Power-50%		---	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	0.00	0.00	-	o	---																		
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		0.00	0.00		o																			
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-5.401, Page 2, December 15, 1994

**Table C-5.402. Algal Percent Cover. Substrates. Cook Inlet/Kenai, Estuarine. May 1991. Overstory removed 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											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		75.83	10.44	5	76.50	11.22	-	-	0.864	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		57.50	37.50	5	45.86	15.20	-	+	0.658	2	17.50	17.50	5	0.00	0.00	-	+	0.500	2	0.00	0.00	5	15.66	15.66	-	-	0.374
50981C/50981 1	2		57.50	37.50	4	90.63	4.72	-	-	0.262	2	17.50	17.50	4	0.00	0.00	-	+	0.500	2	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			63.60	28.47		71.00	10.37		-			11.67	11.67		0.00	0.00		-			0.00	0.00		5.23	5.23		-	
Fisher's	Power		0.033		Power-50%	0.454	P-value			0.365	Power	---		Power-50%	---	P-value			0.327	Power	---		Power-50%	---	P-value			0.409
Stouffer's	Power		0.046		Power-50%	0.457	P-value			0.312	Power	---		Power-50%	---	P-value			0.218	Power	---		Power-50%	---	P-value			0.304
C15.1C/C15.1 2	2		71.25	26.25	4	71.25	5.99	-	o	0.807	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		52.50	--	4	36.25	21.76	-	+	---	1	15.00	--	4	0.00	0.00	-	+	---	1	0.00	--	4	7.83	5.61	-	-	---
50981C/50981 2	1		52.50	--	5	52.50	19.62	-	o	---	1	15.00	--	5	1.00	1.00	-	+	---	1	0.00	--	5	8.00	8.00	-	-	---
Habitat Means			58.77	26.30		53.37	15.80		o			10.00	0.00		0.33	0.33		o			0.00	0.00		5.27	4.53		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		20.00	--	4	91.88	4.13	-	-	---	1	0.00	--	4	1.25	1.25	-	-	---	1	0.00	--	4	0.00	0.00	-	o	---
50981C/50221 3	2		17.50	17.50	0	--	--	-	-	---	2	14.40	14.40	0	--	--	-	-	---	2	0.00	0.00	0	--	--	-	-	---
50981C/50981 3	2		17.50	17.50	2	78.15	8.15	-	-	0.145	2	14.40	14.40	2	0.00	0.00	-	+	0.500	2	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			18.33	17.50		85.05	6.15		-			9.60	14.40		0.65	0.65		-			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 5.402, Page 1, December 15, 1994

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	3.13	3.13	-	-	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		1.03	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			0.419	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	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 5.402, Page 2, December 15, 1994

Table C-5.402. Algal Percent Cover, Totals and Seasonal Groups, Cook Inlet/Kenai, Estuarine, May 1991. Overstory removed 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	
C15.1C/C15.1	1	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	75.83	10.44	5	76.50	11.22	-	-	0.864										
50981C/50221	1	2	17.50	17.50	5	15.66	15.66	-	+	0.814	2	75.00	20.00	5	61.54	16.74	-	+	0.691										
50981C/50981	1	2	17.50	17.50	4	0.00	0.00	-	+	0.500	2	75.00	20.00	4	90.63	4.72	-	-	0.373										
Habitat Means			11.67	11.67		5.23	5.23					75.27	16.80		76.20	10.87													
Fisher's	Power		---		Power-50%	---	P-value			0.428	Power	0.015		Power-50%		0.989	P-value		0.436	Power	---		Power-50%	---	P-value				
Stouffer's	Power		---		Power-50%	---	P-value			0.300	Power	0.012		Power-50%		0.988	P-value		0.351	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	26.25	4	71.25	5.99	-	o	0.807										
50981C/50221	2	1	15.00	--	4	7.83	5.61	-	+	---	1	67.50	--	4	44.08	18.64	-	+	---										
50981C/50981	2	1	15.00	--	5	9.00	7.81	-	+	---	1	67.50	--	5	61.50	17.74	-	+	---										
Habitat Means			10.00	0.00		5.60	4.47		o			68.77	26.30		58.97	14.10		o											
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				
C15.1C/C15.1	3	1	0.00	--	4	1.25	1.25	-	-	---	1	20.00	--	4	93.13	3.29	-	-	---										
50981C/50221	3	2	14.40	14.40	0	--	--	-	-	---	2	31.90	31.90	0	--	--	-	-	---										
50981C/50981	3	2	14.40	14.40	2	0.00	0.00	-	+	0.500	2	31.90	31.90	2	78.15	8.15	-	-	0.315										
Habitat Means			9.60	14.40		0.65	0.65		+			27.93	31.90		85.65	5.75		-											
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				

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

Table C-5.402. Page 3. December 15, 1994

**Table C-5.403. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai, Estuarine, June 1991. Overstory removed 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	0.09	0.09	3	0.07	0.07	-	+	0.829	4	1.25	0.95	3	1.00	0.58	-	+	0.846	4	14.37	13.55	3	15.83	9.39	-	-	0.770	
50981C/50221	1	2	0.15	0.15	5	0.17	0.11	-	-	0.924	2	1.50	0.50	5	2.00	0.63	-	-	0.666	2	12.50	2.50	5	24.60	10.86	-	-	0.533	
50981C/50981	1	2	0.15	0.15	4	0.08	0.06	-	+	0.590	2	1.50	0.50	4	1.00	0.58	-	+	0.615	2	12.50	2.50	4	21.88	18.69	-	-	0.980	
Habitat Means			0.13	0.13		0.10	0.08		+			1.42	0.65		1.33	0.60		+			13.13	6.20		20.77	13.00		-		
Fisher's	Power		0.091		Power-50%		---	P-value	0.488	Power	0.058		Power-50%		Power-50%	0.624	P-value	0.558	Power	0.052		Power-50%		Power-50%	0.347	P-value	0.425		
Stouffer's	Power		0.082		Power-50%		---	P-value	0.352	Power	0.052		Power-50%		Power-50%	0.670	P-value	0.439	Power	0.077		Power-50%		Power-50%	0.398	P-value	0.294		
C15.1C/C15.1	2	5	0.18	0.07	4	0.00	0.00	-	+	0.063	5	2.20	0.37	4	0.50	0.29	-	+	0.011	5	95.00	1.58	4	12.82	7.41	-	+	0.000	
50981C/50221	2	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	1.00	0.00	-	---	---	0	--	--	3	96.67	2.20	-	---	---	
50981C/50981	2	0	--	--	6	0.09	0.05	-	---	---	0	--	--	6	1.17	0.48	-	---	---	0	--	--	6	18.33	10.89	-	---	---	
Habitat Means			0.18	0.07		0.03	0.02		+			2.20	0.37		0.89	0.26		+			95.00	1.60		42.60	6.83		+		
Fisher's	Power		---		Power-50%		---	P-value	---	Power	---		Power-50%		Power-50%	---	P-value	---	Power	---		Power-50%		Power-50%	---	P-value	---	---	
Stouffer's	Power		---		Power-50%		---	P-value	---	Power	---		Power-50%		Power-50%	---	P-value	---	Power	---		Power-50%		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	1.00	0.00	-	o	1.000	2	83.75	13.75	3	14.17	4.17	-	+	0.018	
50981C/50221	3	1	0.25	--	0	--	--	-	---	---	1	3.00	--	0	--	--	-	---	---	1	100.00	--	0	--	--	-	---	---	
50981C/50981	3	1	0.25	--	5	0.20	0.08	-	---	---	1	3.00	--	5	2.00	0.55	-	---	---	1	100.00	--	5	52.00	17.45	-	---	---	
Habitat Means			0.17	0.00		0.10	0.04		o			2.33	0.00		1.50	0.27		o			94.60	13.80		33.10	10.85		-		
Fisher's	Power		---		Power-50%		---	P-value	---	Power	---		Power-50%		Power-50%	---	P-value	---	Power	---		Power-50%		Power-50%	---	P-value	---	---	
Stouffer's	Power		---		Power-50%		---	P-value	---	Power	---		Power-50%		Power-50%	---	P-value	---	Power	---		Power-50%		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.

Table C-5.403. Page 1, December 15, 1994

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	19.17	14.46	-	-	0.243	4	78.13	12.56	3	65.00	6.61	-	+	0.359	4	10.63	9.81	3	15.83	9.39	-	-	0.632	
50981C/50221	1	2	5.00	5.00	5	1.42	0.75	-	+	0.536	2	82.50	2.50	5	54.66	16.50	-	+	0.382	2	8.75	1.25	5	22.26	11.43	-	-	0.493	
50981C/50981	1	2	5.00	5.00	4	1.88	1.88	-	+	0.558	2	82.50	2.50	4	76.25	18.39	-	+	0.895	2	8.75	1.25	4	20.62	18.21	-	-	0.936	
Habitat Means			3.33	3.33		7.50	5.73		-			81.03	5.87		65.33	13.83		+			9.40	4.13		19.57	13.00		-		
Fisher's	Power		0.106		Power-50%		---	P-value	0.488	Power	0.286		Power-50%		Power-50%	1.000	P-value	0.213	Power	0.068		Power-50%		Power-50%	0.395	P-value	0.357		
Stouffer's	Power		0.040		Power-50%		---	P-value	0.491	Power	0.320		Power-50%		Power-50%	1.000	P-value	0.133	Power	0.107		Power-50%		Power-50%	0.428	P-value	0.236		
C15.1C/C15.1	2	5	0.50	0.50	4	25.63	10.23	-	-	0.023	5	4.50	1.84	4	61.58	6.69	-	-	0.000	5	50.50	18.95	4	12.82	7.41	-	-	0.117	
50981C/50221	2	0	--	--	3	0.83	0.83	-	---	---	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	96.67	2.20	-	---	---	
50981C/50981	2	0	--	--	6	0.42	0.42	-	---	---	0	--	--	6	73.75	16.36	-	---	---	0	--	--	6	2.08	0.77	-	---	---	
Habitat Means			0.50	0.50		8.93	3.80		-			4.50	1.80		45.13	7.70		-			50.50	19.00		37.20	3.47		+		
Fisher's	Power		---		Power-50%		---	P-value	---	Power	---		Power-50%		Power-50%	---	P-value	---	Power	---		Power-50%		Power-50%	---	P-value	---	---	
Stouffer's	Power		---		Power-50%		---	P-value	---	Power	---		Power-50%		Power-50%	---	P-value	---	Power	---		Power-50%		Power-50%	---	P-value	---	---	
C15.1C/C15.1	3	2	2.50	0.00	3	4.17	2.20	-	-	0.926	2	13.75	13.75	3	81.67	5.07	-	-	0.031	2	83.75	13.75	3	10.83	6.51	-	+	0.032	
50981C/50221	3	1	0.00	--	0	--	--	-	---	---	1	0.00	--	0	--	--	-	---	---	1	17.50	--	0	--	--	-	---	---	
50981C/50981	3	1	0.00	--	5	0.50	0.50	-	---	---	1	0.00	--	5	26.26	18.77	-	---	---	1	17.50	--	5	28.26	13.48	-	+	---	
Habitat Means			0.83	0.00		2.35	1.35		-			4.60	13.80		54.00	11.95		-			39.60	13.80		19.55	10.00		+		
Fisher's	Power		---		Power-50%		---	P-value	---	Power	---		Power-50%		Power-50%	---	P-value	---	Power	---		Power-50%		Power-50%	---	P-value	---	---	
Stouffer's	Power		---		Power-50%		---	P-value	---	Power	---		Power-50%		Power-50%	---	P-value	---	Power	---		Power-50%		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-5.403. Page 2, December 15, 1994

Table C-5.403. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Estuarine. June 1991. Overstory removed July 1990. (Continued.)

site Pair	Mvd	N	Annuals (A)								Ephemerals (AE)																	
			C	SE	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	3.75	3.75	3	0.00	0.00	-	+	0.391	4	3.75	3.75	3	0.00	0.00	-	+	0.391									
50981C/50221	1	2	3.75	3.75	5	2.34	1.46	-	+	0.753	2	3.75	3.75	5	2.34	1.46	-	+	0.753									
50981C/50981	1	2	3.75	3.75	4	1.25	0.72	-	+	0.616	2	3.75	3.75	4	1.25	0.72	-	+	0.616									
Habitat Means			3.80	3.80		1.20	0.73		-			3.80	3.80		1.20	0.73		+										
Fisher's	Power		0.335		Power-50%		---	P-value	0.271		Power	0.333		Power-50%		---	P-value	0.271		Power	---		Power-50%		---	P-value		
Stouffer's	Power		0.321		Power-50%		---	P-value	0.167		Power	0.316		Power-50%		---	P-value	0.167		Power	---		Power-50%		---	P-value		
C15.1C/C15.1	2	5	44.50	18.63	4	0.00	0.00	-	-	0.052	5	44.50	18.63	4	0.00	0.00	-	-	0.052									
50981C/50221	2	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---									
50981C/50981	2	0	--	--	6	10.83	8.98	-	---	---	0	--	--	6	10.83	8.98	-	---	---									
Habitat Means			44.50	18.60		3.60	3.00		+			44.50	18.60		3.60	3.00		-										
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		
C15.1C/C15.1	3	2	0.00	0.00	3	3.33	3.33	-	-	0.423	2	0.00	0.00	3	0.00	0.00	-	o	1.000									
50981C/50221	3	1	82.50	--	0	--	--	-	---	---	1	82.50	--	0	--	--	-	---	---									
50981C/50981	3	1	82.50	--	5	23.76	16.33	-	+	---	1	82.50	--	5	23.76	16.33	-	+	---									
Habitat Means			55.00	0.00		13.55	9.80		-			55.00	0.00		11.90	8.15		o										
Fisher's	Power		---		Power-50%		---	P-value	---	y <sup>z</sup>	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-5.403, Page 3, December 15, 1994

Table C-5.404. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai, Estuarine. June 1991. Overstory removed 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	2.50	2.50	3	0.00	0.00	-	+	0.391	4	0.63	0.63	3	0.00	0.00	-	+	0.391	4	0.63	0.63	3	0.00	0.00	-	+	0.391				
50981C/50221	1	2	0.00	0.00	5	2.34	1.46	-	-	0.179	2	0.00	0.00	5	0.50	0.50	-	-	0.374	2	0.00	0.00	5	0.50	0.50	-	-	0.374				
50981C/50981	1	2	0.00	0.00	4	1.25	0.72	-	-	0.182	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			0.83	0.83		1.20	0.73		-			0.20	0.20		0.17	0.17		-			0.20	0.20		0.17	0.17		-					
Fisher's	Power		0.259		Power-50%		---	P-value		0.122	Power	---		Power-50%		---	P-value		0.522 y	Power	---		Power-50%		---	P-value		0.522 y				
Stouffer's	Power		0.186		Power-50%		---	P-value		0.147	Power	---		Power-50%		---	P-value		0.493	Power	---		Power-50%		---	P-value		0.493				
C15.1C/C15.1	2	5	5.00	2.37	4	0.00	0.00	-	+	0.079	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	7.08	5.34	-	-	---	0	--	--	6	0.00	0.00	-	-	---	0	--	--	6	0.00	0.00	-	-	---				
Habitat Means			5.00	2.40		2.37	1.77		+			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		---	Power	---		Power-50%		---	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	2	0.00	0.00	3	0.00	0.00	-	o	1.000				
50981C/50221	3	1	80.00	--	0	--	--	-	-	---	1	80.00	--	0	--	--	-	-	---	1	80.00	--	0	--	--	-	-	---				
50981C/50981	3	1	80.00	--	5	2.76	1.50	-	+	---	1	80.00	--	5	1.50	1.50	-	+	---	1	80.00	--	5	1.50	1.50	-	+	---				
Habitat Means			53.33	0.00		1.40	0.75		o			53.33	0.00		0.75	0.75		o			53.33	0.00		0.75	0.75		o					
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) Kormannia, Monostroma, Uva and Ulvella.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.404. Page 1. December 15, 1994

Morphological Group: Fine Filamentous Greens											Cladophora sp. (AR)										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	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	5.42	5.42	-	-	---	0	--	--	6	0.00	0.00	-	-	---	0	--	--	6	0.00	0.00	-	-	---		
Habitat Means			0.00	0.00		1.80	1.80		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			
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		---		
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		---	Power	---		Power-50%		---	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-5.404. Page 2. December 15, 1994

Table C-5.404. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Estuarine. June 1991. Overstory removed 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	0.00	0.00	3	0.00	0.00	-	o	1.000	4	1.88	1.88	3	0.00	0.00	-	+	0.391	4	1.88	1.88	3	0.00	0.00	-	+	0.391	
50981C/50221	1	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	1.84	1.31	-	-	0.195	2	0.00	0.00	5	1.84	1.31	-	-	0.195	
50981C/50981	1	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	1.25	0.72	-	-	0.182	2	0.00	0.00	4	1.25	0.72	-	-	0.182	
Habitat Means			0.00	0.00		0.00	0.00		o			0.63	0.63		1.03	0.67		-			0.63	0.63		1.03	0.67		-		
Fisher's	Power		---		Power-50%		---		P-value	0.655	Power	0.143		Power-50%		---		P-value	0.129	Power	0.152		Power-50%		---		P-value	0.129	
Stouffer's	Power		---		Power-50%		---		P-value	0.500	Power	0.115		Power-50%		---		P-value	0.153	Power	0.116		Power-50%		---		P-value	0.153	
C15.1C/C15.1	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	5.00	2.37	4	0.00	0.00	-	+	0.079	5	5.00	2.37	4	0.00	0.00	-	+	0.079	
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	1.67	1.67	-	---	---	0	--	--	6	1.67	1.67	-	---	---	
Habitat Means			0.00	0.00		0.00	0.00		o			5.00	2.40		0.57	0.57		+			5.00	2.40		0.57	0.57		+		
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	---	Power-50%		---		P-value	---	Power
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	1.26	0.97	-	-	---	1	0.00	--	5	1.26	0.97	-	-	---	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.65	0.50		o			0.00	0.00		0.65	0.50		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	---	Power-50%		---		P-value	---	Power

(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 5.404. Page 3. December 13, 1994



Table C-5.405. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai, Estuarine. June 1991. Overstory removed 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	11.87	11.06	3	11.67	10.44	-	+	0.907	4	10.63	9.81	3	11.67	10.44	-	-	0.864	4	10.63	9.81	3	11.67	10.44	-	-	0.864				
50981C/50221	1	2	12.50	2.50	5	20.76	11.84	-	-	0.766	2	8.75	1.25	5	20.76	11.84	-	-	0.588	2	8.75	1.25	5	20.76	11.84	-	-	0.588				
50981C/50981	1	2	12.50	2.50	4	20.62	18.21	-	-	0.943	2	8.75	1.25	4	20.62	18.21	-	-	0.936	2	8.75	1.25	4	20.62	18.21	-	-	0.936				
Habitat Means			12.30	5.37		17.70	13.47		-			9.40	4.13		17.70	13.47		-			9.40	4.13		17.70	13.47		-					
Fisher's	Power		0.019		Power-50%	0.382	P-value	0.592		Power	0.024		Power-50%	0.404	P-value	0.464		Power	0.023		Power-50%	0.377	P-value	0.464		Power	0.040		Power-50%	0.406	P-value	0.324
Stouffer's	Power		0.026		Power-50%	0.429	P-value	0.442		Power	0.038		Power-50%	0.454	P-value	0.324		Power	0.040		Power-50%	0.406	P-value	0.324		Power	0.040		Power-50%	0.406	P-value	0.324
C15.1C/C15.1	2	5	90.00	3.26	4	12.82	7.41	-	+	0.000	5	50.50	18.95	4	12.82	7.41	-	+	0.117	5	50.50	18.95	4	12.82	7.41	-	+	0.117				
50981C/50221	2	0	--	--	3	96.67	2.20	-	-	---	0	--	--	3	96.67	2.20	-	-	---	0	--	--	3	96.67	2.20	-	-	---				
50981C/50981	2	0	--	--	6	11.25	7.60	-	-	---	0	--	--	6	2.08	0.77	-	-	---	0	--	--	6	2.08	0.77	-	-	---				
Habitat Means			90.00	3.30		40.27	5.73		+			50.50	19.00		37.20	3.47		+			50.50	19.00		37.20	3.47		+					
Fisher's	Power		---		Power-50%	---	P-value	---		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	---		Power	---		Power-50%	---	P-value	---
C15.1C/C15.1	3	2	83.75	13.75	3	10.83	6.51	-	+	0.032	2	83.75	13.75	3	10.83	6.51	-	+	0.032	2	83.75	13.75	3	10.83	6.51	-	+	0.032				
50981C/50221	3	1	2.50	--	0	--	--	-	-	---	1	0.00	--	0	--	--	-	-	---	1	0.00	--	0	--	--	-	-	---				
50981C/50981	3	1	2.50	--	5	49.26	16.50	-	-	---	1	0.00	--	5	28.26	13.48	-	-	---	1	0.00	--	5	28.26	13.48	-	-	---				
Habitat Means			29.60	13.80		30.05	11.50		+			27.93	13.80		19.55	10.00		+			27.93	13.80		19.55	10.00		+					
Fisher's	Power		---		Power-50%	---	P-value	---		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	---		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-5.405. Page 1. December 15, 1994

Adult <i>Fucus gardneri</i> (P) (> 2cm)											Juvenile <i>Fucus gardneri</i> (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	10.63	9.81	3	11.67	10.44	-	-	0.864	4	0.00	0.00	3	0.00	0.00	-	o	1.000	4	0.00	0.00	3	0.00	0.00	0.00	-	o	1.000
50981C/50221	1	2	8.75	1.25	5	20.60	11.89	-	-	0.599	2	0.00	0.00	5	0.16	0.16	-	-	0.374	2	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
50981C/50981	1	2	8.75	1.25	4	20.62	18.21	-	-	0.936	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000
Habitat Means			9.40	4.13		17.63	13.50		-			0.00	0.00		0.07	0.07		-			0.00	0.00		0.00	0.00	0.00		o	
Fisher's	Power		0.019		Power-50%	0.382	P-value		0.469		Power	---		Power-50%	---	P-value		0.409		Power	---		Power-50%	---	P-value		0.655		
Stouffer's	Power		0.035		Power-50%	0.428	P-value		0.327		Power	---		Power-50%	---	P-value		0.304		Power	---		Power-50%	---	P-value		0.500		
C15.1C/C15.1	2	5	50.50	18.95	4	12.82	7.41	-	+	0.117	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000
50981C/50221	2	0	--	--	3	96.67	2.20	-	-	---	0	--	--	3	0.00	0.00	-	-	---	0	--	--	3	0.00	0.00	0.00	-	-	---
50981C/50981	2	0	--	--	6	2.08	0.77	-	-	---	0	--	--	6	0.00	0.00	-	-	---	0	--	--	6	0.00	0.00	0.00	-	-	---
Habitat Means			50.50	19.00		37.20	3.47		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00	0.00		o	
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		---		
C15.1C/C15.1	3	2	83.75	13.75	3	10.83	6.51	-	-	0.032	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	0.00	0.00	3	0.00	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	28.26	13.48	-	-	---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.50	0.50	0.50	-	-	---
Habitat Means			27.93	13.80		19.55	10.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.25	0.25	0.25		o	
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-5.405. Page 2. December 15, 1994

Table C-5.405. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Estuarine. June 1991. Overstory removed July 1990. (Continued.)

Petalonia/Punctaria (AB) (b)										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
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			o			0.00	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			o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
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			---
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			o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
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.

(a) Genera not separated.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C 5.405. Page 3. December 15, 1994

Site Pair	Mvd	N	Morphological Group: Fine Filamentous Browns							Fine Filamentous Browns (AB) (b)																			
			C	SE	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	1.25	1.25	3	0.00	0.00	-	+	0.391	4	1.25	1.25	3	0.00	0.00	-	+	0.391										
50981C/50221	1	2	3.75	3.75	5	0.00	0.00	-	+	0.500	2	3.75	3.75	5	0.00	0.00	-	+	0.500										
50981C/50981	1	2	3.75	3.75	4	0.00	0.00	-	+	0.500	2	3.75	3.75	4	0.00	0.00	-	+	0.500										
Habitat Means			2.97	2.97		0.00	0.00		+			2.97	2.97		0.00	0.00		+											
Fisher's	Power		---		Power-50%	---	P-value			0.185	Power	---		Power-50%	---	P-value			0.185	Power	---		Power-50%	---	P-value				
Stouffer's	Power		---		Power-50%	---	P-value			0.101	Power	---		Power-50%	---	P-value			0.101	Power	---		Power-50%	---	P-value				
C15.1C/C15.1	2	5	39.50	18.24	4	0.00	0.00	-	+	0.084	5	39.50	18.24	4	0.00	0.00	-	+	0.084										
50981C/50221	2	0	--	--	3	0.00	0.00	-	---	---	0	--	--	3	0.00	0.00	-	---	---										
50981C/50981	2	0	--	--	6	9.17	7.35	-	---	---	0	--	--	6	9.17	7.35	-	---	---										
Habitat Means			39.50	18.20		3.07	2.47		+			39.50	18.20		3.07	2.47		+											
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				
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	2.50	--	0	--	--	-	---	---	1	2.50	--	0	--	--	-	---	---										
50981C/50981	3	1	2.50	--	5	21.00	15.03	-	---	---	1	2.50	--	5	21.00	15.03	-	---	---										
Habitat Means			1.67	0.00		10.50	7.50		o			1.67	0.00		10.50	7.50		o											
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, Botocarpus and Pilayella.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.405. Page 4. December 15, 1994

Table C-5.406. Algal Percent Cover. Rhodophyta. Cook Inlet/Renai. Estuarine. June 1991. Overstory removed 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	4.17	4.17	-	-	0.423	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	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		1.90	1.90	-				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	0.249	Power	---		Power-50%	---		P-value	0.655		Power	---		Power-50%	---		P-value	0.655		Power	---
Stouffer's		Power	---		Power-50%	---		P-value	0.165	Power	---		Power-50%	---		P-value	0.500		Power	---		Power-50%	---		P-value	0.500		Power	---
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	---	Power	---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---		Power	---
Stouffer's		Power	---		Power-50%	---		P-value	---	Power	---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---		Power	---
C15.1C/C15.1	3	2	0.00	0.00	3	3.33	3.33	-	-	0.423	2	0.00	0.00	3	3.33	3.33	-	-	0.423	2	0.00	0.00	3	0.00	0.00	-	o	1.000	
50981C/50221	3	1	17.50	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	
50981C/50981	3	1	17.50	--	5	0.00	0.00	-		---	1	0.00	--	5	0.00	0.00	-	o	---	1	0.00	--	5	0.00	0.00	-	o	---	
Habitat Means			11.67	0.00		1.65	1.65	-				0.00	0.00		1.65	1.65	-				0.00	0.00		0.00	0.00	-	o		
Fisher's		Power	---		Power-50%	---		P-value	---	Power	---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---		Power	---
Stouffer's		Power	---		Power-50%	---		P-value	---	Power	---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---		Power	---

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

Table C-5.406, Page 1, December 15, 1994

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	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	---	Power	---		Power-50%	---		P-value	---	Power	---		Power-50%	---		P-value	---	Power	---	
Stouffer's			Power	---		Power-50%	---		P-value	---	Power	---		Power-50%	---		P-value	---	Power	---		Power-50%	---		P-value	---	Power	---	
C15.1C/C15.1	3	2	0.00	0.00	3	3.33	3.33	-	-	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	
50981C/50221	3	1	0.00	--	0	--	--	-		---	1	17.50	--	0	--	--	-		---	1	0.00	--	0	--	--	-		---	
50981C/50981	3	1	0.00	--	5	0.00	0.00	-	o	---	1	17.50	--	5	0.00	0.00	-	+	---	1	0.00	--	5	0.00	0.00	-	o	---	
Habitat Means			0.00	0.00		1.65	1.65	-				11.67	0.00		0.00	0.00	-	o			0.00	0.00		0.00	0.00	-	o		
Fisher's			Power	---		Power-50%	---		P-value	---	Power	---		Power-50%	---		P-value	---	Power	---		Power-50%	---		P-value	---	Power	---	
Stouffer's			Power	---		Power-50%	---		P-value	---	Power	---		Power-50%	---		P-value	---	Power	---		Power-50%	---		P-value	---	Power	---	

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

Table C-5.406, Page 2, December 15, 1994

Table C-5.406. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Estuarine. June 1991. Overstory removed July 1990. (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	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-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-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		---	Power	---		---			
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	17.50	--	0	--	--	-	---	---	1	0.00	--	0	--	--	-	---	---				
50981C/50981	3	1	0.00	--	5	0.00	0.00	-	o	---	1	17.50	--	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			11.67	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o					
Fisher's			---		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		---	Power	---		---			

(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 5.406, Page 3, December 15, 1994

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	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	0.00		o			0.00	0.00	0.00	0.00	0.00		o			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		0.655	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	0.00		o			0.00	0.00	0.00	0.00	0.00		o			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		---	Power	---		---	
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	0.00		o			0.00	0.00	0.00	0.00	0.00		o			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		---	Power	---		---	

x At least one site pair p-value < 0.100 in 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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14) Cones 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-5.407. Algal Percent Cover, Invertebrates, Cook Inlet/Kenai, Estuarine, June 1991, Overstory removed 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	4	4	0.00	0.00	3	15.83	11.21	-	-	0.228	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				
50981C/50221	2	2	5.00	5.00	5	1.42	0.75	-	+	0.536	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	2	2	5.00	5.00	4	1.88	1.88	-	+	0.558	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			3.33	3.33		6.37	4.63		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.57	0.57		-					
Fisher's	Power		0.123		Power-50%		---		P-value	0.490 y	Power	---		Power-50%		---		P-value	0.655	Power	---		Power-50%		---		P-value	0.437				
Stouffer's	Power		0.043		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	17.50	6.29	-	-	0.061	5	0.50	0.50	4	0.63	0.63	-	-	0.879	5	0.00	0.00	4	4.38	2.13	-	-	0.080				
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	0.42	0.42	-	-	---	0	--	--	6	0.00	0.00	-	-	---	0	--	--	6	0.00	0.00	-	-	---				
Habitat Means			0.00	0.00		6.23	2.50		-			0.50	0.50		0.20	0.20		-			0.00	0.00		1.47	0.70		-					
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	---				
C15.1C/C15.1	3	2	2.50	0.00	3	4.17	2.20	-	-	0.926	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	0.50	0.50	-	-	---				
Habitat Means			0.83	0.00		2.10	1.10		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.25	0.25		o					
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-5.407. Page 1. December 15, 1994

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	1.67	1.67	-	-	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		0.57	0.57		-																										
Fisher's	Power		---		Power-50%	---				P-value	0.437	Power	---		Power-50%	---				P-value		Power	---		Power-50%	---		Power-50%	---		P-value				
Stouffer's	Power		---		Power-50%	---				P-value	0.322	Power	---		Power-50%	---				P-value		Power	---		Power-50%	---		Power-50%	---		P-value				
C15.1C/C15.1	2	5	0.00	0.00	4	3.13	2.37	-	-	0.216																									
50981C/50221	2	0	--	--	3	0.00	0.00	-	-	---																									
50981C/50981	2	0	--	--	6	0.00	0.00	-	-	---																									
Habitat Means			0.00	0.00		1.03	0.80		-																										
Fisher's	Power		---		Power-50%	---				P-value	---	Power	---		Power-50%	---				P-value	---	Power	---		Power-50%	---		Power-50%	---		P-value				
Stouffer's	Power		---		Power-50%	---				P-value	---	Power	---		Power-50%	---				P-value	---	Power	---		Power-50%	---		Power-50%	---		P-value				
C15.1C/C15.1	3	2	0.00	0.00	3	0.00	0.00	-	o	1.000																									
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		0.00	0.00		o																										
Fisher's	Power		---		Power-50%	---				P-value	---	Power	---		Power-50%	---				P-value	---	Power	---		Power-50%	---		Power-50%	---		P-value				
Stouffer's	Power		---		Power-50%	---				P-value	---	Power	---		Power-50%	---				P-value	---	Power	---		Power-50%	---		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-5.407. Page 2. December 15, 1994

**Table C-5.408. Algal Percent Cover. Substrates. Cook Inlet/Kenai. Estuarine. June 1991. Overstory removed 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.

Site Pair	Mvd	N	Rock								Mud								Sand											
			C	SE	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	78.13	12.56	3	65.00	6.61	-	+	0.359	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	82.50	2.50	5	54.66	16.50	-	+	0.382	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	19.34	18.31	-	-	0.299		
50981C/50981	1	2	82.50	2.50	4	76.25	18.39	-	+	0.895	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			81.03	5.87		65.33	13.83		+			0.00	0.00		0.00	0.00		o			0.00	0.00		6.43	6.10		-			
Fisher's			Power	0.294		Power-50%	1.000		P-value	0.213		Power	---		Power-50%	---		P-value	0.655		Power	0.000		Power-50%	---		P-value	0.362		
Stouffer's			Power	0.333		Power-50%	1.000		P-value	0.133		Power	---		Power-50%	---		P-value	0.500		Power	0.000		Power-50%	---		P-value	0.274		
C15.1C/C15.1	2	5	4.50	1.84	4	61.58	6.69	-	-	0.000	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	2.50	2.50	-	---	---		
50981C/50981	2	0	--	--	6	73.75	16.36	-	---	---	0	--	--	6	0.00	0.00	-	---	---	0	--	--	6	7.50	7.50	-	---	---		
Habitat Means			4.50	1.80		45.13	7.70		-			0.00	0.00		0.00	0.00		o			0.00	0.00		3.33	3.33		o			
Fisher's			Power	---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---		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	13.75	13.75	3	81.67	5.07	-	-	0.031	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	26.26	18.77	-	---	---	1	0.00	--	5	20.76	12.37	-	---	---	1	0.00	--	5	0.00	0.00	-	o	---		
Habitat Means			4.60	13.80		54.00	11.95		-			0.00	0.00		10.40	6.20		o			0.00	0.00		0.00	0.00		o			
Fisher's			Power	---		Power-50%	---		P-value	---		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 test.  
 z Only one site pair.

Table C-5.408, Page 1, December 15, 1994

			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	0.63	0.63	3	0.00	0.00	-	+	0.391	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			0.20	0.20		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	0.310		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	---		Power	---		Power-50%	---		P-value	---		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	---		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-5.408, Page 2, December 15, 1994

Table C-5.408. Algal Percent Cover, Totals and Seasonal Groups, Cook Inlet/Kenai, Estuarine, June 1991. Overstory removed July 1990. (Continued.)

Site Pair	Mvd	N	Sand and Mud								Total Substrate																		
			C	SE	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	78.13	12.56	3	65.00	6.61	-	-	0.359										
50981C/50221	1	2	0.00	0.00	5	19.34	18.31	-	-	0.299	2	82.50	2.50	5	74.00	10.62	-	-	0.693										
50981C/50981	1	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	82.50	2.50	4	76.25	18.39	-	-	0.895										
Habitat Means			0.00	0.00		6.43	6.10	-				81.03	5.87		71.77	11.87	-												
Fisher's	Power		0.000		Power-50%	---	P-value	0.362	Power	0.236		Power-50%	1.000	P-value	0.306	Power	---		Power-50%	---	P-value				Power-50%	---	P-value		
Stouffer's	Power		0.000		Power-50%	---	P-value	0.274	Power	0.252		Power-50%	1.000	P-value	0.202	Power	---		Power-50%	---	P-value				Power-50%	---	P-value		
C15.1C/C15.1	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	4.50	1.84	4	61.58	6.69	-	-	0.000										
50981C/50221	2	0	--	--	3	2.50	2.50	-	---	---	0	--	--	3	2.50	2.50	-	---	---										
50981C/50981	2	0	--	--	6	7.50	7.50	-	---	---	0	--	--	6	81.25	11.19	-	---	---										
Habitat Means			0.00	0.00		3.33	3.33	-	o			4.50	1.80		48.47	6.80	-												
Fisher's	Power		---		Power-50%	---	P-value	---	yz	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	---		Power-50%	---	P-value				Power-50%	---	P-value		
C15.1C/C15.1	3	2	0.00	0.00	3	0.00	0.00	-	o	1.000	2	13.75	13.75	3	81.67	5.07	-	-	0.031										
50981C/50221	3	1	0.00	--	0	--	--	-	---	---	1	0.00	--	0	--	--	-	---	---										
50981C/50981	3	1	0.00	--	5	20.76	12.37	-	---	---	1	0.00	--	5	47.00	17.56	-	---	---										
Habitat Means			0.00	0.00		10.40	6.20	-	o			4.60	13.80		64.35	11.35	-												
Fisher's	Power		---		Power-50%	---	P-value	---	yz	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	---		Power-50%	---	P-value				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-5.408, Page 3, December 15, 1994



Table C-5.409. Algal Percent Cover, Totals and Seasonal Groups, Kodiak/Alaska Peninsula, Sheltered Rocky, May 1991. Overstory removed 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.

Site Pair	Mvd	Algal Diversity Index (a)									Algal Taxa Richness (b)									Total Algae								
		N	C	SE	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	0.10	0.06	-	-	0.175	6	0.67	0.21	6	1.33	0.42	-	-	0.188	6	32.08	17.69	6	34.58	14.88	-	-	0.867
31252C/31248	1	6	0.00	0.00	5	0.06	0.06	-	-	0.374	6	0.50	0.22	5	0.60	0.40	-	-	0.824	6	7.50	4.92	5	7.00	5.33	-	-	0.909
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.50	0.22	6	0.00	0.00	-	+	0.076	6	7.50	4.92	6	0.00	0.00	-	-	0.121
99826C/33141	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.17	0.17	5	0.20	0.20	-	-	0.900	6	0.83	0.83	5	1.00	1.00	-	-	0.900
Habitat Means			0.00	0.00		0.04	0.03		-			0.46	0.21		0.53	0.26		-			11.98	7.07		10.65	5.30		-	
Fisher's		Power	0.052		Power-50%		---	P-value		0.202	Power	0.118		Power-50%		0.000	P-value		0.416x	Power	0.047		Power-50%		0.248	P-value		0.301
Stouffer's		Power	---		Power-50%		---	P-value		0.066	Power	0.017		Power-50%		0.000	P-value		0.295	Power	0.079		Power-50%		0.414	P-value		0.322
30196C/30196	2	6	0.13	0.06	5	0.37	0.08	-	-	0.038	6	1.83	0.70	5	3.80	0.92	-	-	0.117	6	60.00	19.14	5	54.50	13.66	-	+	0.947
31252C/31248	2	6	0.02	0.02	6	0.00	0.00	-	+	0.363	6	0.83	0.31	6	0.17	0.17	-	-	0.086	6	9.17	5.43	6	1.67	1.67	-	+	0.140
31252C/31252	2	6	0.02	0.02	6	0.00	0.00	-	+	0.363	6	0.83	0.31	6	0.17	0.17	-	-	0.086	6	9.17	5.43	6	2.50	2.50	-	+	0.190
99826C/33141	2	6	0.03	0.03	4	0.05	0.05	-	-	0.646	6	0.83	0.31	4	0.75	0.48	-	+	0.881	6	21.25	9.53	4	5.63	3.59	-	+	0.336
Habitat Means			0.05	0.03		0.10	0.03		-			1.08	0.41		1.22	0.43		-			24.92	9.85		16.07	5.38		+	
Fisher's		Power	0.229		Power-50%		0.303	P-value		0.201	Power	---		Power-50%		---	P-value		0.073 y	Power	---		Power-50%		---	P-value		0.057
Stouffer's		Power	0.048		Power-50%		0.430	P-value		0.168	Power	0.193		Power-50%		0.897	P-value		0.435	Power	0.482		Power-50%		0.530	P-value		0.100
30196C/30196	3	4	0.32	0.13	5	0.50	0.16	-	-	0.430	4	3.00	0.82	5	4.80	1.59	-	-	0.385	4	71.25	18.21	5	63.50	10.80	-	+	0.804
31252C/31248	3	6	0.08	0.08	5	0.04	0.04	-	+	0.730	6	0.83	0.65	5	0.60	0.40	-	-	0.779	6	11.25	9.83	5	5.00	3.06	-	+	0.790
31252C/31252	3	6	0.08	0.08	6	0.04	0.04	-	+	0.687	6	0.83	0.65	6	0.67	0.33	-	+	0.825	6	11.25	9.83	6	6.67	4.46	-	+	0.902
99826C/33141	3	1	0.00	--	3	0.13	0.13	-	-	---	1	1.00	--	3	1.33	0.88	-	-	---	1	2.50	--	3	34.17	32.92	-	-	---
Habitat Means			0.12	0.09		0.18	0.09		-			1.42	0.71		1.85	0.80		+			24.10	12.60		27.35	12.82		-	
Fisher's		Power	0.009		Power-50%		0.311	P-value		0.591 y	Power	0.011		Power-50%		0.506	P-value		0.665 y	Power	0.023		Power-50%		0.324	P-value		0.509 y
Stouffer's		Power	0.015		Power-50%		0.190	P-value		0.630	Power	0.020		Power-50%		0.645	P-value		0.688	Power	0.046		Power-50%		0.514	P-value		0.356

(a) Modified Shannon Index.

(b) Taxa richness calculations are explained in the methods.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.409. December 15, 1994

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	O	N	O	SE	CV	D	P
30196C/30196	1	6	17.92	7.23	6	0.42	0.42	-	+	0.020	6	50.00	15.88	6	65.00	14.73	-	-	0.416	6	32.08	17.69	6	29.17	15.46	-	+	0.974
31252C/31248	1	6	35.83	14.41	5	11.50	5.16	-	+	0.174	6	56.67	13.21	5	81.00	6.92	-	-	0.169	6	7.50	4.92	5	7.00	5.33	-	+	0.909
31252C/31252	1	6	35.83	14.41	6	71.25	10.34	-	-	0.074	6	56.67	13.21	6	28.75	10.34	-	+	0.129	6	7.50	4.92	6	0.00	0.00	-	+	0.121
99826C/33141	1	6	33.33	10.76	5	8.50	3.84	-	+	0.144	6	64.17	12.39	5	90.50	3.57	-	-	0.168	6	0.83	0.83	5	1.00	1.00	-	-	0.900
Habitat Means			30.70	11.70		22.92	4.93		+			56.90	13.68		66.33	8.88		-			11.98	7.07		9.30	5.45		+	
Fisher's			Power	---	Power-50%	---	P-value		0.013x	Power	0.155	Power-50%	0.599	P-value	0.106	Power	0.060	Power-50%	0.241	P-value	0.278							
Stouffer's			Power	---	Power-50%	---	P-value		0.024	Power	0.095	Power-50%	0.673	P-value	0.196	Power	0.102	Power-50%	0.405	P-value	0.267							
30196C/30196	2	6	1.25	0.85	5	0.50	0.50	-	+	0.565	6	38.33	18.09	5	36.50	15.36	-	+	0.978	6	29.17	18.06	5	46.50	10.08	-	-	0.291
31252C/31248	2	6	31.67	8.18	6	35.83	9.03	-	-	0.735	6	59.17	7.43	6	62.50	9.77	-	-	0.751	6	7.50	5.74	6	1.67	1.67	-	-	0.403
31252C/31252	2	6	31.67	8.18	6	72.92	4.35	-	-	0.002	6	59.17	7.43	6	24.58	5.22	-	+	0.004	6	7.50	5.74	6	2.50	2.50	-	+	0.482
99826C/33141	2	6	46.67	6.41	4	5.62	5.63	-	+	0.001	6	27.50	9.51	4	88.75	7.18	-	-	0.003	6	20.42	9.14	4	5.00	3.06	-	-	0.319
Habitat Means			27.85	5.93		28.70	4.88		+			46.05	10.60		53.10	9.40		-			16.15	9.65		13.92	4.35		-	
Fisher's			Power	---	Power-50%	---	P-value		0.019xy	Power	---	Power-50%	---	P-value	0.042x	Power	0.050	Power-50%	0.389	P-value	0.263							
Stouffer's			Power	0.028	Power-50%	0.991	P-value		0.716	Power	0.050	Power-50%	0.835	P-value	0.751	Power	0.049	Power-50%	0.607	P-value	0.554							
30196C/30196	3	4	0.00	0.00	5	0.50	0.50	-	-	0.374	4	28.75	18.21	5	33.50	9.17	-	-	0.889	4	31.87	11.52	5	41.00	5.40	-	-	0.423
31252C/31248	3	6	15.00	8.04	5	43.50	5.28	-	-	0.022	6	73.75	9.74	5	51.50	2.57	-	+	0.081	6	7.50	7.50	5	2.00	2.00	-	-	0.702
31252C/31252	3	6	15.00	8.04	6	42.92	13.28	-	-	0.121	6	73.75	9.74	6	50.42	12.56	-	-	0.157	6	7.50	7.50	6	6.25	4.55	-	+	0.886
99826C/33141	3	1	30.00	--	3	23.33	23.33	-	+	---	1	25.00	--	3	42.50	29.83	-	-	---	1	0.00	--	3	15.83	15.83	-	-	---
Habitat Means			15.00	5.33		27.55	10.60		-			50.35	12.53		44.48	13.55		-			11.73	8.83		16.27	6.95		-	
Fisher's			Power	---	Power-50%	---	P-value		0.006	Power	---	Power-50%	---	P-value	0.048	Power	0.003	Power-50%	0.301	P-value	0.650 y							
Stouffer's			Power	---	Power-50%	---	P-value		0.030	Power	0.102	Power-50%	0.761	P-value	0.113	Power	0.010	Power-50%	0.384	P-value	0.662							

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.409. Page 2. December 15, 1994

Table C-5.409. Algal Percent Cover. Totals and Seasonal Groups. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Overstory removed June 1990. (Continued.)

		Annuals (A)										Ephemerals (AE)																		
Site	Pair	Mod	M	C	SE	N	C	SE	CV	D	P	N	C	AE	N	C	SE	CV	D	P	N	C	SE	N	C	SE	CV	D	P	
30196C/30196	1	6	0.00	0.00	6	5.42	5.42	-	-	0.363	6	0.00	0.00	6	5.00	5.00	-	-	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		1.35	1.35		-			0.00	0.00		1.25	1.25		-												
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	30.83	18.83	5	8.00	7.39	-	+	0.362	6	15.00	13.56	5	1.00	1.00	-	+	0.387											
31252C/31248	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											
31252C/31252	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											
99826C/33141	2	6	0.83	0.83	4	0.63	0.63	-	+	0.971	6	0.83	0.83	4	0.00	0.00	-	+	0.363											
Habitat Means			8.75	5.50		2.15	2.00		-			3.95	3.60		0.25	0.25		-												
Fisher's	Power		---			Power-50%	---		P-value	0.077	Power	0.000			Power-50%	0.000		P-value	0.304	Power	---			Power-50%	---		P-value			
Stouffer's	Power		---			Power-50%	---		P-value	0.035	Power	0.001			Power-50%	0.001		P-value	0.222	Power	---			Power-50%	---		P-value			
30196C/30196	3	4	39.38	18.99	5	22.50	12.20	-	-	0.496	4	15.00	7.97	5	5.50	3.39	-	-	0.335											
31252C/31248	3	6	3.75	2.56	5	3.00	2.42	-	-	0.936	6	0.00	0.00	5	0.00	0.00	-	o	1.000											
31252C/31252	3	6	3.75	2.56	6	0.42	0.42	-	-	0.293	6	0.00	0.00	6	0.00	0.00	-	o	1.000											
99826C/33141	3	1	2.50	--	3	18.33	17.10	-	-	---	1	0.00	--	3	3.33	2.20	-	-	---											
Habitat Means			12.37	8.07		11.05	8.02		+			3.75	2.67		2.20	1.40		+												
Fisher's	Power		0.140			Power-50%	0.580		P-value	0.227	Power	0.019			Power-50%	0.011		P-value	0.386	Power	---			Power-50%	---		P-value			
Stouffer's	Power		0.212			Power-50%	0.721		P-value	0.168	Power	0.007			Power-50%	0.005		P-value	0.218	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-5.409. Page 3. December 15, 1994

Table C-5.410. Algal Percent Cover. Chlorophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Overstory removed 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	5.00	5.00	-	-	0.363	6	0.00	0.00	6	5.00	5.00	-	-	0.363	6	0.00	0.00	6	5.00	5.00	-	-	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		1.25	1.25	-				0.00	0.00		1.25	1.25	-				0.00	0.00		1.25	1.25	-		
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	15.00	13.56	5	2.50	2.50	-	+	0.468	6	1.25	1.25	5	1.00	1.00	-	+	0.987	6	1.25	1.25	5	1.00	1.00	-	+	0.987
31252C/31248	2	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	+	0.363
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	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	+	0.363
99826C/33141	2	6	0.83	0.83	4	0.00	0.00	-	+	0.363	6	0.83	0.83	4	0.00	0.00	-	+	0.363	6	0.83	0.83	4	0.00	0.00	-	+	0.363
Habitat Means			4.15	3.80		0.63	0.63	-				0.53	0.53		0.25	0.25	-	+			0.53	0.53		0.25	0.25	-		
Fisher's	Power		0.067		Power-50%	0.087		P-value	0.107		Power	---		Power-50%	---		P-value	0.474		Power	---		Power-50%	---		P-value	0.474	
Stouffer's	Power		---		Power-50%	---		P-value	0.081		Power	---		Power-50%	---		P-value	0.468		Power	---		Power-50%	---		P-value	0.468	
30196C/30196	3	4	15.00	7.97	5	7.50	5.00	-	-	0.442	4	1.88	1.20	5	5.50	3.39	-	-	0.648	4	1.88	1.20	5	5.50	3.39	-	-	0.648
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	3.33	2.20	-	-	---	1	0.00	---	3	3.33	2.20	-	-	---	1	0.00	---	3	3.33	2.20	-	-	---
Habitat Means			3.75	2.67		2.70	1.80	-	+			0.48	0.40		2.20	1.40	-				0.48	0.40		2.20	1.40	-		
Fisher's	Power		0.016		Power-50%	0.018		P-value	0.447		Power	0.004		Power-50%	0.025		P-value	0.540		Power	0.007		Power-50%	0.036		P-value	0.540	
Stouffer's	Power		0.006		Power-50%	0.007		P-value	0.268		Power	0.003		Power-50%	0.014		P-value	0.356		Power	0.003		Power-50%	0.017		P-value	0.356	

(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.

Table C 5.410. Page 1. December 13, 1994

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	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	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	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	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			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	0.698		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	1.50	1.50	-	-	0.374	6	0.00	0.00	5	1.50	1.50	-	-	0.374	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000	
31252C/31248	2	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	+	0.363	6	0.42	0.42	6	0.00	0.00	0.00	-	+	0.363	
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	-	+	0.363	6	0.42	0.42	6	0.00	0.00	0.00	-	+	0.363	
99826C/33141	2	6	0.00	0.00	4	0.00	0.00	-	+	1.000	6	0.00	0.00	4	0.00	0.00	-	+	1.000	6	0.00	0.00	4	0.00	0.00	0.00	-	+	1.000	
Habitat Means			0.20	0.20		0.38	0.38		+			0.00	0.00		0.38	0.38		-			0.20	0.20		0.00	0.00		0.00		-	
Fisher's	Power		---		Power-50%	---		P-value	0.375 y		Power	---		Power-50%	---		P-value	0.483		Power	---		Power-50%	---		P-value	0.295			
Stouffer's	Power		---		Power-50%	---		P-value	0.487		Power	---		Power-50%	---		P-value	0.237		Power	---		Power-50%	---		P-value	0.227			
30196C/30196	3	4	0.00	0.00	5	2.00	2.00	-	-	0.374	4	0.00	0.00	5	2.00	2.00	-	-	0.374	4	0.00	0.00	5	0.00	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	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	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	0.00	-	o	---	
Habitat Means			0.00	0.00		0.50	0.50		-			0.00	0.00		0.50	0.50		-			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	0.409		Power	---		Power-50%	---		P-value	0.655			
Stouffer's	Power		---		Power-50%	---		P-value	0.216		Power	---		Power-50%	---		P-value	0.236		Power	---		Power-50%	---		P-value	0.500			

Table C-5.410. Algal Percent Cover, Chlorophyta, Kodiak/Alaska Peninsula, Sheltered Rocky, May 1991, Overstory removed June 1990. (Continued.)

Site Pair	Mvd	N	Cladophora sp. (AE)								Ulothrix sp. (AE)								Urospora sp. (AE)									
			C	SE	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	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	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	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

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

Table C-5.410, Page 3, December 15, 1994

Morphological Group: Tubular and Saccate Greens										Blidingia/Enteromorpha (AB) (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	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	13.75	13.75	5	0.00	0.00	-	+	0.363	6	13.75	13.75	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			3.45	3.45		0.00	0.00		+		3.45	3.45		0.00	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	13.13	7.59	5	0.00	0.00	-	+	0.182	4	13.13	7.59	5	0.00	0.00	-	+	0.182										
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			3.28	2.53		0.00	0.00		+		3.28	2.53		0.00	0.00	0.00		+											
Fisher's	Power		0.060		Power-50%		0.066		P-value	0.272	Power	0.069		Power-50%		0.061		P-value	0.272	Power	---		Power-50%		---		P-value		
Stouffer's	Power		0.060		Power-50%		0.066		P-value	0.140	Power	0.069		Power-50%		0.061		P-value	0.140	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-5.410, Page 4, December 15, 1994

Table C-5.411. Algal Percent Cover. Phaeophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Overstory removed 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	32.08	17.69	6	29.17	15.47	-	+	0.971	6	32.08	17.69	6	28.75	15.58	-	-	0.954	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000			
31252C/31248	1	6	7.50	4.92	5	6.00	5.40	-	+	0.784	6	7.50	4.92	5	6.00	5.40	-	+	0.784	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000			
31252C/31252	1	6	7.50	4.92	6	0.00	0.00	-	+	0.121	6	7.50	4.92	6	0.00	0.00	-	+	0.121	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000			
99826C/33141	1	6	0.83	0.83	5	1.00	1.00	-	-	0.900	6	0.83	0.83	5	1.00	1.00	-	-	0.900	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000			
Habitat Means			11.98	7.07		9.05	5.48		+			11.98	7.07		8.95	5.50		+			0.00	0.00		0.00	0.00		o					
Fisher's	Power		0.072		Power-50%		0.237	P-value		0.257	Power	0.076		Power-50%		0.266	P-value		0.254	Power	---		Power-50%		---	P-value		0.698				
Stouffer's	Power		0.134		Power-50%		0.396	P-value		0.242	Power	0.147		Power-50%		0.416	P-value		0.236	Power	---		Power-50%		---	P-value		0.500				
30196C/30196	2	6	15.42	13.52	5	35.00	12.07	-	-	0.180	6	15.42	13.52	5	35.00	12.07	-	-	0.180	6	0.00	0.00	5	4.00	4.00	-	-	0.374				
31252C/31248	2	6	7.08	5.34	6	1.67	1.67	-	+	0.410	6	7.08	5.34	6	1.67	1.67	-	+	0.410	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000			
31252C/31252	2	6	7.08	5.34	6	0.00	0.00	-	+	0.199	6	7.08	5.34	6	0.00	0.00	-	+	0.199	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000			
99826C/33141	2	6	20.42	9.14	4	3.13	3.13	-	+	0.193	6	20.42	9.14	4	3.13	3.13	-	+	0.193	6	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000			
Habitat Means			12.50	8.30		9.95	4.22		+			12.50	8.30		9.95	4.22		+			0.00	0.00		1.00	1.00		-					
Fisher's	Power		0.135		Power-50%		0.487	P-value		0.124	Power	0.134		Power-50%		0.518	P-value		0.124	Power	---		Power-50%		---	P-value		0.483				
Stouffer's	Power		0.150		Power-50%		0.749	P-value		0.556	Power	0.144		Power-50%		0.755	P-value		0.556	Power	---		Power-50%		---	P-value		0.237				
30196C/30196	3	4	25.62	13.40	5	35.50	6.96	-	-	0.428	4	25.62	13.40	5	35.50	6.96	-	-	0.428	4	0.00	0.00	5	5.50	3.91	-	-	0.195				
31252C/31248	3	6	0.00	0.00	5	2.00	2.00	-	-	0.374	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				
31252C/31252	3	6	0.00	0.00	6	5.83	4.50	-	-	0.203	6	0.00	0.00	6	5.83	4.50	-	-	0.203	6	0.00	0.00	6	0.00	0.00	-	o	1.000				
99826C/33141	3	1	0.00	--	3	30.83	30.83	-	-	---	1	0.00	--	3	15.83	15.83	-	-	---	1	0.00	--	3	0.00	0.00	-	o	---				
Habitat Means			6.40	4.47		18.52	11.08		-			6.40	4.47		14.78	7.33		-			0.00	0.00		1.38	0.97		-					
Fisher's	Power		---		Power-50%		---	P-value		0.088	Power	---		Power-50%		---	P-value		0.088	Power	0.005		Power-50%		---	P-value		0.283				
Stouffer's	Power		---		Power-50%		---	P-value		0.065	Power	---		Power-50%		---	P-value		0.065	Power	0.001		Power-50%		---	P-value		0.148				

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

Table C-5.411, Page 1, December 15, 1994

Total <i>Fucus gardneri</i> (P)											Adult <i>Fucus gardneri</i> (P) (> 2cm)											Juvenile <i>Fucus gardneri</i> (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	32.08	17.69	6	28.75	15.58	-	+	0.954	6	31.67	17.84	6	28.33	15.71	-	+	0.990	6	0.42	0.42	6	0.42	0.42	-	o	1.000				
31252C/31248	1	6	7.50	4.92	5	6.00	5.40	-	+	0.784	6	3.75	2.39	5	5.50	4.90	-	+	0.857	6	3.75	3.28	5	0.50	0.50	-	+	0.441				
31252C/31252	1	6	7.50	4.92	6	0.00	0.00	-	+	0.121	6	3.75	2.39	6	0.00	0.00	-	+	0.176	6	3.75	3.28	6	0.00	0.00	-	+	0.233				
99826C/33141	1	6	0.83	0.83	5	1.00	1.00	-	-	0.900	6	0.83	0.83	5	0.00	0.00	-	-	0.363	6	0.00	0.00	5	1.00	1.00	-	-	0.374				
Habitat Means			11.98	7.07		8.95	5.50		-			10.02	5.85		8.45	5.15		-			2.00	1.75		0.48	0.48		-					
Fisher's	Power		0.077		Power-50%		0.248	P-value		0.254	Power	0.120		Power-50%		0.588	P-value		0.213	Power	0.011		Power-50%		0.050	P-value		0.332				
Stouffer's	Power		0.136		Power-50%		0.395	P-value		0.236	Power	0.247		Power-50%		0.753	P-value		0.317	Power	0.030		Power-50%		0.212	P-value		0.236				
30196C/30196	2	6	15.42	13.52	5	31.00	10.08	-	-	0.214	6	15.42	13.52	5	31.00	10.08	-	-	0.214	6	0.00	0.00	5	0.00	0.00	-	o	1.000				
31252C/31248	2	6	7.08	5.34	6	1.67	1.67	-	+	0.410	6	6.25	5.31	6	1.67	1.67	-	+	0.473	6	0.83	0.83	6	0.00	0.00	-	+	0.363				
31252C/31252	2	6	7.08	5.34	6	0.00	0.00	-	+	0.199	6	6.25	5.31	6	0.00	0.00	-	+	0.226	6	0.83	0.83	6	0.00	0.00	-	+	0.363				
99826C/33141	2	6	20.42	9.14	4	3.13	3.13	-	-	0.193	6	20.42	9.14	4	3.13	3.13	-	-	0.193	6	0.00	0.00	4	0.00	0.00	-	o	1.000				
Habitat Means			12.50	8.30		8.95	3.73		-			12.10	8.30		8.95	3.73		-			0.40	0.40		0.00	0.00		-					
Fisher's	Power		0.137		Power-50%		0.525	P-value		0.123	Power	0.110		Power-50%		0.434	P-value		0.145	Power	---		Power-50%		---	P-value		0.295				
Stouffer's	Power		0.157		Power-50%		0.735	P-value		0.525	Power	0.140		Power-50%		0.698	P-value		0.555	Power	---		Power-50%		---	P-value		0.227				
30196C/30196	3	4	25.62	13.40	5	30.00	7.07	-	-	0.655	4	25.00	12.79	5	30.00	7.07	-	-	0.617	4	0.63	0.63	5	0.00	0.00	-	-	0.391				
31252C/31248	3	6	0.00	0.00	5	2.00	2.00	-	-	0.374	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				
31252C/31252	3	6	0.00	0.00	6	5.83	4.50	-	-	0.203	6	0.00	0.00	6	5.83	4.50	-	-	0.203	6	0.00	0.00	6	0.00	0.00	-	o	1.000				
99826C/33141	3	1	0.00	--	3	15.83	15.83	-	-	---	1	0.00	--	3	15.83	15.83	-	-	---	1	0.00	--	3	0.00	0.00	-	o	---				
Habitat Means			6.40	4.47		13.40	7.35		-			6.25	4.27		13.40	7.35		-			0.15	0.20		0.00	0.00		-					
Fisher's	Power		0.250		Power-50%		0.023	P-value		0.118	Power	0.263		Power-50%		0.019	P-value		0.113	Power	---		Power-50%		---	P-value		0.419				
Stouffer's	Power		0.424		Power-50%		0.008	P-value		0.109	Power	0.423		Power-50%		0.008	P-value		0.101	Power	---		Power-50%		---	P-value		0.244				

Table C-5.411. Algal Percent Cover. Phaeophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Overstory removed 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	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.42	0.42	-	-	0.363
31252C/31248	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
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		0.13	0.13	-				0.00	0.00		0.10	0.10	-				0.00	0.00		0.10	0.10	-		
Fisher's	Power		---		Power-50%	---	P-value	0.483			Power	---		Power-50%	---	P-value	0.477			Power	---		Power-50%	---	P-value	0.477		
Stouffer's	Power		---		Power-50%	---	P-value	0.339			Power	---		Power-50%	---	P-value	0.232			Power	---		Power-50%	---	P-value	0.232		
30196C/30196	2	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/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		0.00	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	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	15.00	15.00	-	-	---	1	0.00	--	3	15.00	15.00	-	-	---
Habitat Means			0.00	0.00		0.00	0.00	-	o			0.00	0.00		3.75	3.75	-	o			0.00	0.00		3.75	3.75	-	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.

(x) Genera not separated.

(y) At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

(z) Direction of difference between habitat means is different than direction of overall tests.

(z) Only one site pair.

Table C-5.411, Page 3, December 15, 1994

Site Pair	Mvd	Morphological Group: Fine Filamentous Browns									Fine Filamentous Browns (AE) (b)									Morphological Group: Crustose 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
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	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	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	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) Flabellaria, Scytosiphon and Pilayella.

(x) At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

(y) Direction of difference between habitat means is different than direction of overall tests.

(z) Only one site pair.

Table C-5.411, Page 4, December 15, 1994

Table C-5.411. Algal Percent Cover. Phaeophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Overstory removed 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	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																					
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	0.00	0.00	-	o	1.000																					
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		0.00	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	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-5.411, Page 5, December 15, 1994

**Table C-5.412. Algal Percent Cover. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Overstory removed 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											Gigartineae 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	0.00	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				
31252C/31248	1	6	0.00	0.00	5	1.00	1.00	-	-	0.374	6	0.00	0.00	5	0.00	0.00	-	-	1.000	6	0.00	0.00	5	0.00	0.00	-	-	1.000				
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	-	1.000	6	0.00	0.00	6	0.00	0.00	-	-	1.000	6	0.00	0.00	6	0.00	0.00	-	-	1.000				
99826C/33141	1	6	0.00	0.00	5	0.00	0.00	-	-	1.000	6	0.00	0.00	5	0.00	0.00	-	-	1.000	6	0.00	0.00	5	0.00	0.00	-	-	1.000				
Habitat Means			0.00	0.00		0.35	0.35		-			0.00	0.00		0.10	0.10		-			0.00	0.00		0.10	0.10		-					
Fisher's	Power		---		Power-50%	---		P-value		0.299	Power	---		Power-50%	---		P-value		0.477	Power	---		Power-50%	---		P-value		0.477				
Stouffer's	Power		---		Power-50%	---		P-value		0.126	Power	---		Power-50%	---		P-value		0.232	Power	---		Power-50%	---		P-value		0.232				
30196C/30196	2	6	29.58	17.35	5	17.00	3.66	-	+	0.918	6	25.00	15.06	5	8.50	2.57	-	+	0.684	6	12.50	11.53	5	8.00	2.89	-	+	0.819				
31252C/31248	2	6	1.67	1.24	6	0.00	0.00	-	-	0.194	6	0.00	0.00	6	0.00	0.00	-	-	1.000	6	0.00	0.00	6	0.00	0.00	-	-	1.000				
31252C/31252	2	6	1.67	1.24	6	2.50	2.50	-	-	0.939	6	0.00	0.00	6	0.00	0.00	-	-	1.000	6	0.00	0.00	6	0.00	0.00	-	-	1.000				
99826C/33141	2	6	0.00	0.00	4	2.50	1.77	-	-	0.204	6	0.00	0.00	4	0.00	0.00	-	-	1.000	6	0.00	0.00	4	0.00	0.00	-	-	1.000				
Habitat Means			8.25	4.95		5.50	2.00		-			6.25	3.78		2.13	0.65		-			3.13	2.88		2.00	0.72		-					
Fisher's	Power		0.021		Power-50%	0.239		P-value		0.462	Power	0.000		Power-50%	0.001		P-value		0.613	Power	0.000		Power-50%	0.000		P-value		0.653				
Stouffer's	Power		0.014		Power-50%	0.483		P-value		0.284	Power	0.000		Power-50%	0.000		P-value		0.372	Power	0.000		Power-50%	0.000		P-value		0.427				
30196C/30196	3	4	30.63	14.34	5	20.50	7.09	-	-	0.697	4	24.37	11.52	5	11.50	3.02	-	+	0.474	4	0.00	0.00	5	4.00	2.92	-	+	0.199				
31252C/31248	3	6	11.25	9.83	5	3.00	2.42	-	+	0.617	6	0.00	0.00	5	0.00	0.00	-	-	1.000	6	0.00	0.00	5	0.00	0.00	-	-	1.000				
31252C/31252	3	6	11.25	9.83	6	0.83	0.53	-	+	0.385	6	0.00	0.00	6	0.00	0.00	-	-	1.000	6	0.00	0.00	6	0.00	0.00	-	-	1.000				
99826C/33141	3	1	2.50	--	3	0.00	0.00	-	+	---	1	0.00	--	3	0.00	0.00	-	-	---	1	0.00	--	3	0.00	0.00	-	-	---				
Habitat Means			13.92	11.30		6.07	2.50		+			6.10	3.83		2.88	0.75		+			0.00	0.00		1.00	0.72		-					
Fisher's	Power		0.122		Power-50%	0.309		P-value		0.256	Power	0.067		Power-50%	0.060		P-value		0.463	Power	0.003		Power-50%	---		P-value		0.286				
Stouffer's	Power		0.203		Power-50%	0.493		P-value		0.195	Power	0.029		Power-50%	0.030		P-value		0.281	Power	0.001		Power-50%	---		P-value		0.150				

(a) Chondrus, Irilidea, 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-5.412, Page 1, December 15, 1994

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	0.00	0.00	5	0.50	0.50	-	-	0.374	6	12.50	12.50	5	0.00	0.00	-	+	0.363	6	0.00	0.00	5	0.00	0.00	-	-	1.000
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	-	1.000	6	0.00	0.00	6	0.00	0.00	-	-	1.000	6	0.00	0.00	6	0.00	0.00	-	-	1.000
31252C/31252	2	6	0.00	0.00	6	0.00	0.00	-	-	1.000	6	0.00	0.00	6	0.00	0.00	-	-	1.000	6	0.00	0.00	6	0.00	0.00	-	-	1.000
99826C/33141	2	6	0.00	0.00	4	0.00	0.00	-	-	1.000	6	0.00	0.00	4	0.00	0.00	-	-	1.000	6	0.00	0.00	4	0.00	0.00	-	-	1.000
Habitat Means			0.00	0.00		0.13	0.13		-			3.13	3.13		0.00	0.00		+			0.00	0.00		0.00	0.00		0.00	o
Fisher's	Power		---		Power-50%	---		P-value		0.483	Power	---		Power-50%	---		P-value		0.477	Power	---		Power-50%	---		P-value		0.698
Stouffer's	Power		---		Power-50%	---		P-value		0.237	Power	---		Power-50%	---		P-value		0.232	Power	---		Power-50%	---		P-value		0.500
30196C/30196	3	4	11.25	7.67	5	6.50	2.81	-	+	0.802	4	13.12	13.12	5	0.00	0.00	-	+	0.391	4	0.00	0.00	5	0.00	0.00	-	-	1.000
31252C/31248	3	6	0.00	0.00	5	0.00	0.00	-	-	1.000	6	0.00	0.00	5	0.00	0.00	-	-	1.000	6	0.00	0.00	5	0.00	0.00	-	-	1.000
31252C/31252	3	6	0.00	0.00	6	0.00	0.00	-	-	1.000	6	0.00	0.00	6	0.00	0.00	-	-	1.000	6	0.00	0.00	6	0.00	0.00	-	-	1.000
99826C/33141	3	1	0.00	--	3	0.00	0.00	-	-	---	1	0.00	--	3	0.00	0.00	-	-	---	1	0.00	--	3	0.00	0.00	-	-	---
Habitat Means			2.83	2.57		1.63	0.70		+			3.28	4.37		0.00	0.00		+			0.00	0.00		0.00	0.00		0.00	o
Fisher's	Power		0.019		Power-50%	0.020		P-value		0.596	Power	---		Power-50%	---		P-value		0.419	Power	---		Power-50%	---		P-value		0.655
Stouffer's	Power		0.008		Power-50%	0.009		P-value		0.420	Power	---		Power-50%	---		P-value		0.244	Power	---		Power-50%	---		P-value		0.500



Table C-5.412. Algal Percent Cover. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Overstory removed 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	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	1.00	1.00	-	o	0.374	6	0.00	0.00	5	0.00	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	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	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00			o			0.00	0.00		0.25	0.25		-			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	0.339			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	6.50	5.34	-	o	0.296	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.67	1.24	6	0.00	0.00	-	o	0.194	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
31252C/31252	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.67	1.24	6	2.50	2.50	-	o	0.939	6	0.00	0.00	6	0.00	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	2.50	1.77	-	o	0.204	6	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00			o			1.05	0.80		2.88	2.40		-			0.00	0.00		0.00	0.00		0.00	o	
Fisher's	Power		---		Power-50%	---		P-value	0.698	Power	0.041		Power-50%	---		P-value	0.258			Power	---		Power-50%	---		P-value	0.698		
Stouffer's	Power		---		Power-50%	---		P-value	0.500	Power	0.024		Power-50%	---		P-value	0.361			Power	---		Power-50%	---		P-value	0.500		
30196C/30196	3	4	0.00	0.00	5	1.00	1.00	-	o	0.374	4	0.00	0.00	5	1.50	1.50	-	o	0.374	4	0.00	0.00	5	1.00	1.00	1.00	-	o	0.374
31252C/31248	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	9.58	8.18	5	2.50	2.50	-	o	0.523	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	9.58	8.18	6	0.42	0.42	-	o	0.303	6	0.00	0.00	6	0.00	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	0.00	-	o	---
Habitat Means			0.00	0.00		0.25	0.25		-			4.80	5.47		1.10	1.10		-			0.00	0.00		0.25	0.25		-		
Fisher's	Power		---		Power-50%	---		P-value	0.409	Power	0.013		Power-50%	---		P-value	0.333			Power	---		Power-50%	---		P-value	0.409		
Stouffer's	Power		---		Power-50%	---		P-value	0.236	Power	0.016		Power-50%	---		P-value	0.520			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-5.412. Page 3. December 15, 1994

Site Pair	Mvd	Endocladia muricata (P)								Gloiopeltis furcata (A)								Neorhodomela/Rhodomela (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
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	1.00	1.00	-	o	0.374
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			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	0.483	
Stouffer's	Power		---		Power-50%	---		P-value	0.500	Power	---		Power-50%	---		P-value	0.500			Power	---		Power-50%	---		P-value	0.339	
30196C/30196	2	6	0.83	0.83	5	0.50	0.50	-	+	0.911	6	0.00	0.00	5	0.50	0.50	-	-	0.374	6	0.00	0.00	5	5.00	5.00	-	-	0.374
31252C/31248	2	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	0.42	0.42	6	0.00	0.00	-	-	0.363
31252C/31252	2	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	0.42	0.42	6	2.50	2.50	-	-	0.589
99826C/33141	2	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	1.88	1.88	-	-	0.391
Habitat Means			0.20	0.20		0.13	0.13		+			0.65	0.65		0.28	0.28		+			0.20	0.20		2.35	2.35		-	
Fisher's	Power		---		Power-50%	---		P-value	0.677	Power	---		Power-50%	---		P-value	0.466			Power	---		Power-50%	---		P-value	0.305	
Stouffer's	Power		---		Power-50%	---		P-value	0.464	Power	---		Power-50%	---		P-value	0.512			Power	---		Power-50%	---		P-value	0.292	
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	2.08	1.36	5	2.50	2.50	-	-	0.899	6	6.25	6.25	5	0.00	0.00	-	-	0.363
31252C/31252	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	2.08	1.36	6	0.00	0.00	-	+	0.178	6	6.25	6.25	6	0.42	0.42	-	+	0.490
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			1.05	0.93		0.63	0.63		+			3.15	4.20		0.10	0.10		+	
Fisher's	Power		---		Power-50%	---		P-value	0.655	Power	0.106		Power-50%	---		P-value	0.284			Power	---		Power-50%	---		P-value	0.268	
Stouffer's	Power		---		Power-50%	---		P-value	0.500	Power	0.132		Power-50%	---		P-value	0.368			Power	---		Power-50%	---		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-5.412. Page 4. December 15, 1994

Table C-5.412. Algal Percent Cover, Rhodophyta, Kodiak/Alaska Peninsula, Sheltered Rocky, May 1991. Overstory removed June 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	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	0.50	0.50	-	-	0.374	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	2.50	2.50	5	0.50	0.50	-	-	0.671	
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		0.13	0.13		-			0.00	0.00		0.00	0.00		o			0.63	0.63		0.13	0.13		-		
Fisher's	Power		---		Power-50%		---		P-value	0.483	Power	---		Power-50%		---		P-value	0.698	Power	---		Power-50%		---		P-value	0.609	
Stouffer's	Power		---		Power-50%		---		P-value	0.237	Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.366	
30196C/30196	3	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	4	0.00	0.00	5	1.00	0.61	-	-	0.178	
31252C/31248	3	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	
31252C/31252	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	
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			0.65	0.87		0.00	0.00		-			0.00	0.00		0.13	0.13		-			0.00	0.00		0.25	0.15		-		
Fisher's	Power		---		Power-50%		---		P-value	0.223	Power	---		Power-50%		---		P-value	0.409	Power	---		Power-50%		---		P-value	0.268	
Stouffer's	Power		---		Power-50%		---		P-value	0.226	Power	---		Power-50%		---		P-value	0.236	Power	---		Power-50%		---		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-5.412, Page 5, December 15, 1994

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	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%	---		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%	---		Power-50%	---		P-value	0.500	
30196C/30196	2	6	2.50	2.50	5	0.50	0.50	-	+	0.671	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	0.00	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			0.63	0.63		0.13	0.13		+			0.20	0.20		0.00	0.00		+			0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%	---		P-value	0.609	Power	---		Power-50%	---		P-value	0.477	Power	---		Power-50%	---		Power-50%	---		P-value	0.698	
Stouffer's		Power	---		Power-50%	---		P-value	0.366	Power	---		Power-50%	---		P-value	0.232	Power	---		Power-50%	---		Power-50%	---		P-value	0.500	
30196C/30196	3	4	0.00	0.00	5	1.00	0.61	-	-	0.178	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	1.67	1.67	5	0.50	0.50	-	+	0.747	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	1.67	6	0.42	0.42	-	+	0.659	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	2.50	--	3	0.00	0.00	-	+	---	1	0.00	--	3	0.00	0.00	-	o	---	
Habitat Means			0.00	0.00		0.25	0.15		-			1.48	1.13		0.23	0.23		+			0.00	0.00		0.00	0.00		o		
Fisher's		Power	0.000		Power-50%	---		P-value	0.268	Power	---		Power-50%	---		P-value	0.473	Power	---		Power-50%	---		Power-50%	---		P-value	0.655	
Stouffer's		Power	0.000		Power-50%	---		P-value	0.138	Power	---		Power-50%	---		P-value	0.379	Power	---		Power-50%	---		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-5.412, Page 6, December 15, 1994

Table C-5.412. Algal Percent Cover, Rhodophyta, Kodiak/Alaska Peninsula, Sheltered Rocky, May 1991. Overstory removed 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	0.00	-	o	1.000	6	0.00	0.00	6	0.00	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	0.00	-	o	1.000	6	0.00	0.00	5	0.00	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	0.00	-	o	1.000	6	0.00	0.00	6	0.00	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	0.00	-	o	1.000	6	0.00	0.00	5	0.00	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	0.00		o			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		0.698		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	0.83	0.83	5	0.00	0.00	0.00	-	+	0.363	6	0.42	0.42	5	1.50	1.50	-	-	0.629	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000	
31252C/31248 2	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
31252C/31252 2	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
99826C/33141 2	6	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000
Habitat Means		0.20	0.20		0.00	0.00	0.00		+			0.10	0.10		0.38	0.38	-				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		0.594			Power	---		Power-50%	---	P-value		0.698			
Stouffer's	Power	---		Power-50%	---	P-value		0.232		Power	---		Power-50%	---	P-value		0.349			Power	---		Power-50%	---	P-value		0.500			
30196C/30196 3	4	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000	4	6.25	6.25	5	6.50	3.84	-	-	0.719	4	0.00	0.00	5	1.00	1.00	-	-	0.374		
31252C/31248 3	6	1.67	1.67	5	0.50	0.50	0.50	-	+	0.747	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
31252C/31252 3	6	1.67	1.67	6	0.42	0.42	0.42	-	+	0.639	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
99826C/33141 3	1	2.50	--	3	0.00	0.00	0.00	-	+	---	1	0.00	--	3	0.00	0.00	0.00	-	o	---	1	0.00	--	3	0.00	0.00	0.00	-	o	---
Habitat Means		1.48	1.13		0.23	0.23	0.23		+			1.57	2.10		1.63	0.95	-				0.00	0.00		0.25	0.25		-			
Fisher's	Power	---		Power-50%	---	P-value		0.473		Power	0.003		Power-50%	---	P-value		0.567			Power	---		Power-50%	---	P-value		0.409			
Stouffer's	Power	---		Power-50%	---	P-value		0.379		Power	0.001		Power-50%	---	P-value		0.386			Power	---		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.

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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	1	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																			
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	0.42	0.42	5	1.50	1.50	-	-	0.629																			
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			0.10	0.10		0.38	0.38		-																				
Fisher's	Power		---		Power-50%		---	P-value	0.594	Power		---		Power-50%		---	P-value			Power		---		Power-50%		---	P-value		
Stouffer's	Power		---		Power-50%		---	P-value	0.349	Power		---		Power-50%		---	P-value			Power		---		Power-50%		---	P-value		
30196C/30196	3	4	6.25	6.25	5	5.50	3.00	-	+	0.771																			
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			1.57	2.10		1.38	0.75		+																				
Fisher's	Power		0.000		Power-50%		---	P-value	0.585	Power		---		Power-50%		---	P-value			Power		---		Power-50%		---	P-value		
Stouffer's	Power		0.000		Power-50%		---	P-value	0.407	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-5.412, Page 8, December 15, 1994

Table C-5.413. Algal Percent Cover. Invertebrates. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Overstory removed 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					
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	17.92	7.23	6	0.00	0.00	-	+	0.016	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000				
31252C/31248	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	35.42	14.40	5	11.50	5.16	-	+	0.179	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000				
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	35.42	14.40	6	70.42	10.15	-	-	0.076	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000				
99826C/33141	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	32.08	10.40	5	8.50	3.84	-	+	0.152	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000				
Habitat Means			0.00	0.00		0.00	0.00		o		30.20	11.60		22.60	4.80		-				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	0.012*	Power	---		Power-50%		---	P-value	0.021	Power	---		Power-50%		---	P-value	0.698
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value	0.021	Power	---		Power-50%		---	P-value	0.021	Power	---		Power-50%		---	P-value	0.500
30196C/30196	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.42	0.42	5	0.50	0.50	-	-	0.900	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000				
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	28.75	8.18	6	34.58	8.65	-	-	0.609	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000				
31252C/31252	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	28.75	8.18	6	69.17	5.19	-	-	0.003	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000				
99826C/33141	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	33.33	10.48	4	5.00	5.00	-	+	0.067	6	0.42	0.42	4	0.00	0.00	0.00	-	-	0.363				
Habitat Means			0.00	0.00		0.00	0.00		o		22.83	6.83		27.32	4.85		-				0.10	0.10		0.00	0.00		0.00	-					
Fisher's	Power		---		Power-50%		---	P-value	0.698	Power	---		Power-50%		---	P-value	0.029*	Power	---		Power-50%		---	P-value	0.102	Power	---		Power-50%		---	P-value	0.477
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power	---	0.082	Power-50%		0.559	P-value	0.102	Power	---		Power-50%		---	P-value	0.102	Power	---		Power-50%		---	P-value	0.474
30196C/30196	3	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	4	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000				
31252C/31248	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	14.58	8.07	5	42.50	5.48	-	-	0.023	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000				
31252C/31252	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	14.58	8.07	6	41.67	2.56	-	-	0.118	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000				
99826C/33141	3	1	0.00	--	3	0.00	0.00	-	o	---	1	0.00	--	3	22.50	22.50	-	-	---	1	0.00	--	3	0.83	0.83	0.83	-	-	---				
Habitat Means			0.00	0.00		0.00	0.00		o		7.30	5.40		26.80	10.28		-				0.00	0.00		0.20	0.20		0.20	o					
Fisher's	Power		---		Power-50%		---	P-value	0.655	Power	---		Power-50%		---	P-value	0.006	Power	---		Power-50%		---	P-value	0.010	Power	---		Power-50%		---	P-value	0.655
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value	0.010	Power	---		Power-50%		---	P-value	0.010	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-5.413, Page 1, December 15, 1994

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	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	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	0.00	0.00	-	+	0.363	6	0.00	0.00	5	0.00	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	0.83	0.83	-	-	0.814	6	0.00	0.00	6	0.00	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	0.56	5	0.00	0.00	-	+	0.076	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000				
Habitat Means			0.00	0.00		0.00	0.00		o			0.53	0.35		0.30	0.30		+			0.00	0.00		0.00	0.00		0.00	o					
Fisher's	Power		---		Power-50%		---	P-value	0.698	Power	---	0.173	Power-50%		0.222	P-value	0.180	Power	---		Power-50%		---	P-value	0.698	Power	---		Power-50%		---	P-value	0.500
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power	---	0.101	Power-50%		0.284	P-value	0.603	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	0.83	0.53	5	0.00	0.00	-	+	0.175	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000				
31252C/31248	2	6	0.42	0.42	6	0.83	0.53	-	-	0.549	6	2.50	1.71	6	0.42	0.42	-	+	0.340	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000				
31252C/31252	2	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	2.50	1.71	6	3.75	1.41	-	-	0.302	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000				
99826C/33141	2	6	12.50	5.88	4	0.63	0.63	-	+	0.125	6	0.42	0.42	4	0.00	0.00	-	+	0.363	6	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000				
Habitat Means			3.33	1.68		0.35	0.28		-			1.55	1.08		1.05	0.45		+			0.00	0.00		0.00	0.00		0.00	o					
Fisher's	Power		0.076		Power-50%		0.045	P-value	0.203	Power	---	0.218	Power-50%		0.676	P-value	0.144	Power	---		Power-50%		---	P-value	0.698	Power	---		Power-50%		---	P-value	0.500
Stouffer's	Power		0.103		Power-50%		0.104	P-value	0.438	Power	---	0.276	Power-50%		0.801	P-value	0.108	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	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	0.50	0.50	-	-	0.374	6	0.42	0.42	5	0.00	0.00	0.00	-	-	0.363				
31252C/31252	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.83	0.83	-	-	0.363	6	0.42	0.42	6	0.00	0.00	0.00	-	-	0.363				
99826C/33141	3	1	30.00	--	3	0.00	0.00	-	-	---	1	0.00	--	3	0.00	0.00	-	o	---	1	0.00	--	3	0.00	0.00	0.00	-	o	---				
Habitat Means			7.50	0.00		0.13	0.13		-			0.00	0.00		0.33	0.33		-			0.20	0.27		0.00	0.00		0.00	-					
Fisher's	Power		---		Power-50%		---	P-value	0.409	Power	---	---	Power-50%		---	P-value	0.227	Power	---		Power-50%		---	P-value	0.223	Power	---		Power-50%		---	P-value	0.226
Stouffer's	Power		---		Power-50%		---	P-value	0.339	Power	---	---	Power-50%		---	P-value	0.229	Power	---		Power-50%		---	P-value	0.226	Power	---		Power-50%		---	P-value	0.226

Table C-5.413. Algal Percent Cover. Invertebrates. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Overstory removed June 1990. (Continued.)

Cnidaria										Mollusca											
Site No.	Year	N	C	SE	CV	D	P			N	C	SE	N	C	SE	CV	D	P			
30196C/30196	1	6	0.00	0.00	0	0.00	0.00	-	o	1.000	6	0.00	0.00	5	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	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	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			o			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%	
Stouffer's	Power		---		Power-50%	---	P-value	0.500		Power	---		Power-50%	---	P-value	0.500		Power	---	Power-50%	
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			o			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%	
Stouffer's	Power		---		Power-50%	---	P-value	0.500		Power	---		Power-50%	---	P-value	0.500		Power	---	Power-50%	
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	0.42	0.42	-	o	0.363		
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			o			0.00	0.00		0.10	0.10		-			
Fisher's	Power		---		Power-50%	---	P-value	0.655		Power	---		Power-50%	---	P-value	0.403		Power	---	Power-50%	
Stouffer's	Power		---		Power-50%	---	P-value	0.500		Power	---		Power-50%	---	P-value	0.373		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-5.414. Algal Percent Cover. Substrates. Kodiak/Alaska Peninsula, Sheltered Rocky, May 1991. Overstory removed 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.

Site Pair	Mvd	N	Rock								Mud								Sand									
			C	SE	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	50.00	15.88	6	65.00	14.73	-	-	0.416	6	0.00	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	56.67	13.21	5	81.00	6.92	-	-	0.169	6	0.00	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	56.67	13.21	6	28.75	10.34	-	+	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
99826C/33141	1	6	64.17	12.39	5	90.50	3.57	-	-	0.168	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
Habitat Means			56.90	13.68		66.33	8.88		-			0.00	0.00		0.00	0.00		o			0.20	0.20		0.00	0.00		+	
Fisher's	Power		0.165		Power-50%	0.626	P-value		0.106		Power	---		Power-50%	---	P-value		0.698		Power	---		Power-50%	---	P-value		0.477	
Stouffer's	Power		0.099		Power-50%	0.708	P-value		0.196		Power	---		Power-50%	---	P-value		0.500		Power	---		Power-50%	---	P-value		0.474	
30196C/30196	2	6	38.33	18.09	5	36.50	15.36	-	-	0.978	6	0.00	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	59.17	7.43	6	62.50	9.77	-	-	0.751	6	0.00	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	59.17	7.43	6	24.58	5.22	-	-	0.004	6	0.00	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	27.50	9.51	4	88.75	7.18	-	-	0.003	6	2.92	1.87	4	0.00	0.00	-	+	0.176	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			46.05	10.60		53.10	9.40		-			0.72	0.48		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%	---	P-value		0.042x		Power	0.016		Power-50%	0.011	P-value		0.341		Power	---		Power-50%	---	P-value		0.698	
Stouffer's	Power		0.049		Power-50%	0.826	P-value		0.751		Power	0.001		Power-50%	0.002	P-value		0.461		Power	---		Power-50%	---	P-value		0.500	
30196C/30196	3	4	28.75	18.21	5	33.50	9.17	-	-	0.889	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	73.75	9.74	5	51.50	2.57	-	+	0.081	6	0.00	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	73.75	9.74	6	50.42	12.56	-	+	0.157	6	0.00	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	25.00	--	3	42.50	29.83	-	-	---	1	37.50	--	3	0.00	0.00	-	+	---	1	0.00	--	3	0.00	0.00	-	o	---
Habitat Means			50.35	12.53		44.48	13.55		-			9.38	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 y		Power	---		Power-50%	---	P-value		0.655	
Stouffer's	Power		0.095		Power-50%	0.772	P-value		0.113		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 5.414. Page 1. December 15, 1994

Site Pair	Mvd	Shell Fragments								Filamentous Diatoms								Zostera/Phyllospadix										
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	--	--	--	--	--	--	CV	--	--
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	0.83	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
Habitat Means			0.20	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	---			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	2	6	0.00	0.00	5	8.50	8.50	-	-	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/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	1.67	1.67	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			0.42	0.42		2.13	2.13		+			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	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
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	5.00	--	3	0.00	0.00	-	-	---	1	0.00	--	3	0.00	0.00	-	o	---	1	0.00	--	3	0.00	0.00	-	o	---
Habitat Means			1.25	0.00		0.00	0.00		o			0.00	0.00		0.63	0.63		-			0.00	0.00		0.00	0.00		o	
Fisher's	Power	---			Power-50%	---		P-value	0.655 y		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	0.236		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-5.414. Page 2. December 15, 1994

Table C-5.414. Algal Percent Cover. Totals and Seasonal Groups. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Overstory removed June 1990. (Continued.)

Sand and Mud											Total Substrate																			
Site Pair	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		
30196C/30196	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	56.67	13.21	5	81.00	6.92	-	-	0.169											
31252C/31248	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	56.67	13.21	6	28.75	10.34	-	+	0.129											
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	56.67	13.21	6	28.75	10.34	-	+	0.129											
99826C/33141	1	6	1.67	1.67	5	0.00	0.00	-	+	0.363	6	65.83	11.27	5	90.50	3.57	-	-	0.170											
Habitat Means			0.42	0.42		0.00	0.00					57.30	13.40		66.33	8.88														
Fisher's	Power		---		Power-50%		---	P-value	0.477		Power	0.148		Power-50%		0.603	P-value	0.107	Power	---		Power-50%		---	P-value					
Stouffer's	Power		---		Power-50%		---	P-value	0.474		Power	0.086		Power-50%		0.690	P-value	0.196	Power	---		Power-50%		---	P-value					
30196C/30196	2	6	0.00	0.00	5	8.50	8.50	-	-	0.374	6	38.33	18.09	5	45.00	13.99	-	-	0.769											
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	59.17	7.43	6	62.50	9.77	-	-	0.751											
31252C/31252	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	59.17	7.43	6	24.58	5.22	-	+	0.004											
99826C/33141	2	6	4.58	3.06	4	0.00	0.00	-	+	0.180	6	32.08	7.37	4	88.75	7.18	-	-	0.001											
Habitat Means			1.15	0.78		2.13	2.13					47.20	10.08		55.23	9.05														
Fisher's	Power		0.001		Power-50%		0.002	P-value	0.434 y		Power	---		Power-50%		---	P-value	0.018x	Power	---		Power-50%		---	P-value					
Stouffer's	Power		0.000		Power-50%		0.000	P-value	0.732		Power	0.089		Power-50%		0.890	P-value	0.655	Power	---		Power-50%		---	P-value					
30196C/30196	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	28.75	18.21	5	33.50	9.17	-	-	0.889											
31252C/31248	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	73.75	9.74	5	51.50	2.57	-	-	0.081											
31252C/31252	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	73.75	9.74	6	50.42	12.56	-	+	0.157											
99826C/33141	3	1	42.50	--	3	0.00	0.00	-	+	---	1	67.50	--	3	42.50	29.83	-	+	---											
Habitat Means			10.63	0.00		0.00	0.00		o			60.98	12.53		44.48	13.55														
Fisher's	Power		---		Power-50%		---	P-value	0.655 y		Power	---		Power-50%		---	P-value	0.048	Power	---		Power-50%		---	P-value					
Stouffer's	Power		---		Power-50%		---	P-value	0.500		Power	0.097		Power-50%		0.747	P-value	0.113	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-5.414. Page 3. November 15, 1994

Table C-5.415. Algal Percent Cover, Totals and Seasonal Groups, Kodiak/Alaska Peninsula, Sheltered Rocky, May 1991. Overstory removed 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	0.09	0.06	6	0.06	0.06	-	+	0.698	6	1.00	0.68	6	1.00	0.45	-	o	1.000	6	17.08	15.17	6	25.83	15.45	-	-	0.640	
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	4.17	3.69	6	8.75	7.35	-	-	0.691	
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	4.17	3.69	6	0.00	0.00	-	+	0.239	
99826C/33141	1	6	0.00	0.00	4	0.07	0.07	-	-	0.391	6	0.17	0.17	4	1.00	0.41	-	-	0.062	6	1.67	1.67	4	21.88	10.58	-	-	0.042	
Habitat Means			0.02	0.01		0.03	0.03		-			0.46	0.32		0.58	0.27		-			6.80	6.08		14.13	8.38		-		
Fisher's	Power		0.004		Power-50%		0.010	P-value	0.548	Power	0.219		Power-50%		0.675	P-value	0.272	Power	0.096		Power-50%		0.337	P-value	0.135				
Stouffer's	Power		0.002		Power-50%		0.001	P-value	0.598	Power	0.065		Power-50%		0.795	P-value	0.636	Power	0.060		Power-50%		0.661	P-value	0.386				
30196C/30196	2	4	0.10	0.10	5	0.27	0.12	-	-	0.312	4	1.25	0.63	5	3.00	1.14	-	-	0.253	4	18.75	9.92	5	66.00	13.98	-	-	0.038	
31252C/31248	2	5	0.06	0.06	6	0.00	0.00	-	+	0.374	5	0.60	0.40	6	0.33	0.21	-	-	0.550	5	27.00	19.06	6	12.08	9.05	-	-	0.514	
31252C/31252	2	5	0.06	0.06	6	0.05	0.05	-	+	0.917	5	0.60	0.40	6	0.33	0.33	-	-	0.618	5	27.00	19.06	6	0.83	0.83	-	-	0.251	
99826C/33141	2	6	0.10	0.06	3	0.04	0.04	-	+	0.550	6	1.27	0.31	3	1.33	0.33	-	-	0.749	6	18.75	8.77	3	21.67	5.46	-	-	0.606	
Habitat Means			0.08	0.07		0.09	0.05		+			0.90	0.43		1.25	0.50		-			22.90	14.23		25.15	7.35		-		
Fisher's	Power		0.030		Power-50%		0.310	P-value	0.450	Power	0.134		Power-50%		0.724	P-value	0.486	Power	0.202		Power-50%		0.414	P-value	0.191				
Stouffer's	Power		0.036		Power-50%		0.446	P-value	0.625	Power	0.089		Power-50%		0.829	P-value	0.313	Power	0.079		Power-50%		0.544	P-value	0.159				
30196C/30196	3	4	0.35	0.12	4	0.38	0.16	-	-	0.878	4	3.00	0.71	4	4.25	1.49	-	-	0.478	4	43.13	19.80	4	70.00	17.53	-	-	0.327	
31252C/31248	3	5	0.00	0.00	6	0.07	0.07	-	-	0.363	5	0.20	0.20	6	0.83	0.48	-	-	0.285	5	1.50	1.50	6	16.67	14.25	-	-	0.329	
31252C/31252	3	5	0.00	0.00	6	0.06	0.05	-	-	0.289	5	0.20	0.20	6	1.00	0.52	-	-	0.214	5	1.50	1.50	6	20.83	14.98	-	-	0.252	
99826C/33141	3	4	0.13	0.10	2	0.27	0.27	-	-	0.566	4	1.75	0.48	2	3.00	2.00	-	-	0.428	4	53.13	15.56	2	56.25	41.25	-	-	0.835	
Habitat Means			0.12	0.06		0.20	0.14		-			1.29	0.40		2.27	1.12		-			24.80	9.60		40.95	22.03		-		
Fisher's	Power		0.201		Power-50%		0.066	P-value	0.177	Power	---		Power-50%		---	P-value	0.074	Power	0.251		Power-50%		0.110	P-value	0.108				
Stouffer's	Power		0.282		Power-50%		0.079	P-value	0.166	Power	---		Power-50%		---	P-value	0.058	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.

Table C-5.415. Page 1, December 15, 1994

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	31.42	11.52	6	4.58	3.19	-	-	0.032	6	47.50	12.94	6	69.58	14.78	-	-	0.240	6	17.08	15.17	6	25.83	15.45	-	-	0.640
31252C/31248	1	6	14.67	9.12	6	22.08	7.08	-	-	0.631	6	79.17	10.03	6	68.75	8.08	-	+	0.447	6	4.17	3.69	6	8.75	7.35	-	-	0.691
31252C/31252	1	6	14.67	9.12	6	62.08	11.39	-	-	0.009	6	79.17	10.03	6	37.92	11.39	-	+	0.019	6	4.17	3.69	6	0.00	0.00	-	+	0.239
99826C/33141	1	6	4.25	2.39	4	10.00	4.45	-	-	0.438	6	90.00	6.06	4	68.12	9.86	-	+	0.072	6	0.00	0.00	4	21.88	10.58	-	-	0.091
Habitat Means			14.78	8.02		24.70	6.55		-			73.98	9.75		61.10	11.05		+			6.38	5.65		14.13	8.38		-	
Fisher's			Power	---		Power-50%	---		P-value	0.040	Power	---		Power-50%	---		P-value	0.014	Power	0.059		Power-50%	0.103		P-value	0.211		
Stouffer's			Power	0.143		Power-50%	0.560		P-value	0.697	Power	0.230		Power-50%	0.990		P-value	0.352	Power	0.042		Power-50%	0.425		P-value	0.395		
30196C/30196	2	4	11.13	6.56	5	1.00	0.61	-	-	0.003	4	63.12	13.05	5	33.00	13.77	-	+	0.162	4	18.75	9.92	5	52.50	13.99	-	-	0.091
31252C/31248	2	5	71.50	19.26	6	52.08	13.17	-	-	0.356	5	2.50	1.94	6	35.83	11.86	-	-	0.008	5	27.00	19.06	6	12.08	9.05	-	-	0.514
31252C/31252	2	5	71.50	19.26	6	95.42	4.58	-	-	0.196	5	2.50	1.94	6	3.75	3.75	-	-	0.902	5	27.00	19.06	6	0.83	0.83	-	+	0.251
99826C/33141	2	6	44.83	7.82	3	11.67	6.01	-	+	0.047	6	37.08	6.04	3	66.67	8.70	-	-	0.031	6	18.75	8.77	3	20.83	4.64	-	-	0.636
Habitat Means			41.97	13.25		40.05	6.10		+			26.30	5.73		34.83	9.55		-			22.90	14.23		21.55	7.13		-	
Fisher's			Power	---		Power-50%	---		P-value	0.002	Power	---		Power-50%	---		P-value	0.007	Power	0.168		Power-50%	0.390		P-value	0.316		
Stouffer's			Power	---		Power-50%	---		P-value	0.007	Power	0.193		Power-50%	0.725		P-value	0.379	Power	0.064		Power-50%	0.526		P-value	0.248		
30196C/30196	3	4	1.00	0.00	4	0.63	0.63	-	-	0.391	4	56.88	19.80	4	29.38	17.86	-	-	0.300	4	34.38	21.44	4	35.63	14.05	-	-	0.963
31252C/31248	3	5	91.50	1.94	6	75.83	14.36	-	+	0.120	5	1.00	0.61	6	7.50	2.74	-	-	0.103	5	0.00	0.00	6	3.33	2.11	-	-	0.175
31252C/31252	3	5	91.50	1.94	6	63.75	13.58	-	+	0.026	5	1.00	0.61	6	15.00	2.81	-	-	0.000	5	0.00	0.00	6	20.42	14.58	-	-	0.156
99826C/33141	3	4	21.13	11.24	2	7.50	7.50	-	+	0.466	4	1.25	1.25	2	36.25	33.75	-	-	0.126	4	25.62	11.47	2	25.00	10.00	-	-	0.845
Habitat Means			51.53	3.75		36.93	9.03		+			15.05	5.58		22.05	14.30		-			15.00	8.23		21.07	10.20		-	
Fisher's			Power	---		Power-50%	---		P-value	0.024	Power	---		Power-50%	---		P-value	0.000	Power	0.283		Power-50%	0.029		P-value	0.129		
Stouffer's			Power	0.290		Power-50%	0.896		P-value	0.189	Power	---		Power-50%	---		P-value	0.092	Power	0.381		Power-50%	0.029		P-value	0.123		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.415. Page 2, December 15, 1994



Table C 5.415. Algal Percent Cover. Totals and Seasonal Groups. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Overstory removed August 1990. (Continued.)

St	Pair	Mvd	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	
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	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			0.42	0.42		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	13.50	7.81	-	-	0.108	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	0.83	0.83	-	-	0.423	6	0.00	0.00	3	0.00	0.00	-	o	1.000											
Habitat Means			0.00	0.00		3.58	2.15		-			0.00	0.00		0.00	0.00		o												
Fisher's	Power	0.018				Power-50%	---	P-value	0.164		Power	---			Power-50%	---	P-value	0.698		Power	---				Power-50%	---	P-value			
Stouffer's	Power	---				Power-50%	---	P-value	0.088		Power	---			Power-50%	---	P-value	0.500		Power	---				Power-50%	---	P-value			
30196C/30196	3	4	8.75	5.45	4	34.38	22.42	-	+	0.332	4	5.00	4.21	4	2.50	2.50	-	+	0.623											
31252C/31248	3	5	1.50	1.50	6	13.33	12.84	-	-	0.473	5	0.00	0.00	6	12.92	12.92	-	-	0.363											
31252C/31252	3	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											
99826C/33141	3	4	27.50	16.17	2	31.25	31.25	-	-	0.993	4	17.50	16.68	2	8.75	8.75	-	+	0.869											
Habitat Means			9.83	6.18		19.85	16.72		-			5.62	5.22		6.05	6.05		+												
Fisher's	Power	0.066				Power-50%	0.090	P-value	0.375		Power	0.001			Power-50%	0.002	P-value	0.671	y	Power	---			Power-50%	---	P-value				
Stouffer's	Power	0.088				Power-50%	0.254	P-value	0.172		Power	0.000			Power-50%	0.002	P-value	0.507		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 5.415. Page 3. December 15, 1994

**Table C-5.416. Algal Percent Cover. Chlorophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Overstory removed 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; 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		
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	0.00	0.00		o		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	0.698				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	0.50	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	0.00	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		0.13	0.13		-		0.00	0.00		0.00	0.00	0.00		o		0.00	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	0.237		Power	---		Power-50%	---	P-value	0.500				Power	---		Power-50%	---	P-value	0.500			
30196C/30196	3	4	5.00	4.21	4	4.37	4.37	-	-	0.798	4	0.63	0.63	4	2.50	2.50	-	-	0.666	4	0.63	0.63	4	2.50	2.50	-	-	0.666	
31252C/31248	3	5	0.00	0.00	6	7.92	7.92	-	-	0.363	5	0.00	0.00	6	7.92	7.92	-	-	0.363	5	0.00	0.00	6	7.92	7.92	-	-	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	17.50	16.68	2	8.75	8.75	-	+	0.869	4	17.50	16.68	2	8.75	8.75	-	+	0.869	4	17.50	16.68	2	8.75	8.75	-	+	0.869	
Habitat Means			5.62	5.22		5.28	5.28		+		4.53	4.33		4.80	4.80	4.80		-		4.53	4.33		4.80	4.80	4.80		-		
Fisher's	Power		0.000		Power-50%	0.002	P-value	0.726		Power	0.016		Power-50%	0.000	P-value	0.420				Power	0.015		Power-50%	0.000	P-value	0.420			
Stouffer's	Power		0.000		Power-50%	0.003	P-value	0.582		Power	0.039		Power-50%	0.000	P-value	0.224				Power	0.034		Power-50%	0.000	P-value	0.224			

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

Table C-5.416, Page 1, December 15, 1994

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	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	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	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	0.00	-	o	1.000							
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			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	0.698				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				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	0.50	0.50	-	-	0.374	4	0.00	0.00	5	0.00	0.00	0.00	-	-	0.1000							
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	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	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	0.00	-	o	1.000							
Habitat Means			0.00	0.00		0.13	0.13		-			0.00	0.00		0.13	0.13		-			0.00	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				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				Power	---		Power-50%	---	P-value	0.500
30196C/30196	3	4	4.37	4.37	4	1.88	1.88	-	-	0.774	4	0.00	0.00	4	1.88	1.88	-	-	0.391	4	0.00	0.00	4	0.00	0.00	0.00	-	-	0.1000							
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	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	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	0.00	-	o	1.000							
Habitat Means			1.10	1.10		0.48	0.48		+			0.00	0.00		0.48	0.48		-			0.00	0.00		0.00	0.00	0.00		o								
Fisher's	Power		---		Power-50%	---	P-value	0.641		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	0.409		Power	---		Power-50%	---	P-value	0.245				Power	---		Power-50%	---	P-value	0.500				Power	---		Power-50%	---	P-value	0.500

Table C-5.416. Algal Percent Cover. Chlorophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Overstory removed 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	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	0.00	-	o	1.000	6	0.00	0.00	6	0.00	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	0.00	-	o	1.000	6	0.00	0.00	6	0.00	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	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			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	0.698		Power	---		Power-50%		---	P-value	0.698		Power	---		Power-50%		---	P-value	0.698		Power	---	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		Power	---	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	0.00	-	o	1.000	4	0.00	0.00	5	0.00	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	0.00	-	o	1.000	5	0.00	0.00	6	0.00	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	0.00	-	o	1.000	5	0.00	0.00	6	0.00	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	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			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	0.698		Power	---		Power-50%		---	P-value	0.698		Power	---		Power-50%		---	P-value	0.698		Power	---	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		Power	---	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	0.00	-	o	1.000	4	4.37	4.37	4	0.00	0.00	0.00	-	o	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	0.00	-	o	1.000	5	0.00	0.00	6	0.00	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	0.00	-	o	1.000	5	0.00	0.00	6	0.00	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	0.00	-	o	1.000	4	0.00	0.00	2	0.00	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00	0.00		o			1.10	1.10		0.00	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		Power	---	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		Power	---	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-5.416: Page 3, December 15, 1994

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	
30296C/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	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			

(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-5.416: Page 4, December 15, 1994

Table C-5.417. Algal Percent Cover. Phaeophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Overstory removed 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	14.17	13.19	6	22.08	14.06	-	-	0.576	6	14.17	13.19	6	22.08	14.06	-	-	0.576	6	0.00	0.00	6	0.00	0.00	0.00	0.00	-	o	1.000			
31252C/31248 1	6	4.17	3.69	6	8.75	7.35	-	-	0.691	6	4.17	3.69	6	8.75	7.35	-	-	0.691	6	0.00	0.00	6	0.00	0.00	0.00	0.00	-	o	1.000			
31252C/31252 1	6	4.17	3.69	6	0.00	0.00	-	-	0.239	6	4.17	3.69	6	0.00	0.00	-	-	0.239	6	0.00	0.00	6	0.00	0.00	0.00	0.00	-	o	1.000			
99826C/33141 1	6	0.00	0.00	4	17.50	8.84	-	-	0.090	6	0.00	0.00	4	17.50	8.84	-	-	0.090	6	0.00	0.00	4	0.00	0.00	0.00	0.00	-	o	1.000			
Habitat Means		5.65	5.15		12.10	7.58	-				5.65	5.15		12.10	7.58	-				0.00	0.00		0.00	0.00	0.00	0.00	-	o				
Fisher's	Power	0.063		Power-50%	0.092	P-value	0.197				Power	0.063		Power-50%	0.111	P-value	0.197			Power	---		Power-50%	---	P-value	0.698						
Stouffer's	Power	0.048		Power-50%	0.416	P-value	0.367				Power	0.047		Power-50%	0.425	P-value	0.367			Power	---		Power-50%	---	P-value	0.500						
30196C/30196 2	4	11.88	7.02	5	17.50	14.58	-	-	0.919	4	11.88	7.02	5	17.50	14.58	-	-	0.919	4	0.00	0.00	5	0.00	0.00	0.00	0.00	-	o	1.000			
31252C/31248 2	5	24.00	18.88	6	12.08	9.05	-	+	0.578	5	24.00	18.88	6	12.08	9.05	-	+	0.578	5	0.00	0.00	6	0.00	0.00	0.00	0.00	-	o	1.000			
31252C/31252 2	5	24.00	18.88	6	0.00	0.00	-	+	0.238	5	24.00	18.88	6	0.00	0.00	-	+	0.238	5	0.00	0.00	6	0.00	0.00	0.00	0.00	-	o	1.000			
99826C/33141 2	6	12.50	5.59	3	15.83	8.70	-	-	0.784	6	12.50	5.59	3	15.83	8.70	-	-	0.784	6	0.00	0.00	3	0.00	0.00	0.00	0.00	-	o	1.000			
Habitat Means		18.10	12.60		11.35	8.10	-				18.10	12.60		11.35	8.10	-				0.00	0.00		0.00	0.00	0.00	0.00	-	o				
Fisher's	Power	0.083		Power-50%	0.405	P-value	0.345				Power	0.082		Power-50%	0.411	P-value	0.345			Power	---		Power-50%	---	P-value	0.698						
Stouffer's	Power	0.111		Power-50%	0.581	P-value	0.281				Power	0.110		Power-50%	0.566	P-value	0.281			Power	---		Power-50%	---	P-value	0.500						
30196C/30196 3	4	21.88	11.43	4	18.12	12.52	-	-	0.758	4	21.88	11.43	4	18.12	12.52	-	+	0.758	4	0.00	0.00	4	2.50	2.50	2.50	2.50	-	-	0.391			
31252C/31248 3	5	0.00	0.00	6	8.33	6.34	-	-	0.208	5	0.00	0.00	6	8.33	6.34	-	-	0.175	5	0.00	0.00	6	0.00	0.00	0.00	0.00	-	o	1.000			
31252C/31252 3	5	0.00	0.00	6	19.17	14.52	-	-	0.167	5	0.00	0.00	6	19.17	14.52	-	-	0.167	5	0.00	0.00	6	0.00	0.00	0.00	0.00	-	o	1.000			
99826C/33141 3	4	16.88	9.76	2	45.00	30.00	-	-	0.289	4	16.88	9.76	2	25.00	10.00	-	-	0.535	4	0.00	0.00	2	0.00	0.00	0.00	0.00	-	o	1.000			
Habitat Means		9.70	5.30		22.65	15.88	-				9.70	5.30		16.40	9.78	-				0.00	0.00		0.63	0.63	0.63	0.63	-					
Fisher's	Power	---		Power-50%	---	P-value	0.074				Power	---		Power-50%	---	P-value	0.098			Power	---		Power-50%	---	P-value	0.492						
Stouffer's	Power	0.372		Power-50%	0.042	P-value	0.181				Power	0.314		Power-50%	0.049	P-value	0.178			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-5.417. Page 1. December 15, 1994

Total <i>Fucus gardneri</i> (P)											Adult <i>Fucus gardneri</i> (P) (> 2cm)											Juvenile <i>Fucus gardneri</i> (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	14.17	13.19	6	22.08	14.06	-	-	0.576	6	13.75	13.26	6	20.42	14.03	-	-	0.738	6	0.42	0.42	6	1.67	0.83	-	-	0.224					
31252C/31248 1	6	4.17	3.69	6	8.75	7.35	-	-	0.691	6	3.75	3.75	6	8.75	7.35	-	-	0.570	6	0.42	0.42	6	0.00	0.00	-	-	0.363					
31252C/31252 1	6	4.17	3.69	6	0.00	0.00	-	+	0.239	6	3.75	3.75	6	0.00	0.00	-	+	0.363	6	0.42	0.42	6	0.00	0.00	-	-	0.363					
99826C/33141 1	6	0.00	0.00	4	17.50	8.84	-	-	0.090	6	0.00	0.00	4	14.37	9.49	-	-	0.198	6	0.00	0.00	4	3.13	1.88	-	-	0.185					
Habitat Means		5.65	5.15		12.10	7.58	-				5.35	5.23		10.90	7.73	-				0.30	0.30		1.20	0.68	-							
Fisher's	Power	0.056		Power-50%	0.092	P-value	0.197				Power	0.035		Power-50%	0.003	P-value	0.299			Power	0.126		Power-50%	---	P-value	0.269						
Stouffer's	Power	0.042		Power-50%	0.413	P-value	0.367				Power	0.067		Power-50%	0.044	P-value	0.381			Power	0.044		Power-50%	---	P-value	0.371						
30196C/30196 2	4	11.88	7.02	5	17.50	14.58	-	-	0.919	4	11.88	7.02	5	17.00	14.63	-	-	0.942	4	0.00	0.00	5	0.50	0.50	-	-	0.374					
31252C/31248 2	5	24.00	18.88	6	12.08	9.05	-	+	0.578	5	24.00	18.88	6	12.08	9.05	-	+	0.578	5	0.00	0.00	6	0.00	0.00	-	-	0.1000					
31252C/31252 2	5	24.00	18.88	6	0.00	0.00	-	+	0.238	5	24.00	18.88	6	0.00	0.00	-	+	0.238	5	0.00	0.00	6	0.00	0.00	-	-	0.1000					
99826C/33141 2	6	12.50	5.59	3	15.83	8.70	-	-	0.784	6	12.50	5.59	3	15.83	8.70	-	-	0.784	6	0.00	0.00	3	0.00	0.00	-	-	0.1000					
Habitat Means		18.10	12.60		11.35	8.10	-				18.10	12.60		11.23	8.10	-	+			0.00	0.00		0.13	0.13	-							
Fisher's	Power	0.078		Power-50%	0.412	P-value	0.345				Power	0.087		Power-50%	0.392	P-value	0.341			Power	---		Power-50%	---	P-value	0.483						
Stouffer's	Power	0.105		Power-50%	0.581	P-value	0.281				Power	0.115		Power-50%	0.553	P-value	0.273			Power	---		Power-50%	---	P-value	0.237						
30196C/30196 3	4	21.88	11.43	4	15.62	13.13	-	+	0.607	4	21.88	11.43	4	15.62	13.13	-	+	0.607	4	0.00	0.00	4	0.00	0.00	-	-	0.1000					
31252C/31248 3	5	0.00	0.00	6	3.33	2.11	-	-	0.175	5	0.00	0.00	6	3.33	2.11	-	-	0.175	5	0.00	0.00	6	0.00	0.00	-	-	0.1000					
31252C/31252 3	5	0.00	0.00	6	19.17	14.52	-	-	0.167	5	0.00	0.00	6	19.17	14.52	-	-	0.167	5	0.00	0.00	6	0.00	0.00	-	-	0.1000					
99826C/33141 3	4	16.88	9.76	2	25.00	10.00	-	-	0.535	4	16.88	9.76	2	25.00	10.00	-	-	0.535	4	0.00	0.00	2	0.00	0.00	-	-	0.1000					
Habitat Means		9.70	5.30		15.78	9.92	-				9.70	5.30		15.78	9.92	-				0.00	0.00		0.00	0.00	-	-	0.1000					
Fisher's	Power	0.242		Power-50%	0.030	P-value	0.105				Power	0.233		Power-50%	0.031	P-value	0.105			Power	---		Power-50%	---	P-value	0.698						
Stouffer's	Power	0.229		Power-50%	0.030	P-value	0.224				Power	0.210		Power-50%	0.027	P-value	0.224			Power	---		Power-50%	---	P-value	0.500						

Table C-5.417. Algal Percent Cover. Phaeophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Overstory removed August 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	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	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	20.00	20.00	-	-	0.500	4	0.00	0.00	2	20.00	20.00	-	-	0.500	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		5.00	5.00		-			0.00	0.00		5.00	5.00			-	
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	0.480		Power	---		Power-50%	---		P-value	0.480		

(a) Dead Fucus plants or stipes without blades.

x Genera not separated.

y At least one site pair: p-value &lt; 0.100 in opposite direction of overall tests.

z Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.417, Page 3, December 15, 1994

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	6	0.00	0.00	-	o	1.000	6	0.00	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	-	6	0.00	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	5.00	5.00	-	-	0.363	5	0.00	0.00	6	5.00	5.00	-	-	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		1.25	1.25		-			0.00	0.00		1.25	1.25		-			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) Elachista, Ectocarpus and Pilayella.

x At least one site pair: p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.417, Page 4, December 15, 1994

Table C-5.417. Algal Percent Cover. Phaeophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Overstory removed August 1990. (Continued.)

		Ralfsia/Petroderma (P) (a)																													
Site Pair	Method	N	C	SE	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-5.417. Page 5. December 15, 1994

Table C-5.418. Algal Percent Cover. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Overstory removed 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								Gigartinales 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	2.92	2.08	6	3.75	3.75	-	-	0.886	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
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	1.67	1.67	4	4.37	4.37	-	-	0.630	6	0.00	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			1.15	0.95		2.05	2.05		-			0.10	0.10		0.10	0.10		o			0.10	0.10		0.10	0.10		o	
Fisher's	Power		0.003		Power-50%	0.011		P-value		0.568	Power	---		Power-50%	---		P-value		0.698	Power	---		Power-50%	---		P-value		0.698
Stouffer's	Power		0.004		Power-50%	0.019		P-value		0.440	Power	---		Power-50%	---		P-value		0.500	Power	---		Power-50%	---		P-value		0.500
30196C/30196	2	4	6.88	5.34	5	48.00	20.02	-	-	0.184	4	1.88	1.20	5	21.50	13.87	-	-	0.362	4	1.88	1.20	5	20.00	12.65	-	-	0.368
31252C/31248	2	5	3.00	3.00	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
31252C/31252	2	5	3.00	3.00	6	0.83	0.83	-	+	0.625	5	0.00	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	6.25	5.27	3	5.83	4.64	-	+	0.849	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			4.80	4.15		13.65	6.35		+			0.48	0.30		5.37	3.47		-			0.48	0.30		5.00	3.17		-	
Fisher's	Power		0.003		Power-50%	0.170		P-value		0.475 y	Power	0.007		Power-50%	0.016		P-value		0.476	Power	0.006		Power-50%	0.025		P-value		0.479
Stouffer's	Power		0.006		Power-50%	0.334		P-value		0.680	Power	0.003		Power-50%	0.005		P-value		0.231	Power	0.004		Power-50%	0.007		P-value		0.234
30196C/30196	3	4	16.25	9.49	4	47.50	21.46	-	-	0.299	4	14.37	7.80	4	30.00	14.72	-	-	0.476	4	10.63	8.32	4	12.50	7.50	-	-	0.882
31252C/31248	3	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	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	3	5	1.50	1.50	6	1.67	1.24	-	-	0.820	5	0.00	0.00	6	0.42	0.42	-	-	0.363	5	0.00	0.00	6	0.42	0.42	-	-	0.363
99826C/33141	3	4	18.75	18.75	2	2.50	2.50	-	+	0.727	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
Habitat Means			9.53	7.83		13.02	6.40		-			3.60	1.95		7.93	4.10		-			2.65	2.07		3.22	1.98		-	
Fisher's	Power		0.074		Power-50%	0.114		P-value		0.511	Power	0.093		Power-50%	0.012		P-value		0.236	Power	0.008		Power-50%	0.002		P-value		0.451
Stouffer's	Power		0.077		Power-50%	0.260		P-value		0.253	Power	0.169		Power-50%	0.003		P-value		0.172	Power	0.009		Power-50%	0.001		P-value		0.329

(a) Chondrus, Irridea, Mastocarpus and Rhodoglossum.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.418. Page 1. December 15, 1994

Site Pair	Mvd	N	Palmaria spp. (A)							Phycodrys riggii (A)							Porphyra sp. (A)											
			C	SE	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			o			0.00	0.00		0.00			o			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			o			0.00	0.00		0.00			o			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	3.13	2.37	4	17.50	17.50	-	-	0.640	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
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			0.78	0.60		4.37	4.37		-			0.00	0.00		0.00			o			0.15	0.15		0.33	0.33		+	
Fisher's	Power		0.000		Power-50%	0.004		P-value		0.598	Power	---		Power-50%	---		P-value		0.698	Power	---		Power-50%	---		P-value		0.579 y
Stouffer's	Power		0.000		Power-50%	0.000		P-value		0.353	Power	---		Power-50%	---		P-value		0.500	Power	---		Power-50%	---		P-value		0.261

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.418. Page 2. December 15, 1994

Table C-5.418. Algal Percent Cover. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Overstory removed 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	0.85	6	0.00	0.00	-	+	0.183	6	0.00	0.00	6	0.00	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	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	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	1.67	1.67	4	4.37	4.37	-	-	0.630	6	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00			o			0.75	0.65		1.10	1.10	-				0.00	0.00		0.00		0.00	o		
Fisher's	Power		---		Power-50%	---	P-value			0.698	Power	0.009		Power-50%	0.016	P-value			0.403	Power	---		Power-50%	---	P-value			0.698	
Stouffer's	Power		---		Power-50%	---	P-value			0.500	Power	0.010		Power-50%	0.023	P-value			0.149	Power	---		Power-50%	---	P-value			0.500	
30196C/30196	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	5.00	5.00	5	10.00	6.07	-	-	0.482	4	0.00	0.00	5	3.00	2.00	-	-	0.187	
31252C/31248	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	3.00	3.00	6	0.00	0.00	-	+	0.374	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	3.00	3.00	6	0.42	0.42	-	+	0.511	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	6.25	5.27	3	5.83	4.64	-	+	0.849	6	0.00	0.00	3	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00			o			4.33	4.08		4.05	2.77	+				0.00	0.00		0.75	0.50	-			
Fisher's	Power		---		Power-50%	---	P-value			0.698	Power	0.009		Power-50%	0.089	P-value			0.400	Power	0.005		Power-50%	---	P-value			0.351	
Stouffer's	Power		---		Power-50%	---	P-value			0.500	Power	0.029		Power-50%	0.250	P-value			0.461	Power	0.001		Power-50%	---	P-value			0.144	
30196C/30196	3	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	1.88	1.88	4	7.50	5.95	-	-	0.439	4	0.00	0.00	4	1.88	1.88	-	-	0.391	
31252C/31248	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	
31252C/31252	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	1.50	1.50	6	0.83	0.83	-	+	0.790	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	8.75	8.75	2	1.25	1.25	-	+	0.761	4	0.00	0.00	2	1.25	1.25	-	-	0.500	
Habitat Means			0.00	0.00		0.00			o			3.42	3.42		2.50	2.13	+				0.00	0.00		0.80	0.80	-			
Fisher's	Power		---		Power-50%	---	P-value			0.698	Power	0.004		Power-50%	---	P-value			0.580	Power	---		Power-50%	---	P-value			0.359	
Stouffer's	Power		---		Power-50%	---	P-value			0.500	Power	0.020		Power-50%	---	P-value			0.611	Power	---		Power-50%	---	P-value			0.230	

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

Table C-5.418. Page 3. December 15, 1994

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	0.83	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	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	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	0.00	-	o	1.000	
99826C/33141	1	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	6	0.00	0.00	4	4.37	4.37	-	-	0.391		
Habitat Means			0.20	0.20		0.00	0.00		+			0.42	0.42		0.00	0.00		+			0.00	0.00		1.10	1.10		-			
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	5.00	5.00	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	7.00	6.39	-	-	0.263		
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	3.00	3.00	6	0.00	0.00	-	+	0.374		
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	3.00	3.00	6	0.42	0.42	-	+	0.511		
99826C/33141	2	6	0.83	0.53	3	0.00	0.00	-	+	0.175	6	0.00	0.00	3	0.83	0.83	-	-	0.423	6	5.42	5.42	3	5.00	5.00	-	+	0.860		
Habitat Means			1.45	1.38		0.00	0.00		+			0.00	0.00		0.20	0.20		-			2.85	2.85		3.10	2.95		+			
Fisher's	Power		0.049		Power-50%	0.049	P-value			0.207	Power	---		Power-50%	---	P-value			0.508	Power	0.001		Power-50%	---	P-value			0.428		
Stouffer's	Power		0.043		Power-50%	0.044	P-value			0.215	Power	---		Power-50%	---	P-value			0.477	Power	0.001		Power-50%	---	P-value			0.595		
30196C/30196	3	4	1.88	1.88	4	0.00	0.00	-	-	0.391	4	0.00	0.00	4	1.25	1.25	-	-	0.391	4	0.00	0.00	4	3.75	3.75	-	-	0.391		
31252C/31248	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		
31252C/31252	3	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	0.83	0.83	-	-	0.363		
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	8.75	8.75	2	0.00	0.00	-	+	0.391		
Habitat Means			0.48	0.48		0.00	0.00		+			0.75	0.75		0.42	0.42		-			2.20	2.20		1.15	1.15		-			
Fisher's	Power		---		Power-50%	---	P-value			0.492	Power	---		Power-50%	---	P-value			0.485	Power	---		Power-50%	---	P-value			0.386		
Stouffer's	Power		---		Power-50%	---	P-value			0.245	Power	---		Power-50%	---	P-value			0.559	Power	---		Power-50%	---	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.

Table C-5.418. Page 4. December 15, 1994



Table C-5.418. Algal Percent Cover, Rhodophyta, Kodiak/Alaska Peninsula, Sheltered Rocky, May 1991. Overstory removed 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	N	C	SE	N	O	SE	CV	D	P			
30196C/30196	1	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	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	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	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	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	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	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	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			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	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	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	0.00	-	o	1.000	4	0.00	0.00	5	1.00	1.00	1.00	-	-	0.374	5	0.00	0.00	5	1.00	1.00	1.00	-	-	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	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	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	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	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	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	0.00	-	o	1.000
Habitat 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		-	-			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	0.483	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	Power	---				Power-50%	---		P-value	0.237	
30196C/30196	3	4	0.00	0.00	4	0.63	0.63	-	-	0.391	4	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	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	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	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	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	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	0.00	-	o	1.000	4	0.00	0.00	2	0.00	0.00	0.00	-	o	1.000	4	0.00	0.00	2	0.00	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			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	Power	---				Power-50%	---		P-value	0.698	
Stouffer's	Power		---			Power-50%	---		P-value	0.245	Power	---			Power-50%	---		P-value	0.500	Power	---				Power-50%	---		P-value	0.500	Power	---				Power-50%	---		P-value	0.500	

(b) Genus 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-5.418. Page 5. December 15, 1994

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	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	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	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	0.00	~	o	1.000			
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	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				---	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				---	P-value	0.500	
30196C/30196	2	4	0.00	0.00	5	1.00	1.00	~	-	0.374	4	0.00	0.00	5	9.00	7.81	~	-	0.243	4	0.00	0.00	5	0.00	0.00	0.00	~	-	0.1000			
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	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	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	0.00	~	o	1.000			
Habitat Means			0.00	0.00		0.25	0.25		-			0.00	0.00		2.25	1.95		-			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	0.398	Power	---		Power-50%		---	P-value	0.698				---	P-value	0.698	
Stouffer's	Power		---		Power-50%		---	P-value	0.237	Power	---	0.000	Power-50%		---	P-value	0.173	Power	---		Power-50%		---	P-value	0.500				---	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	6.88	6.88	~	-	0.391	4	0.00	0.00	4	0.00	0.00	0.00	~	-	0.1000			
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	0.00	~	-	0.1000			
31252C/31252	3	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	0.00	~	-	0.1000			
99826C/33141	3	4	0.00	0.00	2	0.00	0.00	~	o	1.000	4	10.00	10.00	2	0.00	0.00	~	+	0.391	4	0.00	0.00	2	0.00	0.00	0.00	~	-	0.1000			
Habitat Means			0.00	0.00		0.00	0.00		o			2.50	2.50		1.82	1.82		-			0.00	0.00		0.00	0.00			o				
Fisher's	Power		---		Power-50%		---	P-value	0.698	Power	---		Power-50%		---	P-value	0.386 y	Power	---		Power-50%		---	P-value	0.698				---	P-value	0.698	
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value	0.170 y	Power	---		Power-50%		---	P-value	0.500				---	P-value	0.500	

Table C-5.418. Algal Percent Cover. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Overstory removed 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	1.25	1.25	6	3.33	3.33	-	-	0.737	6	0.00	0.00	6	0.00	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	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	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	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00			o			0.33	0.33		0.83	0.83	-				0.00	0.00		0.00		0.00		o	
Fisher's	Power		---		Power-50%	---		P-value	0.698	Power	---		Power-50%	---		P-value	0.630			Power	---		Power-50%	---		P-value	0.698		
Stouffer's	Power		---		Power-50%	---		P-value	0.500	Power	---		Power-50%	---		P-value	0.394			Power	---		Power-50%	---		P-value	0.500		
30196C/30196	2	4	0.00	0.00	5	9.00	7.81	-	-	0.243	4	0.00	0.00	5	6.50	4.44	-	-	0.190	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	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	0.42	0.42	-	-	0.363	5	0.00	0.00	6	0.00	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	0.00	-	o	1.000
Habitat Means			0.00	0.00		2.25	1.95	-				0.00	0.00		1.73	1.20	-				0.00	0.00		0.50	0.50	-			
Fisher's	Power		0.000		Power-50%	---		P-value	0.398	Power	0.022		Power-50%	---		P-value	0.208			Power	---		Power-50%	---		P-value	0.483		
Stouffer's	Power		0.000		Power-50%	---		P-value	0.173	Power	---		Power-50%	---		P-value	0.084			Power	---		Power-50%	---		P-value	0.237		
30196C/30196	3	4	0.00	0.00	4	6.88	6.88	-	-	0.391	4	0.00	0.00	4	3.13	3.13	-	-	0.391	4	0.00	0.00	4	1.88	1.88	-	-	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	0.00	-	o	1.000
31252C/31252	3	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	0.00	-	o	1.000
99826C/33141	3	4	10.00	10.00	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	0.00	-	o	1.000
Habitat Means			2.50	2.50		1.82	1.82	-				0.00	0.00		0.78	0.78	-				0.00	0.00		0.48	0.48	-			
Fisher's	Power		---		Power-50%	---		P-value	0.386	Power	---		Power-50%	---		P-value	0.492			Power	---		Power-50%	---		P-value	0.492		
Stouffer's	Power		---		Power-50%	---		P-value	0.170	Power	---		Power-50%	---		P-value	0.245			Power	---		Power-50%	---		P-value	0.245		

(a) Genes 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-5.418, Page 7, December 15, 1994

		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	1	6	1.25	1.25	6	3.33	3.33	-	-	0.737																					
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			0.33	0.33		0.83	0.83	-																							
Fisher's	Power		---		Power-50%	---		P-value	0.630	Power	---		Power-50%	---		P-value				Power	---		Power-50%	---		P-value					
Stouffer's	Power		---		Power-50%	---		P-value	0.394	Power	---		Power-50%	---		P-value				Power	---		Power-50%	---		P-value					
30196C/30196	2	4	0.00	0.00	5	4.50	4.50	-	-	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	0.42	0.42	-	-	0.363																					
99826C/33141	2	6	0.00	0.00	3	0.00	0.00	-	o	1.000																					
Habitat Means			0.00	0.00		1.23	1.23	-																							
Fisher's	Power		---		Power-50%	---		P-value	0.299	Power	---		Power-50%	---		P-value				Power	---		Power-50%	---		P-value					
Stouffer's	Power		---		Power-50%	---		P-value	0.149	Power	---		Power-50%	---		P-value				Power	---		Power-50%	---		P-value					
30196C/30196	3	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																					
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		0.33	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	0.245	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-5.418, Page 8, December 15, 1994

**Table C-5.419. Algal Percent Cover. Invertebrates. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Overstory removed 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	35.42	11.52	6	4.17	2.79	-	-	0.029	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000			
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	16.67	9.12	6	22.08	7.08	-	-	0.631	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000			
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	16.67	9.12	6	61.67	11.60	-	-	0.010	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000			
99826C/33141	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	6.25	2.39	4	7.50	4.21	-	-	0.840	6	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000			
Habitat Means			0.00	0.00		0.00	0.00		o		18.78	8.02		23.87	6.43		-				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	0.066x	Power	---		Power-50%		---	P-value	0.698				0.698			
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power		0.075		Power-50%		---	P-value	0.726	Power		---	Power-50%		---	P-value	0.500			0.500			
30196C/30196	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	15.63	4.13	5	0.50	0.50	-	+	0.001	4	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000			
31252C/31248	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	70.50	19.26	6	49.17	13.30	-	+	0.299	5	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000			
31252C/31252	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	70.50	19.26	6	93.33	5.23	-	-	0.294	5	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000			
99826C/33141	2	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	35.00	8.32	3	10.00	5.00	-	-	0.094	6	0.00	0.00	3	0.00	0.00	0.00	-	o	1.000			
Habitat Means			0.00	0.00		0.00	0.00		o		47.90	12.75		38.25	6.00		-				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	0.001	Power	---		Power-50%		---	P-value	0.698				0.698			
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power		---		Power-50%		---	P-value	0.001	Power		---	Power-50%		---	P-value	0.500			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	0.63	0.63	-	-	0.391				
31252C/31248	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	96.50	1.70	6	72.08	14.00	-	+	0.125	5	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000			
31252C/31252	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	96.50	1.70	6	63.33	13.63	-	+	0.039	5	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000			
99826C/33141	3	4	0.00	0.00	2	0.00	0.00	-	o	1.000	4	2.50	1.77	2	0.00	0.00	-	+	0.204	4	0.00	0.00	2	0.00	0.00	0.00	-	o	1.000			
Habitat Means			0.00	0.00		0.00	0.00		o		48.87	1.30		33.85	6.90		+				0.00	0.00		0.15	0.15	-						
Fisher's	Power		---		Power-50%		---	P-value	0.698	Power	---		Power-50%		---	P-value	0.013	Power	---		Power-50%		---	P-value	0.492				0.492			
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power		---		Power-50%		---	P-value	0.061	Power		---	Power-50%		---	P-value	0.245			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-5.419. Page 1. December 15, 1994

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	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	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	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	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	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	1.88	1.20	-	-	0.191	6	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.15	0.15		-			0.00	0.00		0.68	0.50		-			0.00	0.00		0.00	0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value	0.492	Power		0.131		Power-50%		---	P-value	0.115	Power		---	Power-50%		---	P-value	0.698			
Stouffer's	Power		---		Power-50%		---	P-value	0.475	Power		0.283		Power-50%		---	P-value	0.125	Power		---	Power-50%		---	P-value	0.500			
30196C/30196	2	4	2.50	2.50	5	0.50	0.50	~	+	0.559	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	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	2.92	1.19	-	-	0.033	5	0.00	0.00	6	0.00	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	2.08	1.00	-	-	0.081	5	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
99826C/33141	2	6	3.33	2.01	3	0.83	0.83	~	+	0.484	6	2.50	1.71	3	0.83	0.83	-	-	0.693	6	0.00	0.00	3	0.00	0.00	0.00	-	o	1.000
Habitat Means			1.45	1.13		0.33	0.33		+			0.63	0.42		1.45	0.75		-			0.00	0.00		0.00	0.00	0.00		o	
Fisher's	Power		0.017		Power-50%		0.021	P-value	0.418	Power		---		Power-50%		---	P-value	0.032	Power		---	Power-50%		---	P-value	0.698			
Stouffer's	Power		0.020		Power-50%		0.024	P-value	0.301	Power		---		Power-50%		---	P-value	0.056	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	0.00	-	o	1.000
31252C/31248	3	5	0.00	0.00	6	3.75	3.28	-	-	0.233	5	1.00	0.61	6	0.00	0.00	-	+	0.178	5	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
31252C/31252	3	5	0.00	0.00	6	0.42	0.42	~	-	0.363	5	1.00	0.61	6	0.00	0.00	-	+	0.178	5	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
99826C/33141	3	4	20.00	11.95	2	7.50	7.50	~	+	0.681	4	0.63	0.63	2	0.00	0.00	-	+	0.391	4	0.00	0.00	2	0.00	0.00	0.00	-	o	1.000
Habitat Means			5.00	3.00		2.93	2.80		+			0.65	0.45		0.00	0.00		+			0.00	0.00		0.00	0.00	0.00		o	
Fisher's	Power		0.021		Power-50%		0.029	P-value	0.270	Power		---		Power-50%		---	P-value	0.074	Power		---	Power-50%		---	P-value	0.698			
Stouffer's	Power		0.053		Power-50%		0.010	P-value	0.197	Power		0.509		Power-50%		0.426	P-value	0.120	Power		---	Power-50%		---	P-value	0.500			

Table C-5.419. Algal Percent Cover. Invertebrates. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Overstory removed August 1990. (Continued.)

Site Pair	Mvd	N	Cnidaria							Mollusca																			
			C	SE	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	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 5.419. Page 3. December 15, 1994

**Table C-5.420. Algal Percent Cover. Substrates. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Overstory removed 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	N	Rock								Mud								Sand									
			C	SE	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	47.50	12.94	6	69.58	14.78	-	-	0.240	6	0.00	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	79.17	10.03	6	68.75	8.08	-	+	0.447	6	0.00	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	79.17	10.03	6	37.92	11.39	-	+	0.019	6	0.00	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	90.00	6.06	4	68.12	9.86	-	+	0.072	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	2.08	2.08	4	0.00	0.00	-	+	0.363
Habitat Means			73.98	9.75		61.10	11.05					0.00	0.00		0.00	0.00		o			0.52	0.52		0.00	0.00		+	
Fisher's	Power		---		Power-50%	---		P-value		0.014	Power	---		Power-50%	---		P-value		0.698	Power	---		Power-50%	---		P-value		0.477
Stouffer's	Power		0.220		Power-50%	0.988		P-value		0.352	Power	---		Power-50%	---		P-value		0.500	Power	---		Power-50%	---		P-value		0.474
30196C/30196	2	4	63.12	13.05	5	33.00	13.77	-	+	0.162	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	2.50	1.94	6	35.83	11.86	-	-	0.008	5	0.00	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	2.50	1.94	6	3.75	3.75	-	-	0.902	5	0.00	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	37.08	6.04	3	66.67	8.70	-	-	0.031	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	1.25	0.85	3	0.00	0.00	-	-	0.183
Habitat Means			26.30	5.73		34.83	9.55		-			0.00	0.00		0.00	0.00		o			0.33	0.23		0.00	0.00		+	
Fisher's	Power		---		Power-50%	---		P-value		0.007	Power	---		Power-50%	---		P-value		0.698	Power	0.003		Power-50%	0.000		P-value		0.347
Stouffer's	Power		0.190		Power-50%	0.739		P-value		0.379	Power	---		Power-50%	---		P-value		0.500	Power	0.001		Power-50%	0.000		P-value		0.461
30196C/30196	3	4	56.88	19.80	4	29.38	17.86	-	+	0.300	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	1.00	0.61	6	7.50	2.74	-	-	0.103	5	0.00	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	1.00	0.61	6	15.00	2.81	-	-	0.000	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	1.25	1.25	2	36.25	33.75	-	-	0.126	4	21.88	8.44	2	0.00	0.00	-	+	0.066	4	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			15.05	5.58		22.05	14.30		-			5.48	2.10		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%	---		P-value		0.000	Power	0.117		Power-50%	0.022		P-value		0.202	Power	---		Power-50%	---		P-value		0.698
Stouffer's	Power		---		Power-50%	---		P-value		0.092	Power	0.019		Power-50%	0.004		P-value		0.446	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-5.420. Page 1. December 15, 1994

Site Pair	Mvd	Shell Fragments									Filamentous Diatoms									Zostera/Phyllospadix								
		N	C	SE	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	o	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	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	0.42	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/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		0.10	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		0.336	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	2.08	1.36	3	0.00	0.00	-	+	0.178	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			0.52	0.35		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		0.009		Power-50%	0.009		P-value		0.342	Power	---		Power-50%	---		P-value		0.698	Power	---		Power-50%	---		P-value		0.698
Stouffer's	Power		0.002		Power-50%	0.001		P-value		0.461	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	0.42	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
99826C/33141	3	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	4	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.15	0.15		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		0.578 y	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

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

Table C-5.420. Page 2. December 15, 1994

Table C-5.420. Algal Percent Cover. Totals and Seasonal Groups. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Overstory removed August 1990. (Continued.)

Site Pair	Mvd	N	Sand and Mud							Total Substrate																		
			C	SE	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	47.50	12.94	6	69.58	14.78	-	-	0.240									
31252C/31248	1	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	79.17	10.03	6	69.17	7.87	-	+	0.457									
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	79.17	10.03	6	37.92	11.39	-	+	0.019									
99826C/33141	1	6	2.08	2.08	4	0.00	0.00	-	+	0.363	6	92.08	4.00	4	68.12	9.86	-	+	0.034									
Habitat Means			0.52	0.52		0.10	0.10		-			74.50	9.23		61.20	11.00												
Fisher's	Power		---		Power-50%	---	P-value	0.582	y	Power	---		Power-50%	---	P-value	0.008				Power	---		Power-50%	---	P-value			
Stouffer's	Power		---		Power-50%	---	P-value	0.360		Power	0.225		Power-50%	0.990	P-value	0.347				Power	---		Power-50%	---	P-value			
30196C/30196	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	63.12	13.05	5	33.00	13.77	-	+	0.162									
31252C/31248	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	2.50	1.94	6	35.83	11.86	-	-	0.008									
31252C/31252	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	2.50	1.94	6	3.75	3.75	-	-	0.902									
99826C/33141	2	6	3.33	1.24	3	0.00	0.00	-	+	0.030	6	40.42	6.00	3	66.67	8.70	-	-	0.045									
Habitat Means			0.83	0.30		0.00	0.00		-			27.12	5.73		34.83	9.55												
Fisher's	Power		0.097		Power-50%	0.024	P-value	0.128		Power	---		Power-50%	---	P-value	0.009				Power	---		Power-50%	---	P-value			
Stouffer's	Power		0.027		Power-50%	0.009	P-value	0.437		Power	0.176		Power-50%	0.719	P-value	0.383				Power	---		Power-50%	---	P-value			
30196C/30196	3	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	56.88	19.80	4	29.38	17.86	-	+	0.300									
31252C/31248	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	1.00	0.61	6	7.50	2.74	-	-	0.103									
31252C/31252	3	5	0.00	0.00	6	0.42	0.42	-	-	0.363	5	1.00	0.61	6	15.42	3.12	-	-	0.000									
99826C/33141	3	4	22.50	8.35	2	0.00	0.00	-	+	0.063	4	23.75	7.25	2	36.25	33.75	-	-	0.783									
Habitat Means			5.62	2.10		0.10	0.10		-			20.68	7.08		22.15	14.38												
Fisher's	Power		0.139		Power-50%	0.030	P-value	0.260		Power	---		Power-50%	---	P-value	0.002				Power	---		Power-50%	---	P-value			
Stouffer's	Power		0.015		Power-50%	0.005	P-value	0.575		Power	0.300		Power-50%	0.672	P-value	0.113				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-5.420. Page 3. December 15, 1994

Table C-5.421. Algal Percent Cover, Totals and Seasonal Groups, Kodiak/Alaska Peninsula, Coarse Textured, May 1991, Overstory removed 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	0.06	0.06	0	--	--	-	-	---	5	0.60	0.40	0	--	--	-	-	---	5	2.00	1.22	0	--	--	-	-	---				
Habitat Means			0.03	0.06		0.00	0.00					0.30	0.40		0.00	0.00					1.00	1.20		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		---				
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	0.60	0.24	0	--	--	-	-	---	5	19.00	12.56	0	--	--	-	-	---				
Habitat Means			0.00	0.00		0.00	0.00					0.60	0.25		0.00	0.00					19.00	12.60		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		---				
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	0.50	0.29	0	--	--	-	-	---	4	1.88	1.20	0	--	--	-	-	---				
Habitat Means			0.00	0.00		0.00	0.00					0.25	0.29		0.00	0.00					0.95	1.20		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		---				

(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.

Table C-5.421. Page 1. March 16, 1995

Total Invertebrates											k											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	3.00	1.46	0	--	--	-	-	---	5	94.50	2.78	0	--	--	-	-	---	5	1.50	1.00	0	--	--	-	-	---				
Habitat Means			1.50	1.50		0.00	0.00					97.25	2.80		100.00	0.00					0.75	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	0.00	0.00	-	-	---	0	--	--	5	100.00	0.00	-	-	---	0	--	--	5	0.00	0.00	-	-	---				
94935C/31288	2	5	5.50	4.29	0	--	--	-	-	---	5	56.50	17.56	0	--	--	-	-	---	5	19.00	12.56	0	--	--	-	-	---				
Habitat Means			5.50	4.30		0.00	0.00					56.50	17.60		100.00	0.00					19.00	12.60		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		---				
13.1C/13.1	3	1	0.00	--	6	18.33	6.60	-	-	---	1	100.00	--	6	81.67	6.60	-	+	---	1	0.00	--	6	0.00	0.00	-	o	---				
94935C/31288	3	4	1.25	1.25	0	--	--	-	-	---	4	95.63	1.57	0	--	--	-	-	---	4	1.25	1.25	0	--	--	-	-	---				
Habitat Means			0.65	1.30		18.30	6.60					97.80	1.60		81.70	6.60					0.65	1.30		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-5.421. Page 2. March 16, 1995

Table C-5.421. Algal Percent Cover. Totals and Seasonal Groups. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Overstory removed 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
94935C/31288	1	5	0.50	0.50	0	---	---	-	-	---	5	0.00	0.00	0	---	---	-	-	---	---	---	---	---	---	---	---	---	---
Habitat Means			0.25	0.50		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	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	0.63	0.63	0	--	--	-	-	---	4	0.00	0.00	0	--	--	-	-	---									
Habitat Means			0.30	0.60		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.

Table C-5.421. Page 3. March 16, 1995



Table C-5.422. Algal Percent Cover. Chlorophyta. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Overstory removed 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 &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.422. Page 1. March 16, 1995

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	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 &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.422. Page 2. March 16, 1995

Table C-5.423. Algal Percent Cover. Phaeophyta. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Overstory removed 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	1.50	1.00	0	--	--	-		---	5	1.50	1.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---				
Habitat Means			0.75	1.00		0.00	0.00					0.75	1.00		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	19.00	12.56	0	--	--	-		---	5	19.00	12.56	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---				
Habitat Means			19.00	12.60		0.00	0.00					19.00	12.60		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		---				
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	1.25	1.25	0	--	--	-		---	4	1.25	1.25	0	--	--	-		---	4	0.00	0.00	0	--	--	-		---				
Habitat Means			0.65	1.30		0.00	0.00					0.65	1.30		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-5.423. Page 1. March 16, 1995

Total <i>Fucus gardneri</i> (P)											Adult <i>Fucus gardneri</i> (P) (> 2cm)											Juvenile <i>Fucus gardneri</i> (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	1.50	1.00	0	--	--	-		---	5	1.50	1.00	0	--	--	-		---	5	0.00	0.00	0.00	0	--	--	-	---				
Habitat Means			0.75	1.00		0.00	0.00					0.75	1.00		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	19.00	12.56	0	--	--	-		---	5	19.00	12.56	0	--	--	-		---	5	0.00	0.00	0.00	0	--	--	-	---				
Habitat Means			19.00	12.60		0.00	0.00					19.00	12.60		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		---				
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	1.25	1.25	0	--	--	-		---	4	1.25	1.25	0	--	--	-		---	4	0.00	0.00	0.00	0	--	--	-	---				
Habitat Means			0.65	1.30		0.00	0.00					0.65	1.30		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-5.423. Page 2. March 16, 1995

Table C-5.423. Algal Percent Cover. Phaeophyta. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Overstory removed July 1990. (Continued.)

Site Pair	Mvd	N	Fucus Stipes (P) (a)							Morphological Group: Coarse Filamentous Browns							Myelophycus/Scytosiphon (A) (a)											
			C	SE	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	-	0	---	1	0.00	--	2	0.00	0.00	-	0	---	1	0.00	--	2	0.00	0.00	-	0	---
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	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	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	-	0	---	1	0.00	--	6	0.00	0.00	-	0	---	1	0.00	--	6	0.00	0.00	-	0	---
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	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.

\* At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.423. Page 3. March 16, 1993

Site Pair	Morphological Group: Fine Filamentous Browns									Fine Filamentous Browns (AE) (b)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																

(b) Elachista, Scytocarpus and Pilayella.

\* At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.423. Page 4. March 16, 1993

Table C-5.424. Algal Percent Cover. Rhodophyta. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Overstory removed 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.

Site Pair	Mvd	N	Total Rhodophyta							Morphological Group: Bladed Reds							Gigartinales Group (P) (a)											
			C	SE	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	0.50	0.50	0	--	--	-	---	---	5	0.00	0.00	0	--	--	-	---	---	5	0.00	0.00	0	0.00	--	--	-	---
Habitat Means			0.25	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	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	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	---		---
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	0.63	0.63	0	--	--	-	---	---	4	0.63	0.63	0	--	--	-	---	---	4	0.00	0.00	0	0.00	--	--	-	---
Habitat Means			0.30	0.60		0.00	0.00					0.30	0.60		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, Marstonia 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-5.424. Page 1. March 16, 1995

Table C-5-624, Page 1, March 16, 1995

Site Pair	Mvd	N	Porphyra sp. (A)							Morphological Group: Coarse Filamentous Reds							Gloiopeltis furcata (A)											
			C	SE	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	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	---		---
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	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	---		---
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	0.63	0.63	0	--	--	-	---	---	4	0.00	0.00	0	--	--	-	---	---	4	0.00	0.00	0	0.00	--	--	-	---
Habitat Means			0.30	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	---		---

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

Table C-5.424. Page 2. March 16, 1995

Table C-5.424. Algal Percent Cover. Rhodophyta. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Overstory removed 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				
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	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	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	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-5.424. Page 3. March 14, 1995

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				
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	0.50	0.50	0	--	--	-	-	---	5	0.50	0.50	0	--	--	-	-	---				
Habitat Means			0.00	0.00		0.00	0.00				0.25	0.50		0.00	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	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	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	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-5.424. Page 4. March 14, 1995

Table C-5.425. Algal Percent Cover. Invertebrates. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Overstory removed 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	3.00	1.46	0	--	--	-	---	---	5	0.00	0.00	0	--	--	-	---	---	5	0.00	0.00	0	--	--	-	---	---				
Habitat Means			1.50	1.50		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	2	0	--	--	5	0.00	0.00	-	---	---	0	--	--	5	0.00	0.00	-	---	---	0	--	--	5	0.00	0.00	-	---	---				
94935C/31288	2	5	4.50	3.91	0	--	--	-	---	---	5	0.00	0.00	0	--	--	-	---	---	5	1.00	0.61	0	--	--	-	---	---				
Habitat Means			4.50	3.90		0.00	0.00					0.00	0.00		0.00	0.00					1.00	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	---	---				
13.1C/13.1	3	1	0.00	--	6	12.92	5.14	-	-	---	1	0.00	--	6	2.08	2.08	-	-	---	1	0.00	--	6	3.33	1.67	-	-	---				
94935C/31288	3	4	1.25	1.25	0	--	--	-	---	---	4	0.00	0.00	0	--	--	-	---	---	4	0.00	0.00	0	--	--	-	---	---				
Habitat Means			0.65	1.30		12.90	5.10					0.00	0.00		2.10	2.10					0.00	0.00		3.30	1.70							
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-5.425. Page 1. March 14, 1995

Table C-5.426. Algal Percent Cover. Substrates. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Overstory removed 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.

Site Pair	Mvd	N	Rock								Mud								Sand									
			C	SE	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	94.50	2.78	0	--	--	--	---	5	0.00	0.00	0	--	--	--	---	---	5	0.00	0.00	0	--	--	--	---	---	
Habitat Means			97.25	2.80		100.00	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	100.00	0.00	-		---	0	--	--	5	0.00	0.00	-		---	0	--	--	5	0.00	0.00	-		---
94935C/31288	2	5	56.50	17.56	0	--	--	--	---	5	0.00	0.00	0	--	--	--	---	---	5	19.00	19.00	0	--	--	--	---	---	
Habitat Means			56.50	17.60		100.00	0.00				0.00	0.00		0.00	0.00					19.00	19.00		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	81.67	6.60	-	+	---	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---
94935C/31288	3	4	95.63	1.57	0	--	--	--	---	4	0.00	0.00	0	--	--	--	---	---	4	0.63	0.63	0	--	--	--	---	---	
Habitat Means			97.80	1.60		81.70	6.60				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	---

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

Table C-5.426. Page 1. March 16, 1995

		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	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	0.50	0.50	0	--	--	--	--	---	5	0.00	0.00	0	--	--	--	--	---	5	0.50	0.50	0	--	--	--	---	
Habitat Means			0.25	0.50		0.00	0.00					0.00	0.00		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	0.00	0.00	0	--	--	--	--	---	5	0.00	0.00	0	--	--	--	--	---	5	19.00	19.00	0	--	--	--	---	
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					19.00	19.00		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	0.63	0.63	0	--	--	--	--	---	4	0.00	0.00	0	--	--	--	--	---	4	1.25	0.72	0	--	--	--	---	
Habitat Means			0.30	0.60		0.00	0.00					0.00	0.00		0.00	0.00					0.65	0.70		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	---

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

Table C-5.426. Page 2. March 16, 1995

Table C-5.426. Algal Percent Cover. Substrates. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Overstory removed July 1990. (Continued.)

Site Pair	Mvd	N	Total Substrate																													
			C	SE	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	95.00	2.37	0	--	--	-		---																						
Habitat Means			97.50	2.40		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	75.50	13.43	0	--	--	-		---																						
Habitat Means			75.50	13.40		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	81.67	6.60	-	+	---																						
94935C/31288	3	4	96.88	1.20	0	--	--	-		---																						
Habitat Means			98.45	1.20		81.70	6.60																									
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			

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

Table C-5.426. Page 3. March 14, 1998



Table C-5.427. Algal Percent Cover, Totals and Seasonal Groups. Kodiak/Alaska Peninsula, Coarse Textured, May 1991. Overstory removed 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	N	Algal Diversity Index (a)								Algal Taxa Richness (b)								Total Algae								
			C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D
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	0.40	0.24	0	--	--	-	---	---	5	1.50	1.00	0	--	--	-	---	---
Habitat Means			0.00	0.00		0.00	--	--	-		0.40	0.25		0.00	--	--	-	---		1.50	1.00		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	0.50	0.29	0	--	--	-	---	---	4	13.75	8.51	0	--	--	-	---	---
Habitat Means			0.00	0.00		0.00	--	--	-		0.50	0.29		0.00	--	--	-	---		13.80	8.50		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	3	0	--	--	4	0.00	0.00	-	---	0	--	--	4	0.00	0.00	-	---	---	0	--	--	4	0.00	0.00	-	---	---
94935C/31288	3	3	0.02	0.02	0	--	--	-	---	3	0.67	0.67	0	--	--	-	---	---	3	31.67	31.67	0	--	--	-	---	---
Habitat Means			0.02	0.02		0.00	0.00	-	---		0.67	0.67		0.00	0.00	-	---	---		31.70	31.70		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.

Table Page Marc

Site Pair	Mvd	N	Total Invertebrates								Rock								arenilla (P)									
			C	SR	N	O	SR	CV	D	P	N	C	SR	N	O	SR	CV	D	P	N	C	SR	N	O	SR	CV	D	P
94935C/31288	1	5	4.00	2.32	0	--	--	-	---	---	5	94.50	2.15	0	--	--	-	---	---	5	1.50	1.00	0	--	--	-	---	---
Habitat Means			4.00	2.30		0.00	--	--	-	---		94.50	2.20		100.00	--	--	-	---		1.50	1.00		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	100.00	--	-	---	---	0	--	--	1	0.00	--	-	---	---
94935C/31288	2	4	11.88	5.63	0	--	--	-	---	---	4	67.50	13.03	0	--	--	-	---	---	4	13.75	8.51	0	--	--	-	---	---
Habitat Means			11.90	5.60		0.00	--	--	-	---		67.50	13.00		100.00	--	--	-	---		13.80	8.50		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	3	0	--	--	4	5.63	3.29	-	---	---	0	--	--	4	94.38	3.29	-	---	---	0	--	--	4	0.00	0.00	-	---	---
94935C/31288	3	3	0.83	0.83	0	--	--	-	---	---	3	60.83	28.66	0	--	--	-	---	---	3	30.83	30.83	0	--	--	-	---	---
Habitat Means			0.80	0.80		5.60	3.30	-	---	---		60.80	28.70		94.40	3.30	-	---	---		30.80	30.80		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-5.427, Page 2, March 14, 1995

Table C-5.427. Algal Percent Cover. Totals and Seasonal Groups. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Overstory removed September 1990. (Continued.)

Site Pair	Mvd	N	Annuals (A)								Ephemerals (AE)																	
			C	SE	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	---		

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

Table C-5.427. Page 3. March 16, 1995

Table C-5.428. Algal Percent Cover. Chlorophyta. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Overstory removed 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.

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) Kormannia, Monostroma, Ulva and Ulvaria.

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

Table C-5.428. Page 1. March 16, 1998

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	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	--	-	---	---	---	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	--	--	-	---	---	---	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	---	---	---	Power	---		Power-50%		---	P-value	---	---
Stouffer's	Power		---		Power-50%		---	P-value	---	---	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	--	-	---	---	---	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	--	--	-	---	---	---	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	---	---	---	Power	---		Power-50%		---	P-value	---	---
Stouffer's	Power		---		Power-50%		---	P-value	---	---	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	-	---	---	---	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	--	--	-	---	---	---	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	---	---	---	Power	---		Power-50%		---	P-value	---	---
Stouffer's	Power		---		Power-50%		---	P-value	---	---	Power	---		Power-50%		---	P-value	---	---	---	Power	---		Power-50%		---	P-value	---	---	---	Power	---		Power-50%		---	P-value	---	---

(a) Genera not separated.

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

Table C-5.428. Page 2. March 16, 1998

Table C-5.429. Algal Percent Cover. Phaeophyta. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Overstory removed 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	1.50	1.00	0	--	--	-	---	---	5	1.50	1.00	0	--	--	-	---	---	5	0.00	0.00	0	--	--	-	---	---				
Habitat Means			1.50	1.00		0.00	--	--				1.50	1.00		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	13.75	8.51	0	--	--	-	---	---	4	13.75	8.51	0	--	--	-	---	---	4	0.00	0.00	0	--	--	-	---	---				
Habitat Means			13.80	8.50		0.00	--	--				13.80	8.50		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	3	0	--	--	4	0.00	0.00	--	---	---	0	--	--	4	0.00	0.00	--	---	---	0	--	--	4	0.00	0.00	--	---	---				
94935C/31288	3	3	31.67	31.67	0	--	--	-	---	---	3	30.83	30.83	0	--	--	-	---	---	3	0.00	0.00	0	--	--	-	---	---				
Habitat Means			31.70	31.70		0.00	0.00	--				30.80	30.80		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-5.429. Page 1. March 14, 1995

Total <i>Fucus gardneri</i> (P)											Adult <i>Fucus gardneri</i> (P) (> 2cm)								Juvenile <i>Fucus gardneri</i> (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	1.50	1.00	0	--	--	-		---	5	1.50	1.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
Habitat Means			1.50	1.00		0.00	--	--		---		1.50	1.00		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	13.75	8.51	0	--	--	-		---	4	13.12	8.38	0	--	--	-		---	4	0.63	0.63	0	--	--	-		---
Habitat Means			13.80	8.50		0.00	--	--		---		13.10	8.40		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	30.83	30.83	0	--	--	-		---	3	30.83	30.83	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---
Habitat Means			30.80	30.80		0.00	0.00	--		---		30.80	30.80		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-5.429. Page 2. March 14, 1995

Table C-5.429. Algal Percent Cover. Phaeophyta. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Overstory removed September 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	
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	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	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	0.00	--	---	---	0.80	0.80	0.80	0.00	0.00	0.00	--	---	---	---	0.80	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	---	---	

(a) Dead Fucus plants or stipes without blades.

(a) Genera not separated.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.429. Page 3. March 16, 1995

site Pair	Mvd	Morphological Group: Fine Filamentous Browns									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
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	--	--	---	---	---						--	--	---	---
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	--	--	---	---	---						--	--	---	---
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	--	---	---	---						--	--	---	---
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	---			

Table C-5.430. Algal Percent Cover. Rhodophyta. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Overstory removed 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	N	Total Rhodophyta							Morphological Group: Bladed Reds							Gigartinales Group (P) (a)										
			C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D
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	---	P-value	---
Stouffer's	Power		---		Power-50%	---	P-value	---	---	Power	---		Power-50%	---	P-value	---	---	---	Power	---		Power-50%	---	P-value	---	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	---	P-value	---
Stouffer's	Power		---		Power-50%	---	P-value	---	---	Power	---		Power-50%	---	P-value	---	---	---	Power	---		Power-50%	---	P-value	---	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	0.00	0.00	0.00	-	---	---
Fisher's	Power		---		Power-50%	---	P-value	---	---	Power	---		Power-50%	---	P-value	---	---	---	Power	---		Power-50%	---	P-value	---	P-value	---
Stouffer's	Power		---		Power-50%	---	P-value	---	---	Power	---		Power-50%	---	P-value	---	---	---	Power	---		Power-50%	---	P-value	---	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-5.430. Page 1. March 16, 1995

Site Pair	Mvd	Porphyra sp. (A)								Morphological Group: Coarse Filamentous Reds								Gloiopeltis furcata (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
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	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-5.430. Page 2. March 16, 1995

Table C-5.430. Algal Percent Cover. Rhodophyta. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Overstory removed September 1990. (Continued.)

Neorhodomela/Rhodomela (P) (a)										Odonthalia floccosa (P)										Morphological Group: Saccate Reda									
Site Pair	Mvd	N	C	SE	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	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	--	--	--	--	--	
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	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	--	--	--	--	--	
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	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-5.430, Page 3, March 16, 1995

Table C-5.430. Page 3, March 16, 1995

Site Pair	Mvd	N	Halosaccion glandiforme (A)							Morphological Group: Fine Filamentous Reda							Polysiphonia/Pterosiphonia (A) (a)																											
			C	SE	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	--	-	---	0	--	--	--														
94935C/31288	1	5	0.00	0.00	0	--	--	-	---	5	0.00	0.00	0	--	--	-	---	5	0.00	0.00	0	--	--	1	0.00	--	-	---	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	0.00	--	-	---	0.00	0.00	0.00	--	--	--										
Fisher's	Power		---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---	Power	---		Power-50%		---	Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---								
Stouffer's	Power		---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---	Power	---		Power-50%		---	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	--	-	---	0	--	--	--	1	0.00	--	-	---	0	--	--						
94935C/31288	2	4	0.00	0.00	0	--	--	-	---	4	0.00	0.00	0	--	--	-	---	4	0.00	0.00	0	--	--	1	0.00	--	-	---	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	0.00	--	-	---	0.00	0.00	0.00	--	--	--										
Fisher's	Power		---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---	Power	---		Power-50%		---	Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---								
Stouffer's	Power		---		Power-50%		---	P-value	---	Power	---		Power-50%		---	P-value	---	Power	---		Power-50%		---	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	--	---	0	--	--	--	4	0.00	0.00	--	---	0	--	--						
94935C/31288	3	3	0.00	0.00	0	--	--	-	---	3	0.00	0.00	0	--	--	-	---	3	0.00	0.00	0	--	--	4	0.00	--	-	---	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	0.00	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%		---	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%		---	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-5.430, Page 4, March 16, 1995

Table C-5.431. Algal Percent Cover. Invertebrates. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Overstory removed 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	N	Balanomorpha							Mytilus							Littorinidae											
			C	SE	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	4.00	2.32	0	--	--	-	---	5	0.00	0.00	0	--	--	-	---	---	5	0.00	0.00	0	--	--	-	---	---	
Habitat Means			4.00	2.30	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	11.25	5.99	0	--	--	-	---	4	0.63	0.63	0	--	--	-	---	---	4	0.00	0.00	0	--	--	-	---	---	
Habitat Means			11.30	6.00	0.00		--				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	2.50	2.50	-	---	0	--	--	4	3.13	2.37	-	---	---	0	--	--	4	0.00	0.00	0.00	-	---	---
94935C/31288	3	3	0.00	0.00	0	--	--	-	---	3	0.83	0.83	0	--	--	-	---	---	3	0.00	0.00	0	--	--	-	---	---	
Habitat Means			0.00	0.00	2.50	2.50					0.80	0.80	3.10	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	---	---	

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

Table C-5.431. Page 1. March 16, 1993



Table C-5.432. Algal Percent Cover. Substrates. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Overstory removed 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	N	Rock							Mud							Sand											
			C	SE	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	--	-	---	---	0	--	--	1	0.00	--	-	---	---	0	--	--	1	0.00	--	-	---	---
94935C/31288	1	5	94.50	2.15	0	--	--	-	---	---	5	0.00	0.00	0	--	--	-	---	---	5	0.00	0.00	0	--	--	-	---	---
Habitat Means			94.50	2.20		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	67.50	13.03	0	--	--	-	---	---	4	6.88	6.88	0	--	--	-	---	---	4	0.00	0.00	0	--	--	-	---	---
Habitat Means			67.50	13.00		100.00	--					6.90	6.90		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	---	---
13.1C/13.1	3	0	--	--	4	94.38	3.29	-	---	---	0	--	--	4	0.00	0.00	-	---	---	0	--	--	4	0.00	0.00	-	---	---
94935C/31288	3	3	60.83	28.66	0	--	--	-	---	---	3	0.00	0.00	0	--	--	-	---	---	3	6.67	6.67	0	--	--	-	---	---
Habitat Means			60.80	28.70		94.40	3.30					0.00	0.00		0.00	0.00					6.70	6.70		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-5.432. Page 1. March 16, 1998

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	Π										
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	6.88	6.88	0	--	--	-	---	---
Habitat Means			0.00	0.00		0.00	--					0.00	0.00		0.00	--					6.90	6.90		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	6.67	6.67	0	--	--	-	---	---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					6.70	6.70		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-5.432. Page 2. March 16, 1998

Table C-5.432. Algal Percent Cover. Substrates. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Overstory removed September 1990. (Continued.)

Site Pair	Mvd	N	Total Substrate																													
			C	SE	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	94.50	2.15	0	--	--	-	---																							
Habitat Means			94.50	2.20		100.00	--																									
Fisher's	Power		---		Power-50%		---	P-value	---	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		Power	---		Power-50%		---	P-value
13.1C/13.1	2	0	--	--	1	100.00	--	-	---																							
94935C/31288	2	4	74.38	8.25	0	--	--	-	---																							
Habitat Means			74.40	8.30		100.00	--																									
Fisher's	Power		---		Power-50%		---	P-value	---	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		Power	---		Power-50%		---	P-value
13.1C/13.1	3	0	--	--	4	94.38	3.29	-	---																							
94935C/31288	3	3	67.50	31.26	0	--	--	-	---																							
Habitat Means			67.50	31.30		94.40	3.30																									
Fisher's	Power		---		Power-50%		---	P-value	---	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		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-5.432. Page 3. March 14, 1993

Table C-5.433. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound, Sheltered Rocky, August 1992. Overstory removed 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	29.58	15.02	5	0.50	0.50	-	+	0.079
453C/453	1	6	0.03	0.03	6	0.00	0.00	-	+	0.363	6	1.00	0.26	6	0.83	0.17	-	+	0.600	6	54.17	18.09	6	27.08	12.52	-	+	0.245
601C/601	1	6	0.05	0.05	6	0.00	0.00	-	+	0.363	6	0.50	0.34	6	0.33	0.21	-	+	0.687	6	10.00	6.45	6	17.08	16.59	-	+	0.745
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.33	0.21	-	+	0.175	6	0.00	0.00	6	5.00	3.23	-	+	0.177
1522C/1522	1	6	0.00	0.00	6	0.07	0.05	-	-	0.241	6	0.50	0.22	6	1.00	0.37	-	+	0.270	6	26.25	15.86	6	55.83	19.29	-	+	0.247
Habitat Means			0.02	0.02		0.01	0.01	-				0.53	0.21		0.54	0.23	+				24.02	11.10		21.10	10.42	-		
Fisher's	Power		0.000		Power-50%		---	P-value		0.454	Power	0.142		Power-50%		0.852	P-value		0.421	Power	0.022		Power-50%		0.348	P-value		0.331
Stouffer's	Power		0.000		Power-50%		---	P-value		0.327	Power	0.029		Power-50%		0.916	P-value		0.761	Power	0.007		Power-50%		0.542	P-value		0.307
4825C/1424	2	6	0.12	0.09	5	0.00	0.00	-	+	0.235	6	1.50	0.56	5	0.60	0.24	-	+	0.206	6	45.00	14.96	5	26.00	12.26	-	+	0.355
453C/453	2	5	0.06	0.04	6	0.04	0.04	-	+	0.719	5	1.40	0.24	6	0.67	0.33	-	+	0.122	5	55.00	12.82	6	20.00	16.12	-	+	0.169
601C/601	2	6	0.03	0.03	6	0.00	0.00	-	+	0.363	6	0.67	0.33	6	0.50	0.22	-	+	0.687	6	11.25	6.73	6	17.92	13.79	-	+	0.761
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.33	0.22	6	0.33	0.21	-	o	1.000	6	17.50	14.29	6	30.00	19.02	-	+	0.670
1522C/1522	2	6	0.06	0.05	4	0.06	0.06	-	+	0.996	6	1.00	0.37	4	1.25	0.63	-	+	0.721	6	43.75	19.21	4	75.00	25.00	-	+	0.252
Habitat Means			0.06	0.04		0.02	0.02	+				0.98	0.34		0.67	0.33	+				34.52	13.60		33.78	17.24	-		
Fisher's	Power		0.120		Power-50%		0.376	P-value		0.252	Power	0.488		Power-50%		0.992	P-value		0.149	Power	0.048		Power-50%		0.616	P-value		0.548
Stouffer's	Power		0.226		Power-50%		0.605	P-value		0.285	Power	0.402		Power-50%		0.996	P-value		0.155	Power	0.020		Power-50%		0.734	P-value		0.587
4825C/1424	3	4	0.28	0.10	5	0.10	0.10	-	+	0.268	4	2.25	0.48	5	1.60	0.60	-	+	0.443	4	43.13	20.78	5	79.00	16.74	-	+	0.169
453C/453	3	2	0.35	0.12	4	0.00	0.00	-	+	0.211	2	2.50	0.50	4	0.75	0.25	-	+	0.023	2	60.00	17.50	4	23.75	12.14	-	+	0.189
601C/601	3	4	0.13	0.10	6	0.17	0.09	-	+	0.775	4	1.75	0.48	6	1.83	0.48	-	+	0.909	4	41.25	17.57	6	78.75	13.44	-	+	0.092
598C/598	3	6	0.18	0.08	6	0.09	0.07	-	+	0.408	6	1.83	0.40	6	1.33	0.42	-	+	0.411	6	45.42	9.30	6	64.58	17.60	-	+	0.380
1522C/1522	3	6	0.22	0.11	4	0.46	0.10	-	-	0.170	6	2.00	0.73	4	4.75	1.03	-	+	0.055	6	46.67	16.30	4	81.25	17.09	-	+	0.177
Habitat Means			0.23	0.10		0.16	0.07	+				2.07	0.52		2.05	0.56	+				47.30	16.30		65.50	15.38	-		
Fisher's	Power		0.255		Power-50%		0.833	P-value		0.232	Power	---		Power-50%		---	P-value		0.088	Power	---		Power-50%		---	P-value		0.035
Stouffer's	Power		0.145		Power-50%		0.891	P-value		0.134	Power	---		Power-50%		---	P-value		0.063	Power	0.351		Power-50%		0.784	P-value		0.198

(a) Modified Shannon Index.

(b) Taxa richness calculations are explained in the methods.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.433. Page 1. December 15, 1994

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	5.42	3.12	5	43.00	17.33	-	-	0.045	6	62.50	16.48	5	56.50	17.51	-	+	0.800	6	29.58	15.02	5	0.50	0.50	-	+	0.079
453C/453	1	6	1.25	1.25	6	0.42	0.42	-	+	0.718	6	44.58	18.49	6	72.50	12.91	-	+	0.241	6	54.17	18.09	6	27.08	12.52	-	+	0.245
601C/601	1	6	17.50	13.05	6	7.50	2.89	-	+	0.559	6	72.50	12.67	6	75.42	15.32	-	+	0.936	6	10.00	6.45	6	16.67	16.67	-	+	0.816
598C/598	1	6	9.58	4.85	6	22.08	11.93	-	+	0.265	6	90.42	4.85	6	72.92	13.35	-	+	0.158	6	0.00	0.00	6	5.00	3.23	-	+	0.177
1522C/1522	1	6	16.67	10.20	6	10.83	7.03	-	+	0.859	6	57.08	13.88	6	33.33	19.95	-	+	0.282	6	26.25	15.86	6	55.83	19.29	-	+	0.247
Habitat Means			10.10	6.52		16.76	7.90					65.42	13.30		62.12	15.82					24.02	11.10		21.02	10.44			
Fisher's	Power		0.003		Power-50%		0.391	P-value		0.761	Power	0.180		Power-50%		0.970	P-value		0.262	Power	0.044		Power-50%		0.346	P-value		0.344
Stouffer's	Power		0.003		Power-50%		0.524	P-value		0.782	Power	0.117		Power-50%		0.972	P-value		0.237	Power	0.006		Power-50%		0.522	P-value		0.315
4825C/1424	2	6	17.50	13.65	5	43.50	17.33	-	-	0.216	6	37.08	15.23	5	30.50	16.31	-	+	0.671	6	35.83	13.70	5	26.00	12.26	-	+	0.529
453C/453	2	5	23.00	13.75	6	39.58	13.74	-	-	0.389	5	22.00	3.48	6	40.42	12.47	-	+	0.423	5	52.50	11.54	6	20.00	16.12	-	+	0.188
601C/601	2	6	24.58	15.05	6	14.17	4.01	-	+	0.680	6	64.17	15.22	6	67.92	13.88	-	+	0.815	6	11.25	6.73	6	17.92	13.79	-	+	0.761
598C/598	2	6	15.00	4.52	6	25.42	9.54	-	+	0.640	6	67.50	12.43	6	44.58	12.15	-	+	0.207	6	17.50	14.29	6	30.00	19.02	-	+	0.670
1522C/1522	2	6	25.42	10.60	4	1.88	1.88	-	+	0.047	6	30.83	10.70	4	23.13	23.13	-	+	0.452	6	37.50	17.10	4	73.12	24.44	-	+	0.216
Habitat Means			21.10	11.54		24.92	9.28	-				44.32	11.40		41.30	15.60	+				30.92	12.66		33.40	17.12	-		
Fisher's	Power		0.192		Power-50%		0.709	P-value		0.367	Power	0.237		Power-50%		0.938	P-value		0.341	Power	0.057		Power-50%		0.634	P-value		0.496
Stouffer's	Power		0.075		Power-50%		0.768	P-value		0.315	Power	0.169		Power-50%		0.945	P-value		0.237	Power	0.027		Power-50%		0.740	P-value		0.551
4825C/1424	3	4	1.88	1.88	5	0.00	0.00	-	+	0.391	4	35.62	16.88	5	21.00	16.74	-	+	0.425	4	23.75	10.13	5	78.00	16.46	-	+	0.034
453C/453	3	2	6.25	6.25	4	15.63	3.73	-	+	0.203	2	33.75	23.75	4	60.62	14.70	-	+	0.343	2	52.50	25.00	4	16.25	13.13	-	+	0.194
601C/601	3	4	5.00	2.04	6	3.33	3.33	-	+	0.326	4	53.75	16.28	6	17.92	11.55	-	+	0.077	4	34.38	11.61	6	68.33	25.19	-	+	0.288
598C/598	3	6	10.42	8.45	6	11.67	5.76	-	+	0.893	6	44.17	9.72	6	23.75	11.97	-	+	0.140	6	32.08	3.12	6	57.92	17.17	-	+	0.289
1522C/1522	3	6	6.67	3.14	4	0.63	0.63	-	+	0.221	6	22.50	8.11	4	18.12	16.47	-	+	0.645	6	38.75	14.91	4	55.00	13.27	-	+	0.547
Habitat Means			6.06	4.36		6.24	2.68	+				37.98	14.96		28.28	14.30	+				36.32	12.94		55.10	15.06	-		
Fisher's	Power		0.088		Power-50%		0.462	P-value		0.241	Power	---		Power-50%		---	P-value		0.063	Power	---		Power-50%		---	P-value		0.026
Stouffer's	Power		0.065		Power-50%		0.563	P-value		0.571	Power	0.418		Power-50%		0.870	P-value		0.104	Power	0.332		Power-50%		0.874	P-value		0.183

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.433. Page 2. December 15, 1994

Table C-5.433. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. August 1992. Overstory removed July 1990. (Continued.)

Site Pair	Mvd	N	Annuals (A)							Ephemerals (AE)																			
			C	SE	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	0.42	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	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											
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	0.417			Power	---		Power-50%	---	P-value	0.500			Power	---		Power-50%	---	P-value				
4825C/1424	2	6	9.17	7.35	5	0.00	0.00	-	+	0.213	6	9.17	7.35	5	0.00	0.00	-	+	0.213										
453C/453	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										
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	6.25	5.31	4	1.88	1.88	-	+	0.627	6	5.42	5.42	4	0.00	0.00	-	+	0.363										
Habitat Means			3.60	3.04		0.38	0.38	-	+			2.92	2.56		0.00	0.00	-	+											
Fisher's	Power		0.013		Power-50%	0.023	P-value	0.228			Power	0.001		Power-50%	0.001	P-value	0.282			Power	---		Power-50%	---	P-value				
Stouffer's	Power		0.060		Power-50%	0.128	P-value	0.228			Power	0.001		Power-50%	0.001	P-value	0.359			Power	---		Power-50%	---	P-value				
4825C/1424	3	4	19.38	11.29	5	1.00	1.00	-	+	0.074	4	19.38	11.29	5	0.00	0.00	-	-	0.113										
453C/453	3	2	7.50	7.50	4	7.50	7.50	-	o	0.839	2	0.00	0.00	4	0.00	0.00	-	o	1.000										
601C/601	3	4	6.88	6.07	6	10.42	7.20	-	-	0.897	4	0.63	0.63	6	8.75	5.76	-	-	0.371										
598C/598	3	6	13.33	6.67	6	6.67	4.94	-	+	0.477	6	10.00	6.83	6	5.42	3.79	-	-	0.725										
1522C/1522	3	6	7.92	5.02	4	26.25	11.20	-	-	0.084	6	3.75	3.75	4	8.75	6.33	-	-	0.303										
Habitat Means			11.00	7.32		10.38	6.36	-	+			6.76	4.50		4.60	3.18	-	-											
Fisher's	Power		0.111		Power-50%	0.485	P-value	0.296x			Power	0.022		Power-50%	0.199	P-value	0.450			Power	---		Power-50%	---	P-value				
Stouffer's	Power		0.069		Power-50%	0.605	P-value	0.380			Power	0.016		Power-50%	0.380	P-value	0.471			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-5.433. Page 3. December 12, 1994

Table C-5.434. Algal Percent Cover. Chlorophyta. Prince William Sound. Sheltered Rocky. August 1992. Overstory removed 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	8.33	6.54	5	0.00	0.00	-	-	0.208	6	0.00	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	6.25	5.31	4	0.00	0.00	-	+	0.226	6	0.00	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			2.92	2.36		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		0.004		Power-50%	0.001	P-value	0.221		Power	---		Power-50%	---	P-value	0.732		Power	---		Power-50%	---	P-value	0.732						
Stouffer's	Power		0.005		Power-50%	0.003	P-value	0.335		Power	---		Power-50%	---	P-value	0.500		Power	---		Power-50%	---	P-value	0.500						
4825C/1424	3	4	19.38	11.29	5	0.00	0.00	-	+	0.113	4	6.25	6.25	5	0.00	0.00	-	-	0.391	4	6.25	6.25	5	0.00	0.00	-	-	0.391		
453C/453	3	2	0.00	0.00	4	7.50	7.50	-	-	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		
601C/601	3	4	0.63	0.63	6	8.75	5.76	-	-	0.371	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	13.33	6.67	6	5.42	3.79	-	-	0.406	6	0.00	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	7.50	4.74	4	11.25	6.33	-	-	0.359	6	0.00	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			8.16	4.66		6.60	4.68		-			1.26	1.26		0.00	0.00		+			1.26	1.26		0.00	0.00		+			
Fisher's	Power		0.035		Power-50%	0.382	P-value	0.386 y		Power	---		Power-50%	---	P-value	0.550		Power	---		Power-50%	---	P-value	0.550						
Stouffer's	Power		0.007		Power-50%	0.571	P-value	0.505		Power	---		Power-50%	---	P-value	0.453		Power	---		Power-50%	---	P-value	0.453						

(a) Kormannia, Monostroma, Ulva and Ulvaria.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.434. Page 1. December 15, 1994

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	4.17	2.71	5	0.00	0.00	-	+	0.178	6	0.00	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	6.25	5.31	4	0.00	0.00	-	+	0.226	6	0.83	0.83	4	0.00	0.00	-	+	0.363	6	0.00	0.00	4	0.00	0.00	-	+	0.363
Habitat Means			2.10	1.60		0.00	0.00		+			0.16	0.16		0.00	0.00		+			0.00	0.00		0.00	0.00		+	
Fisher's	Power		0.007		Power-50%	0.007	P-value	0.204	Power	---		Power-50%	---	P-value	0.536	Power	---		Power-50%	---	P-value	0.732						
Stouffer's	Power		0.008		Power-50%	0.009	P-value	0.331	Power	---		Power-50%	---	P-value	0.425	Power	---		Power-50%	---	P-value	0.500						
4825C/1424	3	4	13.13	6.24	5	0.00	0.00	-	+	0.086	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	7.50	7.50	-	-	0.391	2	0.00	0.00	4	7.50	7.50	-	-	0.391	2	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	4	0.63	0.63	6	8.75	5.76	-	-	0.371	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	13.33	6.67	6	5.42	3.79	-	-	0.406	6	3.33	3.33	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	7.50	4.74	4	11.25	6.33	-	-	0.359	6	3.75	3.75	4	2.50	1.77	-	+	0.624	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			6.90	3.64		6.60	4.68		-			1.42	1.42		2.00	1.86		+			0.00	0.00		0.00	0.00		o	
Fisher's	Power		0.038		Power-50%	0.488	P-value	0.389	Power	0.000		Power-50%	---	P-value	0.591	Power	---		Power-50%	---	P-value	0.732						
Stouffer's	Power		0.007		Power-50%	0.642	P-value	0.512	Power	0.000		Power-50%	---	P-value	0.383	Power	---		Power-50%	---	P-value	0.500						

Table C-5.434. Algal Percent Cover. Chlorophyta. Prince William Sound. Sheltered Rocky. August 1992. Overstory removed July 1990. (Continued.)

Cladophora sp. (AE)										Ulothrix sp. (AE)								Urospora sp. (AE)										
it	Pair	Mvd	N	C	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		o				0.00	0.00		0.00		o				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	4.17	2.71	5	0.00	0.00	-	-	0.178	6	0.00	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	5.42	5.42	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			1.92	1.62		0.00		+				0.00	0.00		0.00		o				0.00	0.00		0.00		o		
Fisher's	Power		0.016		Power-50%		0.017	P-value	0.258	Power		---		Power-50%		---	P-value	0.732	Power		---		Power-50%		---	P-value	0.732	
Stouffer's	Power		0.013		Power-50%		0.012	P-value	0.353	Power		---		Power-50%		---	P-value	0.500	Power		---		Power-50%		---	P-value	0.500	
4825C/1424	3	4	13.13	6.24	5	0.00	0.00	-	-	0.086	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	8.75	5.76	-	-	0.371	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	10.00	6.83	6	5.42	3.79	-	+	0.725	6	0.00	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	3.75	3.75	4	8.75	6.33	-	-	0.303	6	0.00	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			5.50	3.48		4.60		+				0.00	0.00		0.00		o				0.00	0.00		0.00		o		
Fisher's	Power		0.031		Power-50%		0.251	P-value	0.403	Power		---		Power-50%		---	P-value	0.732	Power		---		Power-50%		---	P-value	0.732	
Stouffer's	Power		0.019		Power-50%		0.436	P-value	0.464	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 5.434, Page 3, December 15, 1994

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			o			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	Power	---		Power-50%
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value	0.500	Power	---		Power-50%
4825C/1424	2	6	4.17	4.17	5	0.00	0.00	-	+	0.363	6	4.17	4.17	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										
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			0.84	0.84		0.00			+			0.84	0.84		0.00			+											
Fisher's	Power		---		Power-50%		---	P-value	0.536	Power	---		Power-50%		---	P-value	0.536	Power	---		Power-50%		---	P-value	0.536	Power	---		Power-50%
Stouffer's	Power		---		Power-50%		---	P-value	0.450	Power	---		Power-50%		---	P-value	0.450	Power	---		Power-50%		---	P-value	0.450	Power	---		Power-50%
4825C/1424	3	4	0.00	0.00	3	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			o			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	Power	---		Power-50%
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value	0.500	Power	---		Power-50%

Table C-5.435. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. August 1992. Overstory removed 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	29.58	15.02	5	0.50	0.50	-	+	0.079	6	29.58	15.02	5	0.50	0.50	-	-	0.079	6	29.58	15.02	5	0.50	0.50	-	+	0.079				
433C/453	1	6	52.08	17.61	6	25.00	13.17	-	+	0.217	6	52.08	17.61	6	25.00	13.17	-	+	0.217	6	52.08	17.61	6	25.00	13.17	-	+	0.217				
601C/601	1	6	7.08	4.58	6	16.67	16.67	-	-	0.722	6	7.08	4.58	6	16.67	16.67	-	-	0.722	6	7.08	4.58	6	16.67	16.67	-	-	0.722				
598C/598	1	6	0.00	0.00	6	5.00	3.23	-	-	0.177	6	0.00	0.00	6	5.00	3.23	-	-	0.177	6	0.00	0.00	6	5.00	3.23	-	-	0.177				
1522C/1522	1	6	26.25	15.86	6	45.83	17.01	-	-	0.375	6	26.25	15.86	6	45.83	17.01	-	-	0.375	6	26.25	15.86	6	45.83	17.01	-	-	0.375				
Habitat Means			23.02	10.62		18.60	10.12		-			23.02	10.62		18.60	10.12		-			23.02	10.62		18.60	10.12		-					
Fisher's	Power		0.034		Power-50%	0.369	P-value		0.394 <sub>xy</sub>		Power	0.033		Power-50%	0.388	P-value		0.394 <sub>xy</sub>		Power	0.034		Power-50%	0.394	P-value		0.394 <sub>xy</sub>					
Stouffer's	Power		0.003		Power-50%	0.560	P-value		0.339		Power	0.004		Power-50%	0.557	P-value		0.339		Power	0.005		Power-50%	0.571	P-value		0.339					
4825C/1424	2	6	36.67	13.60	5	26.00	12.26	-	+	0.507	6	35.83	13.70	5	26.00	12.26	-	+	0.529	6	35.83	13.70	5	26.00	12.26	-	+	0.529				
433C/453	2	6	39.50	12.23	6	17.08	16.59	-	+	0.270	6	37.00	13.77	6	17.08	16.59	-	+	0.398	6	37.00	13.77	6	17.08	16.59	-	+	0.398				
601C/601	2	6	10.42	6.24	6	17.92	13.79	-	-	0.728	6	10.42	6.24	6	17.92	13.79	-	-	0.728	6	10.42	6.24	6	17.92	13.79	-	-	0.728				
598C/598	2	6	17.50	14.29	6	30.00	19.02	-	-	0.670	6	17.50	14.29	6	30.00	19.02	-	-	0.670	6	17.50	14.29	6	30.00	19.02	-	-	0.670				
1522C/1522	2	6	37.08	17.28	4	72.50	24.28	-	-	0.213	6	37.08	17.28	4	70.63	23.90	-	-	0.232	6	37.08	17.28	4	70.63	23.90	-	-	0.232				
Habitat Means			28.24	12.72		32.70	17.20		-			27.56	13.06		32.32	17.12		-			27.56	13.06		32.32	17.12		-					
Fisher's	Power		0.030		Power-50%	0.834	P-value		0.480		Power	0.039		Power-50%	0.586	P-value		0.479		Power	0.030		Power-50%	0.615	P-value		0.479					
Stouffer's	Power		0.014		Power-50%	0.879	P-value		0.503		Power	0.022		Power-50%	0.713	P-value		0.451		Power	0.021		Power-50%	0.738	P-value		0.451					
4825C/1424	3	4	23.13	9.81	5	66.00	17.69	-	-	0.087	4	23.13	9.81	5	66.00	17.69	-	-	0.087	4	23.13	9.81	5	66.00	17.69	-	-	0.087				
433C/453	3	2	36.25	23.75	4	13.75	13.75	-	+	0.304	2	36.25	23.75	4	13.75	13.75	-	+	0.304	2	36.25	23.75	4	13.75	13.75	-	+	0.304				
601C/601	3	4	26.88	5.04	6	64.58	14.74	-	-	0.094	4	20.62	4.49	6	62.92	15.21	-	-	0.071	4	20.62	4.49	6	62.92	15.21	-	-	0.071				
598C/598	3	6	30.00	2.24	6	57.92	17.17	-	-	0.258	6	30.00	2.24	6	57.92	17.17	-	-	0.258	6	30.00	2.24	6	57.92	17.17	-	-	0.258				
1522C/1522	3	6	26.67	12.43	4	48.12	10.67	-	-	0.230	6	26.67	12.43	4	45.00	9.13	-	-	0.273	6	26.67	12.43	4	45.00	9.13	-	-	0.273				
Habitat Means			28.60	10.64		50.08	14.82		-			27.34	10.54		49.12	14.60		-			27.34	10.54		49.12	14.60		-					
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		0.619		Power-50%	0.886	P-value		0.113		Power	0.649		Power-50%	0.876	P-value		0.112		Power	0.652		Power-50%	0.873	P-value		0.112					

x At least one site pair p-value < 0.100 in 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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Adult <i>Fucus gardneri</i> (P) (> 2cm)											Juvenile <i>Fucus gardneri</i> (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	--	-	--	--	-	--	--	CV	-				
4825C/1424	1	6	18.75	13.63	5	0.50	0.50	-	+	0.189	6	10.83	10.34	5	0.00	0.00	-	+	0.285	6	2.50	2.50	5	0.00	0.00	-	-	0.363				
453C/453	1	6	50.00	18.36	6	20.83	13.19	-	+	0.199	6	2.08	2.08	6	4.17	2.71	-	+	0.534	6	0.00	0.00	6	0.00	0.00	-	o	1.000				
601C/601	1	6	2.92	2.92	6	16.67	16.67	-	-	0.500	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				
598C/598	1	6	0.00	0.00	6	5.00	3.23	-	-	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	1	6	24.17	15.28	6	42.92	17.20	-	-	0.343	6	2.08	1.36	6	2.92	2.92	-	-	0.897	6	0.00	0.00	6	0.00	0.00	-	o	1.000				
Habitat Means			19.18	10.04		17.18	10.16		-			3.84	3.60		1.42	1.12		+			0.50	0.50		0.00	0.00	0.00	+					
Fisher's	Power		0.030		Power-50%	0.316	P-value		0.316 <sub>y</sub>		Power	0.021		Power-50%	0.058	P-value		0.395		Power	---		Power-50%	---	P-value		0.536					
Stouffer's	Power		0.006		Power-50%	0.520	P-value		0.296		Power	0.078		Power-50%	0.312	P-value		0.493		Power	---		Power-50%	---	P-value		0.450					
4825C/1424	2	6	25.83	15.45	5	26.00	12.26	-	-	0.991	6	10.00	3.93	5	0.00	0.00	-	+	0.032	6	0.00	0.00	5	0.00	0.00	-	o	1.000				
453C/453	2	5	35.00	13.06	6	17.08	16.59	-	-	0.426	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	10.42	6.24	6	17.92	13.79	-	-	0.728	6	0.00	0.00	6	0.00	0.00	-	+	0.030	6	0.00	0.00	6	0.00	0.00	-	o	1.000				
598C/598	2	6	17.50	14.29	6	30.00	19.02	-	-	0.670	6	0.00	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	37.08	17.28	4	70.63	23.90	-	-	0.232	6	0.00	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			25.16	13.28		32.32	17.12		-			2.40	1.18		0.00	0.00		+			0.00	0.00		0.00	0.00	0.00	o					
Fisher's	Power		0.057		Power-50%	0.534	P-value		0.406		Power	0.142		Power-50%	0.052	P-value		0.106		Power	---		Power-50%	---	P-value		0.732					
Stouffer's	Power		0.043		Power-50%	0.673	P-value		0.406		Power	0.107		Power-50%	0.039	P-value		0.221		Power	---		Power-50%	---	P-value		0.500					
4825C/1424	3	4	16.25	9.49	5	66.00	17.69	-	-	0.050	4	6.88	4.72	5	0.00	0.00	-	+	0.201	4	0.00	0.00	5	0.00	0.00	-	o	1.000				
453C/453	3	2	33.75	21.25	4	6.88	6.88	-	+	0.143	2	2.50	2.50	4	6.88	6.88	-	+	0.913	2	0.00	0.00	4	0.00	0.00	-	o	1.000				
601C/601	3	4	20.62	4.49	6	62.92	15.21	-	-	0.071	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	30.00	2.24	6	57.92	17.17	-	-	0.258	6	0.00	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	26.67	12.43	4	45.00	9.13	-	-	0.273	6	0.00	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			25.48	9.98		47.74	13.22		-			1.88	1.44		1.38	1.38		+			0.00	0.00		0.00	0.00	o						
Fisher's	Power		---		Power-50%	---	P-value		0.014		Power	0.009		Power-50%	0.041	P-value		0.413		Power	---		Power-50%	---	P-value		0.732					
Stouffer's	Power		0.621		Power-50%	0.861	P-value		0.154		Power	0.006		Power-50%	0.033	P-value		0.452		Power	---		Power-50%	---	P-value		0.500					


Table C-5.435. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. August 1992. Overstory removed 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.

Table C-5.435. Page 3. December 15, 1994

Myelophycus/Scytosiphon (A) (a)										Morphological Group: Fine Filamentous Browns										Fine Filamentous Browns (AE) (b)									
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	
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			o			0.00	0.00		0.00			o			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	0.83	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	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			o			0.16	0.16		0.00			-			0.16	0.16		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	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			o			0.00	0.00		0.00			o			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 Pileyella.  
x At least one site pair p-value < 0.100 in opposite direction of overall tests.  
y Direction of difference between habitat means is different than direction of overall tests.  
z Only one site pair.

Table C-5.435. Page 4. December 15, 1994



Table C-5.435. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. August 1992. Overstory removed 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	2.50	2.50	6	0.00	0.00	-	+	0.374	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	
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	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			0.50	0.50		0.38	0.38		+			0.50	0.50		0.38	0.38		+			0.00	0.00		0.00	0.00		o		
Fisher's	Power		---		Power-50%		---		P-value	0.634	Power	---		Power-50%		---		P-value	0.634	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	6.25	6.25	6	1.67	1.67	-	+	0.548	4	6.25	6.25	6	1.67	1.67	-	+	0.548	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	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			1.26	1.26		0.96	0.96		-			1.26	1.26		0.96	0.96		-			0.00	0.00		0.00	0.00		o		
Fisher's	Power		---		Power-50%		---		P-value	0.623	Power	---		Power-50%		---		P-value	0.623	Power	---		Power-50%		---		P-value	0.732	
Stouffer's	Power		---		Power-50%		---		P-value	0.484	Power	---		Power-50%		---		P-value	0.484	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 5.435, Page 5, November 15, 1994

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	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											
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	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											
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	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

Table C-5.436. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1992. Overstory removed 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	2.08	2.08	6	2.08	2.08	-	o	1.000	6	0.00	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	2.92	2.92	6	0.42	0.42	-	+	0.566	6	0.00	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	10.00	9.04	-	-	0.253	6	0.00	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			1.00	1.00		2.50	2.30	-				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		0.536	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	
Stouffer's	Power		0.009		Power-50%		---	P-value		0.458	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	15.50	14.28	6	2.92	1.87	-	-	0.456	5	0.00	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	0.83	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	
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	2.50	2.50	-	-	0.473	6	0.00	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			3.34	3.10		1.08	0.88	-	+			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%		0.003	P-value		0.469	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	
Stouffer's	Power		0.014		Power-50%		0.019	P-value		0.324	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	
4825C/1424	3	4	0.63	0.63	5	13.00	13.00	-	-	0.515	4	0.00	0.00	5	3.50	3.50	-	-	0.374	4	0.00	0.00	5	0.00	0.00	-	-	0.000	
453C/453	3	2	23.75	6.25	4	2.50	2.50	-	-	0.030	2	7.50	7.50	4	0.00	0.00	-	-	0.500	2	0.00	0.00	4	0.00	0.00	-	-	0.000	
601C/601	3	4	13.75	13.75	6	5.42	3.56	-	-	0.728	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	2.08	1.36	6	1.25	1.25	-	-	0.606	6	0.00	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	12.50	5.92	4	21.88	7.46	-	-	0.397	6	2.08	2.08	4	5.00	2.70	-	-	0.225	6	0.00	0.00	4	0.00	0.00	-	-	0.000	
Habitat Means			10.56	5.60		8.82	5.58	-	+			1.92	1.92		1.70	1.24	-				0.00	0.00		0.00	0.00	-	o		
Fisher's	Power		0.321		Power-50%		0.864	P-value		0.180	Power	0.015		Power-50%		---	P-value		0.352 y	Power	---		Power-50%		---	P-value		0.732	
Stouffer's	Power		---		Power-50%		---	P-value		0.086	Power	0.004		Power-50%		---	P-value		0.493	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-5.436. Page 1. December 15, 1994

Gigartinales Group (P) (A)										Palmaria spp. (A)										Phycodrya 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	0.00	0.00	5	3.50	3.50	-	-	0.374	4	0.00	0.00	5	0.00	0.00	-	-	1.000	4	0.00	0.00	5	0.00	0.00	-	-	1.000	
453C/453	3	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	7.50	7.50	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	2.08	2.08	4	4.38	2.77	-	-	0.284	6	0.00	0.00	4	0.63	0.63	-	-	0.391	6	0.00	0.00	4	0.00	0.00	-	-	1.000	
Habitat Means			0.42	0.42		1.58	1.26		-			1.50	1.50		0.12	0.12		-			0.00	0.00		0.00	0.00		o		
Fisher's	Power		0.017		Power-50%		---	P-value		0.326	Power	---		Power-50%		---	P-value		0.629 y	Power	---		Power-50%		---	P-value		0.732	
Stouffer's	Power		0.012		Power-50%		---	P-value		0.365	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-5.436. Page 2. December 15, 1994

Table C-5.436. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1992. Overstory removed 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			o			0.00	0.00		0.00			o			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			o			0.00	0.00		0.00			o			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			o			0.00	0.00		0.00			o			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-5.436, Page 3, December 15, 1994

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	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	2.92	2.92	6	0.42	0.42	-	+	0.566	6	0.00	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	0.83	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	
Habitat Means			1.00	1.00		0.24	0.24		+			0.00	0.00		0.00			o			0.00	0.00		0.00			o		
Fisher's	Power		---		Power-50%	---		P-value	0.522	Power	---		Power-50%	---		P-value	0.732	Power	---		Power-50%	---		Power-50%	---		P-value	0.732	
Stouffer's	Power		---		Power-50%	---		P-value	0.335	Power	---		Power-50%	---		P-value	0.500	Power	---		Power-50%	---		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	15.50	14.28	6	2.92	1.87	-	+	0.456	5	0.00	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	0.83	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	
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	2.50	2.50	-	-	0.473	6	0.00	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			3.34	3.10		1.08	0.88		+			0.00	0.00		0.00			o			0.00	0.00		0.00			o		
Fisher's	Power		0.005		Power-50%	0.004	P-value	0.469	Power	---		Power-50%	---		P-value	0.732	Power	---		Power-50%	---		Power-50%	---		P-value	0.732		
Stouffer's	Power		0.012		Power-50%	0.019	P-value	0.324	Power	---		Power-50%	---		P-value	0.500	Power	---		Power-50%	---		Power-50%	---		P-value	0.500		
4825C/1424	3	4	0.63	0.63	5	8.50	8.50	-	-	0.554	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	16.25	1.25	4	2.50	2.50	-	+	0.051	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	13.75	13.75	6	5.42	3.56	-	+	0.728	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	2.08	1.36	6	0.00	0.00	-	+	0.178	6	0.00	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	10.00	5.36	4	11.25	6.81	-	-	0.916	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	5.62	5.63	-	-	0.391	
Habitat Means			8.56	4.50		5.54	4.28		+			0.00	0.00		0.00			o			0.00	0.00		1.12	1.12		-		
Fisher's	Power		---		Power-50%	---		P-value	0.097	Power	---		Power-50%	---		P-value	0.732	Power	---		Power-50%	---		Power-50%	---		P-value	0.550	
Stouffer's	Power		---		Power-50%	---		P-value	0.020	Power	---		Power-50%	---		P-value	0.500	Power	---		Power-50%	---		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-5.436, Page 4, December 15, 1994

Table C-5.436. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1992. Overstory removed 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	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	2.08	2.08	6	0.00	0.00	-	+	0.363
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	2.92	2.92	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	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.83	0.83	-	-	0.363
Habitat Means			0.00	0.00	0.00	0.00	0.00	o			0.00	0.00	0.00	0.08	0.08	-				1.00	1.00	0.16	0.16	+				
Fisher's	Power		---		Power-50%	---	P-value	0.732	Power	---			Power-50%	---	P-value	0.536	Power	---		Power-50%	---	P-value	0.441					
Stouffer's	Power		---		Power-50%	---	P-value	0.500	Power	---			Power-50%	---	P-value	0.417	Power	---		Power-50%	---	P-value	0.307					
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	15.50	14.28	6	2.92	1.87	-	-	0.456
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	0.83	0.83	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	0.42	0.42	4	2.50	2.50	-	-	0.473
Habitat Means			0.00	0.00	0.00	0.00	0.00	o			0.00	0.00	0.00	0.00	0.00	o			3.34	3.10	1.08	0.88	+					
Fisher's	Power		---		Power-50%	---	P-value	0.732	Power	---			Power-50%	---	P-value	0.732	Power	0.003		Power-50%	0.001	P-value	0.469					
Stouffer's	Power		---		Power-50%	---	P-value	0.500	Power	---			Power-50%	---	P-value	0.500	Power	0.011		Power-50%	0.016	P-value	0.324					
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	0.63	0.63	5	8.50	8.50	-	-	0.554
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	16.25	1.25	4	2.50	2.50	-	-	0.051
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	13.75	13.75	6	5.42	3.56	-	+	0.728
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	2.08	1.36	6	0.00	0.00	-	-	0.178
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	10.00	5.36	4	5.62	4.13	-	+	0.703
Habitat Means			0.00	0.00	0.00	0.00	0.00	o			0.00	0.00	0.00	0.00	0.00	o			8.56	4.50	4.40	3.74	+					
Fisher's	Power		---		Power-50%	---	P-value	0.732	Power	---			Power-50%	---	P-value	0.732	Power	---		Power-50%	---	P-value	0.076					
Stouffer's	Power		---		Power-50%	---	P-value	0.500	Power	---			Power-50%	---	P-value	0.500	Power	---		Power-50%	---	P-value	0.015					

(a) Genera not separated.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.436. Page 4. December 15, 1994

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	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	1.00	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	0.00	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	0.42	0.42	4	5.62	4.13	-	-	0.158				
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.08	0.08		1.32	1.02		-					
Fisher's	Power		---		Power-50%		---	P-value	0.732	Power		---		Power-50%		---	P-value	0.732	Power	0.025		Power-50%		---	P-value	0.247						
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power		---		Power-50%		---	P-value	0.500	Power	0.019		Power-50%		---	P-value	0.338						

(b) Genera not separated.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.436. Page 5. December 15, 1994

Table C-5.436. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1992. Overstory removed July 1990. (Continued.)

Halosaccion glandiforme (A)											Halosaccion spp. (A)								Morphological Group: <i>Fine Filamentous Reds</i>											
Site Pair	Mvd	N	C	SE	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	1.00	1.00	-	-	0.374	4	0.00	0.00	5	0.00	0.00	-	-	1.000	4	0.00	0.00	5	0.00	0.00	-	-	1.000		
453C/453	3	2	0.00	0.00	4	0.00	0.00	-	-	1.000	2	0.00	0.00	4	0.00	0.00	-	-	1.000	2	0.00	0.00	4	0.00	0.00	-	-	1.000		
601C/601	3	4	0.00	0.00	6	0.00	0.00	-	-	1.000	4	0.00	0.00	6	0.00	0.00	-	-	1.000	4	0.00	0.00	6	0.00	0.00	-	-	1.000		
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	-	1.000	6	0.00	0.00	6	0.00	0.00	-	-	1.000	6	0.00	0.00	6	1.25	1.25	-	-	0.363		
1522C/1522	3	6	0.42	0.42	4	5.62	4.13	-	-	0.158	6	0.00	0.00	4	0.00	0.00	-	-	1.000	6	0.00	0.00	4	0.00	0.00	-	-	1.000		
Habitat Means			0.08	0.08		1.32	1.02		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.26	0.26		-			
Fisher's	Power		0.025		Power-50%	---			P-value	0.247	Power	---		Power-50%	---			P-value	0.732	Power	---		Power-50%	---			P-value	0.536		
Stouffer's	Power		0.019		Power-50%	---			P-value	0.338	Power	---		Power-50%	---			P-value	0.500	Power	---		Power-50%	---			P-value	0.240		

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

Table C-5.436, Page 7, December 15, 1994

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	2.08	2.08	-	-	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	9.17	9.17	-	-	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		2.26	2.26		-			0.00	0.00		0.00	0.00		o			
Fisher's	Power		---		Power-50%		---		P-value	0.732	Power	---		Power-50%		---		P-value	0.359	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	6	0.00	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	1.25	1.25	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	-	1.000	6	0.00	0.00	6	0.00	0.00	-	-	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		0.26	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	0.240	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-5.436, Page 8, December 15, 1994

Table C-5.436. Algal Percent Cover. Rhodophyta. Prince William Sound, Sheltered Rocky, August 1992. Overstory removed July 1990. (Continued.)

Hilgenbrandia sp. (P)										Petrocelia (P)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"

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

Table C-5.437. Algal Percent Cover. Invertebrates. Prince William Sound. Sheltered Rocky. August 1992. Overstory removed 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	N	C	SE	CV	D	P															
4825C/1424	1	6	3.33	2.20	5	42.00	17.31	-	-	0.044	6	2.08	1.19	5	1.00	0.61	-	-	0.588	6	0.00	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	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	6	0.00	0.00	6	0.00	0.00	-	o	1.000												
601C/601	1	6	16.25	12.31	6	4.58	2.27	-	-	0.372	6	0.83	0.83	6	2.08	2.08	-	-	0.756	6	0.00	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	8.75	5.07	6	17.50	12.62	-	-	0.477	6	0.00	0.00	6	3.75	1.91	-	-	0.044	6	0.00	0.00	6	0.83	0.53	-	-	0.175	6	0.00	0.00	6	0.83	0.53	-	-	0.175												
1522C/1522	1	6	13.75	8.31	6	8.75	6.32	-	-	0.826	6	2.50	2.04	6	0.42	0.42	-	-	0.385	6	0.42	0.42	6	1.67	1.05	-	-	0.392	6	0.42	0.42	6	1.67	1.05	-	-	0.392												
Habitat Means			8.70	5.84		14.66	7.78	+				1.08	0.80		1.46	1.00	-				0.08	0.08		0.50	0.32	-				0.08	0.08		0.50	0.32	-														
Fisher's	Power		0.022		Power-50%	0.468	P-value	0.651		Power	0.048		Power-50%	0.050	P-value	0.280		Power	0.061		Power-50%	0.057		Power-50%	---	P-value	0.266		Power	0.061		Power-50%	---	P-value	0.266		Power	0.061		Power-50%	---	P-value	0.266						
Stouffer's	Power		0.015		Power-50%	0.645	P-value	0.651		Power	---		Power-50%	---	P-value	0.084		Power	---		Power-50%	---		Power-50%	---	P-value	0.109		Power	---		Power-50%	---	P-value	0.109		Power	---		Power-50%	---	P-value	0.109						
4825C/1424	2	6	15.42	13.52	5	43.00	17.42	-	-	0.169	6	0.42	0.42	5	0.50	0.50	-	-	0.900	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	2	5	20.50	14.02	6	30.83	14.18	-	-	0.567	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	2.50	1.94	6	8.75	3.15	-	-	0.194	5	2.50	1.94	6	8.75	3.15	-	-	0.194												
601C/601	2	6	22.08	15.43	6	3.75	1.68	-	+	0.315	6	0.42	0.42	6	0.83	0.83	-	-	0.824	6	2.08	1.00	6	9.17	3.00	-	-	0.055	6	2.08	1.00	6	9.17	3.00	-	-	0.055												
598C/598	2	6	5.00	2.81	6	14.17	7.21	-	-	0.341	6	1.25	0.85	6	0.42	0.42	-	+	0.462	6	8.75	4.69	6	9.58	4.49	-	-	0.876	6	8.75	4.69	6	9.58	4.49	-	-	0.876												
1522C/1522	2	6	9.58	4.30	4	1.88	1.88	-	+	0.193	6	0.42	0.42	4	0.00	0.00	-	+	0.363	6	15.42	6.50	4	0.00	0.00	-	+	0.023	6	15.42	6.50	4	0.00	0.00	-	+	0.023												
Habitat Means			14.52	10.00		18.74	8.48	-				0.50	0.42		0.34	0.34	-				6.02	3.08		5.52	2.14	-					6.02	3.08		5.52	2.14	-													
Fisher's	Power		0.102		Power-50%	0.531	P-value	0.316		Power	0.027		Power-50%	0.124	P-value	0.443		Power	0.228		Power-50%	0.021		Power-50%	0.482	P-value	0.177		Power	0.228		Power-50%	0.021		Power-50%	0.482	P-value	0.177		Power	0.228		Power-50%	0.021		Power-50%	0.482	P-value	0.177
Stouffer's	Power		0.040		Power-50%	0.661	P-value	0.233		Power	0.059		Power-50%	0.314	P-value	0.246		Power	0.021		Power-50%	0.021		Power-50%	0.642	P-value	0.257		Power	0.021		Power-50%	0.021		Power-50%	0.642	P-value	0.257		Power	0.021		Power-50%	0.021		Power-50%	0.642	P-value	0.257
4825C/1424	3	4	1.88	1.88	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	4	0.00	0.00	5	0.00	0.00	-	o	1.000												
453C/453	3	2	6.25	6.25	4	5.62	4.13	-	+	0.936	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	10.00	5.86	-	-	0.183	2	0.00	0.00	4	10.00	5.86	-	-	0.183												
601C/601	3	4	1.25	1.25	6	2.08	2.08	-	-	0.966	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	3.75	2.39	6	1.25	1.25	-	+	0.326	4	3.75	2.39	6	1.25	1.25	-	+	0.326												
598C/598	3	6	5.42	4.93	6	5.42	3.56	-	o	0.913	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	5.00	3.59	6	6.25	2.87	-	-	0.773	6	5.00	3.59	6	6.25	2.87	-	-	0.773												
1522C/1522	3	6	2.50	1.71	4	0.63	0.63	-	+	0.538	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	4.17	1.90	4	0.00	0.00	-	+	0.077	6	4.17	1.90	4	0.00	0.00	-	+	0.077												
Habitat Means			3.48	3.22		2.74	2.08	+				0.00	0.00		0.00	0.00	o				2.60	1.58		3.52	2.02	+					2.60	1.58		3.52	2.02	+													
Fisher's	Power		0.045		Power-50%	0.245	P-value	0.445		Power	---		Power-50%	---	P-value	0.732		Power	0.056		Power-50%	0.017		Power-50%	0.241	P-value	0.240		Power	0.056		Power-50%	0.017		Power-50%	0.241	P-value	0.240		Power	0.056		Power-50%	0.017		Power-50%	0.241	P-value	0.240
Stouffer's	Power		0.078		Power-50%	0.494	P-value	0.423		Power	---		Power-50%	---	P-value	0.500		Power	0.017		Power-50%	0.017		Power-50%	0.359	P-value	0.631		Power	0.017		Power-50%	0.017		Power-50%	0.359	P-value	0.631		Power	0.017		Power-50%	0.017		Power-50%	0.359	P-value	0.631

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

Table C-5.437, Page 1, December 15, 1994

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	0.00	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	0.42	0.42	6	0.83	0.53	-	-	0.549	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	0.83	0.83	6	0.00	0.00	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	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			0.24	0.24		0.16	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	0.608		Power	---		Power-50%	---		Power-50%	---	P-value	0.732	
Stouffer's	Power		---		Power-50%	---	P-value	0.500		Power	0.000		Power-50%	---	P-value	0.285		Power	---		Power-50%	---		Power-50%	---	P-value	0.500	
4825C/1424	2	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
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	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	0.00	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			0.08	0.08		0.26	0.26		+			0.00	0.00		0.08	0.08		-			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%	---	P-value	0.632		Power	---		Power-50%	---	P-value	0.536		Power	---		Power-50%	---		Power-50%	---	P-value	0.732	
Stouffer's	Power		---		Power-50%	---	P-value	0.719		Power	---		Power-50%	---	P-value	0.417		Power	---		Power-50%	---		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%	---		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%	---		Power-50%	---	P-value	0.500	

Table C-5.438. Algal Percent Cover. Substrates. Prince William Sound. Sheltered Rocky. August 1992. Overstory removed 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	62.50	16.48	5	56.50	17.51	-	+	0.800	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000			
453C/453	1	6	44.58	18.49	6	72.50	12.91	-	-	0.241	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000			
601C/601	1	6	72.50	12.67	6	75.42	15.32	-	-	0.936	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000			
598C/598	1	6	90.42	4.85	6	72.92	13.35	-	+	0.158	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000			
1522C/1522	1	6	57.08	13.88	6	33.33	19.95	-	+	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	0.00	-	o	1.000			
Habitat Means			65.42	13.30		62.12	15.82		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		0.00		o			
Fisher's	Power		0.184		Power-50%		0.960	P-value		0.262	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732				
Stouffer's	Power		0.116		Power-50%		0.974	P-value		0.237	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500				
4825C/1424	2	6	37.08	15.23	5	30.50	16.31	-	+	0.671	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.42	0.42	5	0.00	0.00	0.00	-	-	0.363			
453C/453	2	5	22.00	3.48	6	40.42	12.47	-	-	0.423	5	0.00	0.30	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000			
601C/601	2	6	64.17	15.22	6	67.92	13.88	-	-	0.825	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000			
598C/598	2	6	67.50	12.43	6	44.58	12.15	-	+	0.207	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000			
1522C/1522	2	6	30.83	10.70	4	23.13	23.13	-	+	0.452	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000			
Habitat Means			44.32	11.40		41.30	15.60		+			0.00	0.00		0.00	0.00		o			0.08	0.08		0.00	0.00		0.00		+			
Fisher's	Power		0.220		Power-50%		0.942	P-value		0.341	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.536				
Stouffer's	Power		0.164		Power-50%		0.950	P-value		0.237	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.450				
4825C/1424	3	4	35.62	16.88	5	21.00	16.74	-	-	0.425	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	19.37	19.37	5	0.00	0.00	0.00	-	-	0.391			
453C/453	3	2	33.75	23.75	4	60.62	14.70	-	-	0.343	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000			
601C/601	3	4	53.75	16.28	6	17.92	11.55	-	-	0.077	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000			
598C/598	3	6	44.17	9.72	6	23.75	11.97	-	-	0.140	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000			
1522C/1522	3	6	22.50	8.11	4	18.12	16.47	-	+	0.645	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	24.17	15.77	4	0.00	0.00	0.00	-	-	0.182			
Habitat Means			37.98	14.96		28.28	14.30		+			0.00	0.00		0.00	0.00		o			8.72	7.04		0.00	0.00		0.00		-			
Fisher's	Power		---		Power-50%		---	P-value		0.063	Power	---		Power-50%		---	P-value		0.732	Power	0.019		Power-50%		0.011	P-value		0.271				
Stouffer's	Power		0.411		Power-50%		0.866	P-value		0.104	Power	---		Power-50%		---	P-value		0.500	Power	0.015		Power-50%		0.010	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.

Table C-5-438, Page 1, December 15, 1994

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	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	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	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	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	0.00	-	o	1.000			
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			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		0.732	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	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	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	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	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	0.00	-	o	1.000			
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			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		0.732	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	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	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	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	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	0.00	-	o	1.000			
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			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		0.732	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-5.438. Page 1. December 15, 1994

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	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	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	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	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	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00		o				0.00	0.00		0.00		o				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		0.732	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	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	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	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	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	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00		o				0.00	0.00		0.00		o				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		0.732	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	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	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	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	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	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00		o				0.00	0.00		0.00		o				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		0.732	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	



Table C-5.438. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound, Sheltered Rocky, August 1992. Overstory removed July 1990. (Continued.)

Site Pair	Mvd	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
4825C/1424	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	62.50	16.48	5	56.50	17.51	-	+	0.800									
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	44.58	18.49	6	72.50	12.91	-	-	0.241									
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	72.50	12.67	6	75.42	15.32	-	-	0.936									
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	90.42	4.85	6	72.92	13.35	-	+	0.158									
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	57.08	13.88	6	33.33	19.95	-	+	0.282									
Habitat Means			0.00	0.00		0.00			o			65.42	13.30		62.12	15.82		+										
Fisher's	Power		---		Power-50%		---	P-value	0.732		Power	0.178		Power-50%		0.955	P-value	0.262		Power	---		Power-50%		---	P-value		
Stouffer's	Power		---		Power-50%		---	P-value	0.500		Power	0.105		Power-50%		0.964	P-value	0.237		Power	---		Power-50%		---	P-value		
4825C/1424	2	6	0.42	0.42	5	0.00	0.00	-	-	0.363	6	37.50	15.06	5	30.50	16.31	-	+	0.648									
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	22.00	3.48	6	40.42	12.47	-	-	0.423									
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	64.17	15.22	6	67.92	13.88	-	-	0.815									
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	67.50	12.43	6	44.58	12.15	-	+	0.207									
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	30.83	10.70	4	23.13	23.13	-	-	0.452									
Habitat Means			0.08	0.08		0.00			+			44.40	11.38		41.30	15.60		.										
Fisher's	Power		---		Power-50%		---	P-value	0.536		Power	0.256		Power-50%		0.962	P-value	0.336		Power	---		Power-50%		---	P-value		
Stouffer's	Power		---		Power-50%		---	P-value	0.450		Power	0.195		Power-50%		0.971	P-value	0.236		Power	---		Power-50%		---	P-value		
4825C/1424	3	4	19.37	19.37	5	0.00	0.00	-	+	0.391	4	55.00	19.84	5	21.00	16.74	-	+	0.182									
453C/453	3	2	0.00	0.00	4	0.00	0.00	-	o	1.000	2	33.75	23.75	4	60.62	14.70	-	-	0.343									
601C/601	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	53.75	16.28	6	17.92	11.55	-	+	0.077									
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	44.17	9.72	6	23.75	11.97	-	+	0.140									
1522C/1522	3	6	24.17	15.77	4	0.00	0.00	-	+	0.182	6	46.67	13.72	4	18.12	16.47	-	+	0.203									
Habitat Means			8.72	7.04		0.00			+			46.70	16.66		28.28	14.30		.										
Fisher's	Power		0.023		Power-50%		0.020	P-value	0.271		Power	---		Power-50%		---	P-value	0.017		Power	---		Power-50%		---	P-value		
Stouffer's	Power		0.016		Power-50%		0.014	P-value	0.346		Power	---		Power-50%		---	P-value	0.066		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-5.438. Page 3. December 15, 1994

Table C-5.439. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed 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	0.06	0.06	-	-	0.374	6	0.50	0.22	5	0.60	0.60	-	-	0.870	6	25.00	11.24	5	7.50	7.50	-	-	0.282				
453C/453	1	6	0.11	0.06	6	0.00	0.00	-	+	0.095	6	1.33	0.33	6	0.33	0.21	-	+	0.030	6	45.00	15.18	6	18.33	16.41	-	+	0.266				
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	3.33	2.39	6	16.67	16.67	-	-	0.617				
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.17	0.17	6	0.00	0.00	-	+	0.363	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	0.67	0.21	6	0.50	0.22	-	-	0.600	6	43.33	18.01	6	47.08	21.08	-	-	0.925				
Habitat Means			0.02	0.01		0.01	0.01	-	+			0.63	0.23		0.32	0.24	-				23.40	9.44		17.92	12.34	-	+					
Fisher's	Power		0.011		Power-50%		0.011	P-value		0.384	Power	---		Power-50%		---	P-value		0.035	Power	0.294		Power-50%		0.603	P-value		0.205				
Stouffer's	Power		0.001		Power-50%		0.001	P-value		0.223	Power	---		Power-50%		---	P-value		0.014	Power	---		Power-50%		---	P-value		0.095				
4825C/1424	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.80	0.20	5	0.60	0.24	-	+	0.545	5	57.00	18.83	5	33.00	20.22	-	+	0.425				
453C/453	2	5	0.22	0.08	6	0.09	0.06	-	+	0.202	5	2.20	0.37	6	1.17	0.48	-	+	0.134	5	49.50	12.00	6	15.83	9.80	-	-	0.040				
601C/601	2	6	0.00	0.00	4	0.07	0.07	-	-	0.391	6	0.83	0.17	4	1.00	0.41	-	-	0.676	6	9.58	5.68	4	55.63	22.72	-	-	0.074				
598C/598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.80	0.20	5	0.60	0.24	-	+	0.545	5	20.00	13.94	5	8.50	6.10	-	+	0.453				
1522C/1522	2	6	0.08	0.05	6	0.07	0.05	-	+	0.932	6	1.33	0.21	6	1.50	0.50	-	-	0.765	6	55.42	14.07	6	83.33	16.67	-	-	0.167				
Habitat Means			0.06	0.03		0.05	0.04	-	+			1.19	0.23		0.97	0.38	-	+			38.30	12.90		39.24	15.10	-	+					
Fisher's	Power		0.043		Power-50%		0.165	P-value		0.502	Power	0.376		Power-50%		1.000	P-value		0.259	Power	0.285		Power-50%		0.744	P-value		0.167xy				
Stouffer's	Power		0.013		Power-50%		0.160	P-value		0.310	Power	0.301		Power-50%		1.000	P-value		0.117	Power	0.077		Power-50%		0.804	P-value		0.140				
4825C/1424	3	5	0.08	0.05	3	0.44	0.11	-	-	0.014	5	1.60	0.24	3	4.33	1.20	-	-	0.027	5	96.50	3.50	3	98.33	1.67	-	-	0.933				
453C/453	3	4	0.10	0.07	4	0.22	0.05	-	-	0.208	4	1.75	0.48	4	2.00	0.00	-	-	0.638	4	72.50	21.19	4	36.88	19.37	-	-	0.257				
601C/601	3	5	0.09	0.05	3	0.10	0.10	-	-	0.887	5	1.60	0.24	3	1.33	0.33	-	+	0.537	5	49.00	16.97	3	70.83	26.71	-	-	0.474				
598C/598	3	4	0.19	0.07	5	0.05	0.05	-	+	0.106	4	2.00	0.41	5	1.20	0.20	-	+	0.101	4	76.25	20.55	5	73.00	17.38	-	-	0.901				
1522C/1522	3	6	0.02	0.02	5	0.18	0.06	-	-	0.025	6	1.00	0.26	5	2.20	0.49	-	-	0.049	6	65.00	20.22	5	70.50	19.27	-	-	0.730				
Habitat Means			0.09	0.05		0.20	0.07	-				1.59	0.33		2.21	0.45	-				71.86	16.50		69.90	16.90	-	-					
Fisher's	Power		---		Power-50%		---	P-value		0.005	Power	---		Power-50%		---	P-value		0.039	Power	0.067		Power-50%		0.376	P-value		0.639 y				
Stouffer's	Power		0.592		Power-50%		0.611	P-value		0.399	Power	0.394		Power-50%		0.999	P-value		0.673	Power	0.049		Power-50%		0.492	P-value		0.673				

(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.

Table C-5.439. Page 1. December 15, 1994

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	1.98	5	30.00	18.97	-	-	0.311	6	72.08	10.89	5	62.50	17.43	-	+	0.741	6	25.00	11.24	5	7.00	7.00	-	-	0.269	
453C/453	1	6	6.67	5.73	6	7.50	3.87	-	-	0.717	6	48.33	12.31	6	74.17	15.63	-	-	0.252	6	45.00	15.18	6	18.33	16.41	-	-	0.266	
601C/601	1	6	5.42	2.08	6	2.08	1.00	-	+	0.307	6	91.25	2.12	6	81.25	16.28	-	+	0.769	6	3.33	2.39	6	16.67	16.67	-	-	0.617	
598C/598	1	6	8.75	2.94	6	2.50	1.29	-	+	0.099	6	90.83	2.79	6	97.50	1.29	-	-	0.073	6	0.42	0.42	6	0.00	0.00	-	-	0.363	
1522C/1522	1	6	16.25	15.26	6	5.42	3.44	-	+	0.576	6	40.42	17.00	6	47.50	18.82	-	-	0.826	6	43.33	18.01	6	47.08	21.08	-	-	0.925	
Habitat Means			8.02	5.60		9.50	5.72					68.58	9.02		72.60	13.88		-			23.40	9.44		17.82	12.24		-		
Fisher's	Power		0.131		Power-50%		0.516	P-value		0.198 y	Power	0.056		Power-50%		0.981	P-value		0.155	Power	0.309		Power-50%		0.573	P-value		0.200	
Stouffer's	Power		---		Power-50%		---	P-value		0.097	Power	---		Power-50%		---	P-value		0.027	Power	---		Power-50%		---	P-value		0.094	
4825C/1424	2	5	2.00	1.46	5	11.50	4.44	-	-	0.073	5	41.00	17.62	5	55.50	17.68	-	-	0.600	5	57.00	18.83	5	33.00	20.22	-	+	0.425	
453C/453	2	5	6.50	3.59	6	23.75	7.79	-	-	0.079	5	44.00	10.51	6	60.42	10.32	-	-	0.263	5	49.50	12.00	6	5.83	3.46	-	+	0.003	
601C/601	2	6	16.25	6.01	4	6.88	3.13	-	+	0.369	6	74.17	8.51	4	37.50	21.77	-	+	0.117	6	9.58	5.68	4	55.63	22.72	-	-	0.074	
598C/598	2	5	22.50	15.71	5	7.00	2.67	-	+	0.326	5	57.50	18.23	5	84.50	8.19	-	-	0.199	5	20.00	13.94	5	8.50	6.10	-	+	0.453	
1522C/1522	2	6	20.00	11.22	6	0.83	0.83	-	+	0.070	6	24.58	10.28	6	15.83	15.83	-	-	0.400	6	51.25	14.81	6	80.42	16.26	-	-	0.200	
Habitat Means			13.46	7.60		10.00	3.76					48.26	13.02		50.74	14.76		-			37.48	13.04		36.66	13.76		+		
Fisher's	Power		0.167		Power-50%		0.505	P-value		0.179x	Power	0.096		Power-50%		0.486	P-value		0.309	Power	---		Power-50%		---	P-value		0.034x	
Stouffer's	Power		0.025		Power-50%		0.622	P-value		0.434	Power	0.039		Power-50%		0.587	P-value		0.130	Power	---		Power-50%		---	P-value		0.054	
4825C/1424	3	4	0.00	0.00	3	0.00	0.00	-	-	0.000	5	3.50	3.50	3	1.67	1.67	-	+	0.933	5	82.50	12.92	3	82.50	11.81	-	-	0.898	
453C/453	3	5	0.00	0.00	4	6.88	3.44	-	-	0.089	4	27.50	21.19	4	56.25	17.28	-	-	0.325	4	71.88	20.95	4	31.25	21.47	-	+	0.213	
601C/601	3	5	1.00	0.61	3	0.00	0.00	-	-	0.178	5	50.00	17.05	3	4.17	2.20	-	-	0.114	5	19.00	6.35	3	68.33	29.20	-	-	0.075	
598C/598	3	4	5.00	5.00	5	0.00	0.00	-	+	0.391	4	18.75	15.60	5	1.00	0.61	-	+	0.340	4	47.50	14.75	5	70.50	18.19	-	-	0.276	
1522C/1522	3	6	0.42	0.42	5	2.50	2.50	-	-	0.538	6	23.75	15.24	5	27.00	18.68	-	-	0.991	6	65.00	20.22	5	67.50	18.25	-	-	0.917	
Habitat Means			1.28	1.20		1.88	1.18		-			24.72	14.52		18.04	8.10		+			57.18	15.06		64.02	19.80		-		
Fisher's	Power		0.026		Power-50%		0.056	P-value		0.369	Power	0.092		Power-50%		0.199	P-value		0.251	Power	0.139		Power-50%		0.365	P-value		0.177	
Stouffer's	Power		0.002		Power-50%		0.104	P-value		0.479	Power	0.071		Power-50%		0.378	P-value		0.276	Power	0.082		Power-50%		0.498	P-value		0.262	

Table C-5.439. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed May 1991. (Continued.)

Site Pair	Mvd	N	Annuals (A)							Ephemerals (AE)																			
			C	SE	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	0.50	0.50	-	-	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	0.00	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		0.10	0.10	-				0.00	0.00		0.10	0.10	-												
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	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	0.00	0.00	6	10.00	9.04	-	-	0.253	5	0.00	0.00	6	10.00	9.04	-	o	0.253										
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	4.17	2.71	6	2.92	2.45	-	+	0.794	6	1.67	1.67	6	0.00	0.00	-	o	0.363										
Habitat Means			0.84	0.54		2.58	2.30	-				0.34	0.34		2.00	1.80	-												
Fisher's	Power		0.001		Power-50%		0.003	P-value	0.503		Power	0.000		Power-50%		---	P-value	0.561		Power	---		Power-50%		---	P-value			
Stouffer's	Power		0.001		Power-50%		0.002	P-value	0.290		Power	0.000		Power-50%		---	P-value	0.338		Power	---		Power-50%		---	P-value			
4825C/1424	3	5	14.00	13.38	3	15.83	12.28	-	-	0.751	5	14.00	13.38	3	0.00	0.00	-	+	0.297										
453C/453	3	4	0.63	0.63	4	5.63	3.59	-	-	0.277	4	0.00	0.00	4	5.63	3.59	-	-	0.192										
601C/601	3	5	30.00	17.87	3	2.50	2.50	-	+	0.326	5	30.00	17.87	3	2.50	2.50	-	+	0.326										
598C/598	3	4	28.75	14.88	5	2.50	2.50	-	+	0.070	4	28.75	14.88	5	2.50	2.50	-	+	0.070										
1522C/1522	3	6	0.00	0.00	5	3.00	2.42	-	-	0.218	6	0.00	0.00	5	2.00	2.00	-	-	0.374										
Habitat Means			14.68	9.36		5.88	4.66	-				14.56	9.24		2.52	2.12	-	+											
Fisher's	Power		0.037		Power-50%		0.064	P-value	0.376xy		Power	0.038		Power-50%		0.022	P-value	0.141		Power	---		Power-50%		---	P-value			
Stouffer's	Power		0.021		Power-50%		0.203	P-value	0.776		Power	0.018		Power-50%		0.071	P-value	0.181		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-5.440. Algal Percent Cover. Chlorophyta. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed 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.

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	0.50	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	0.00	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		0.10	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	0.542		Power	---		Power-50%		---	P-value	0.732		Power	---		Power-50%		---	P-value	0.732		
Stouffer's	Power		---		Power-50%		---	P-value	0.451		Power	---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---	P-value	0.500		
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	5	0.00	0.00	5	0.00	0.00	-	o	1.000	
453C/453	2	5	0.00	0.00	6	10.00	9.04	-	-	0.253	5	0.00	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	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	
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	5	0.00	0.00	5	0.00	0.00	-	o	1.000	
1522C/1522	2	6	4.17	2.71	6	2.50	2.50	-	-	0.608	6	0.00	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			0.84	0.54		2.50	2.30	-				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%		0.003	P-value	0.530		Power	---		Power-50%		---	P-value	0.732		Power	---		Power-50%		---	P-value	0.732		
Stouffer's	Power		0.000		Power-50%		0.001	P-value	0.308		Power	---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---	P-value	0.500		
4825C/1424	3	5	14.00	13.38	3	0.00	0.00	-	+	0.297	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	
453C/453	3	4	0.63	0.63	4	5.63	3.59	-	-	0.277	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	
601C/601	3	5	30.00	17.87	3	2.50	2.50	-	+	0.326	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	
598C/598	3	4	28.75	14.88	5	2.50	2.50	-	+	0.070	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	
1522C/1522	3	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	6	0.00	0.00	5	0.00	0.00	-	o	1.000	
Habitat Means			14.68	9.36		2.52	2.12	-				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%		0.070	P-value	0.137		Power	---		Power-50%		---	P-value	0.732		Power	---		Power-50%		---	P-value	0.732		
Stouffer's	Power		0.053		Power-50%		0.215	P-value	0.154		Power	---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---	P-value	0.500		

(a) Kormannia, Monostroma, Ulva and Ulvaria.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.440. Page 1, December 15, 1994

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	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	
453C/453	2	5	0.00	0.00	6	10.00	9.04	-	o	0.253	5	0.00	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	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	
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	5	0.00	0.00	5	0.00	0.00	-	o	1.000	
1522C/1522	2	6	4.17	2.71	6	2.50	2.50	-	o	0.608	6	2.50	2.50	6	2.50	2.50	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	
Habitat Means			0.84	0.54		2.50	2.30		o			0.50	0.50		0.50	0.50		o			0.00	0.00		0.00	0.00		o		
Fisher's	Power		0.000		Power-50%		0.001	P-value	0.530		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	0.308		Power	---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---	P-value	0.500		
4825C/1424	3	5	14.00	13.38	3	0.00	0.00	-	+	0.297	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	
453C/453	3	4	0.63	0.63	4	5.63	3.59	-	+	0.277	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	
601C/601	3	5	30.00	17.87	3	2.50	2.50	-	+	0.326	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	
598C/598	3	4	28.75	14.88	5	2.50	2.50	-	+	0.070	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	
1522C/1522	3	6	0.00	0.00	5	2.00	2.00	-	o	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	
Habitat Means			14.68	9.36		2.52	2.12		+			0.12	0.12		0.00	0.00		+			0.00	0.00		0.00	0.00		o		
Fisher's	Power		0.059		Power-50%		0.060	P-value	0.137		Power	---		Power-50%		---	P-value	0.550		Power	---		Power-50%		---	P-value	0.732		
Stouffer's	Power		0.057		Power-50%		0.223	P-value	0.154		Power	---		Power-50%		---	P-value	0.325		Power	---		Power-50%		---	P-value	0.500		

(a) Genera not separated.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.440. Page 2, December 15, 1994

Table C-5.440. Algal Percent Cover. Chlorophyta. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed May 1991. (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	-	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	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	-	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	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	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
453C/453	2	5	0.00	0.00	6	10.00	9.04	-	-	0.253	5	0.00	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	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
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	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1522C/1522	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
Habitat Means			0.34	0.34		2.00	1.80		-			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	0.561	Power	---		Power-50%		---		P-value	0.732	Power	---		Power-50%		---		P-value	0.732
Stouffer's	Power		0.000		Power-50%		---		P-value	0.338	Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500
4825C/1424	3	5	14.00	13.38	3	0.00	0.00	-	+	0.297	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	+	0.297
453C/453	3	4	0.00	0.00	4	5.63	3.59	-	+	0.192	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	+	0.192
601C/601	3	5	30.00	17.87	3	2.50	2.50	-	+	0.326	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	+	0.326
598C/598	3	4	28.75	14.88	5	2.50	2.50	-	+	0.070	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	+	0.070
1522C/1522	3	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	6	0.00	0.00	5	0.00	0.00	-	+	0.374
Habitat Means			14.56	9.24		2.52	2.12		+			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%		0.017		P-value	0.141	Power	---		Power-50%		---		P-value	0.732	Power	---		Power-50%		---		P-value	0.732
Stouffer's	Power		0.015		Power-50%		0.072		P-value	0.183	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-5.440. Page 3. December 15, 1994

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	0.50	0.50	-	-	0.374	6	0.00	0.00	5	0.50	0.50	-	-	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	0.00	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		0.10	0.10		-			0.00	0.00		0.10	0.10		-														
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	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	0.00	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	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	0.00	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	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													
453C/453	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													
601C/601	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													
598C/598	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													
1522C/1522	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													
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			

**Table C-5.441. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed 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.

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	25.00	11.24	5	5.50	5.50	-	+	0.229	6	25.00	11.24	5	5.50	5.50	-	+	0.229	6	25.00	11.24	5	5.50	5.50	-	-	0.229				
453C/453	1	6	38.75	14.69	6	18.33	16.41	-	+	0.350	6	38.75	14.69	6	18.33	16.41	-	+	0.350	6	38.75	14.69	6	18.33	16.41	-	-	0.350				
601C/601	1	6	2.92	2.45	6	16.67	16.67	-	-	0.556	6	2.92	2.45	6	16.67	16.67	-	-	0.556	6	2.92	2.45	6	16.67	16.67	-	-	0.556				
598C/598	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				
1522C/1522	1	6	43.33	18.01	6	47.08	21.08	-	-	0.925	6	43.33	18.01	6	47.08	21.08	-	-	0.925	6	43.33	18.01	6	47.08	21.08	-	-	0.925				
Habitat Means			22.08	9.36		17.52	11.94		+			22.08	9.36		17.52	11.94		+			22.08	9.36		17.52	11.94		+					
Fisher's	Power		0.237		Power-50%		0.583	P-value		0.217	Power	0.248		Power-50%		0.565	P-value		0.217	Power	0.235		Power-50%		0.540	P-value		0.217				
Stouffer's	Power		0.246		Power-50%		0.706	P-value		0.113	Power	0.259		Power-50%		0.702	P-value		0.113	Power	0.244		Power-50%		0.688	P-value		0.113				
4825C/1424	2	5	57.00	18.83	5	33.00	20.22	-	+	0.425	5	57.00	18.83	5	33.00	20.22	-	+	0.425	5	57.00	18.83	5	33.00	20.22	-	+	0.425				
453C/453	2	5	39.50	12.13	6	5.00	2.66	-	-	0.012	5	39.50	12.13	6	5.00	2.66	-	-	0.012	5	39.50	12.13	6	5.00	2.66	-	+	0.012				
601C/601	2	6	9.58	5.68	4	51.88	23.99	-	-	0.101	6	9.58	5.68	4	51.88	23.99	-	-	0.101	6	9.58	5.68	4	51.88	23.99	-	-	0.101				
598C/598	2	5	20.00	13.94	5	8.50	6.10	-	-	0.453	5	20.00	13.94	5	8.50	6.10	-	-	0.453	5	20.00	13.94	5	8.50	6.10	-	-	0.453				
1522C/1522	2	6	51.25	14.81	6	78.33	16.16	-	-	0.234	6	51.25	14.81	6	78.33	16.16	-	-	0.234	6	51.25	14.81	6	78.33	16.16	-	-	0.234				
Habitat Means			35.48	13.06		35.34	13.84		-			35.48	13.06		35.34	13.84		+			35.48	13.06		35.34	13.84		+					
Fisher's	Power		---		Power-50%		---	P-value		0.082	Power	---		Power-50%		---	P-value		0.082	Power	---		Power-50%		---	P-value		0.082				
Stouffer's	Power		---		Power-50%		---	P-value		0.081	Power	---		Power-50%		---	P-value		0.081	Power	---		Power-50%		---	P-value		0.081				
4825C/1424	3	5	82.00	12.76	3	51.67	15.30	-	+	0.151	5	82.00	12.76	3	51.67	15.30	-	+	0.151	5	82.00	12.76	3	51.67	15.30	-	-	0.151				
453C/453	3	4	58.13	22.44	4	28.13	20.70	-	+	0.308	4	58.13	22.44	4	28.13	20.70	-	+	0.308	4	58.13	22.44	4	28.13	20.70	-	-	0.308				
601C/601	3	5	18.00	6.96	3	68.33	29.20	-	-	0.073	5	18.00	6.96	3	68.33	29.20	-	-	0.073	5	18.00	6.96	3	68.33	29.20	-	-	0.073				
598C/598	3	4	46.88	15.01	5	70.50	18.19	-	-	0.269	4	46.88	15.01	5	70.50	18.19	-	-	0.269	4	46.88	15.01	5	70.50	18.19	-	-	0.269				
1522C/1522	3	6	64.17	20.03	5	57.00	17.77	-	+	0.773	6	64.17	20.03	5	57.00	17.77	-	+	0.773	6	64.17	20.03	5	57.00	17.77	-	-	0.773				
Habitat Means			53.84	15.44		55.12	20.24		+			53.84	15.44		55.12	20.24		+			53.84	15.44		55.12	20.24		+					
Fisher's	Power		0.047		Power-50%		0.380	P-value		0.344xy	Power	0.049		Power-50%		0.371	P-value		0.344xy	Power	0.048		Power-50%		0.397	P-value		0.344xy				
Stouffer's	Power		0.029		Power-50%		0.504	P-value		0.682	Power	0.029		Power-50%		0.475	P-value		0.682	Power	0.031		Power-50%		0.525	P-value		0.682				

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

Table C-5.441: Page 1, December 15, 1994

Adult <i>Fucus gardneri</i> (P) (> 2cm)											Juvenile <i>Fucus gardneri</i> (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	25.00	11.24	5	5.50	5.50	-	-	0.229	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000								
453C/453	1	6	38.75	14.69	6	18.33	16.41	-	-	0.350	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000								
601C/601	1	6	2.50	2.50	6	16.67	16.67	-	-	0.498	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	0.00	-	+	0.363								
598C/598	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	0.00	-	+	0.363								
1522C/1522	1	6	43.33	18.01	6	47.08	21.08	-	-	0.925	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000								
Habitat Means			21.92	9.28		17.52	11.94		-			0.16	0.16		0.00	0.00		+			0.00	0.00		0.00	0.00		0.00	o									
Fisher's	Power		0.133		Power-50%		0.381	P-value		0.356	Power	---		Power-50%		---	P-value		0.359	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.500
Stouffer's	Power		0.125		Power-50%		0.539	P-value		0.313	Power	---		Power-50%		---	P-value		0.180	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	5	54.00	17.30	5	33.00	20.22	-	+	0.508	5	3.00	3.00	5	0.00	0.00	-	+	0.374	5	0.00	0.00	5	0.00	0.00	0.00	-	+	0.374								
453C/453	2	5	39.50	12.13	6	3.33	2.01	-	+	0.007	5	0.00	0.00	6	1.67	1.05	-	-	0.175	5	0.00	0.00	6	0.00	0.00	0.00	-	+	0.175								
601C/601	2	6	9.58	5.68	4	51.88	23.99	-	-	0.101	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000								
598C/598	2	5	18.50	14.29	5	8.50	6.10	-	+	0.552	5	1.50	1.50	5	0.00	0.00	-	+	0.374	5	0.00	0.00	5	0.00	0.00	0.00	-	+	0.374								
1522C/1522	2	6	50.00	15.51	6	78.33	16.16	-	-	0.219	6	1.25	1.25	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	0.00	-	+	0.363								
Habitat Means			34.32	12.98		35.00	13.70		+			1.16	1.16		0.34	0.22		+			0.00	0.00		0.00	0.00		0.00	o									
Fisher's	Power		---		Power-50%		---	P-value		0.073 y	Power	0.013		Power-50%		---	P-value		0.306	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.500
Stouffer's	Power		---		Power-50%		---	P-value		0.087	Power	0.006		Power-50%		---	P-value		0.389	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	4	82.00	12.76	3	51.67	15.30	-	+	0.151	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	0.00	-	o	1.000								
453C/453	3	5	58.13	22.44	4	26.88	21.15	-	+	0.276	4	0.00	0.00	4	1.25	0.72	-	-	0.182	4	0.00	0.00	4	0.00	0.00	0.00	-	+	0.182								
601C/601	3	5	18.00	6.96	3	68.33	29.20	-	-	0.073	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	0.00	-	+	0.182								
598C/598	3	4	46.88	15.01	5	70.50	18.19	-	-	0.269	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	0.00	-	+	0.182								
1522C/1522	3	6	63.75	20.29	5	57.00	17.77	-	+	0.832	6	0.42	0.42	5	0.00	0.00	-	+	0.363	6	0.00	0.00	5	0.00	0.00	0.00	-	+	0.363								
Habitat Means			53.76	15.50		54.88	20.34		+			0.08	0.08		0.26	0.14		-			0.00	0.00		0.00	0.00		0.00	o									
Fisher's	Power		0.070		Power-50%		0.674	P-value		0.338xy	Power	0.000		Power-50%		---	P-value		0.499	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.500
Stouffer's	Power		0.031		Power-50%		0.763	P-value		0.674	Power	0.000		Power-50%		---	P-value		0.302	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

Table C-5.441. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed May 1991. (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	5	0.00	0.00	-	o	1.000	6	0.00	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	5	0.00	0.00	-	o	1.000	6	0.00	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	5	0.00	0.00	-	o	1.000	6	0.00	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	5	0.00	0.00	-	o	1.000	6	0.00	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	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	Power	---		Power-50%		---	P-value	0.500
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	5	0.00	0.00	5	0.00	0.00	-	o	1.000					
453C/453	2	5	0.00	0.00	5	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	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					
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	5	0.00	0.00	5	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	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	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	Power	---		Power-50%		---	P-value	0.500
4825C/1424	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					
453C/453	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					
601C/601	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					
598C/598	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					
1522C/1522	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					
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	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	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	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.

Table C-5.442, Page 3, December 15, 1994

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		o				0.00	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	Power	---		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	Power	---		P-value	0.500
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	5	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	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		
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	5	0.00	0.00	5	0.00	0.00	-	o	1.000		
1522C/1522	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		o				0.00	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	Power	---		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	Power	---		P-value	0.500
4825C/1424	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		
453C/453	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		
601C/601	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		
598C/598	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		
1522C/1522	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		
Habitat Means			0.00	0.00		0.00		o				0.00	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	Power	---		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	Power	---		P-value	0.500

Table C-5.441. Algal Percent Cover. Phaeophyta. Prince William Sound, Sheltered Rocky, August 1993. Overstory removed May 1991. (Continued.)

Morphological Group: Saccate Browns											Leathesia/Colpomenia (A) (a)								Sargassum divoides (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		
4325C/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	5	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	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	
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	5	0.00	0.00	5	0.00	0.00	-	o	1.000	
1522C/1522	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	0.732		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	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	
453C/453	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	
601C/601	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	
598C/598	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	
1522C/1522	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	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	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.

Table C-5.441. Page 5. December 15, 1994

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	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	0.00	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	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	0.00	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	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													
453C/453	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													
601C/601	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													
598C/598	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													
1522C/1522	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													
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.

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**Table C-5.442. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed 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.

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	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	6.25	3.58	6	0.00	0.00	-	+	0.094	6	0.00	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	0.42	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
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			1.34	0.80		0.30	0.30		+			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%	0.020		P-value	0.240		Power	---		Power-50%	---		P-value	0.732		Power	---		Power-50%	---		P-value	0.732
Stouffer's			Power	0.006		Power-50%	0.015		P-value	0.165		Power	---		Power-50%	---		P-value	0.500		Power	---		Power-50%	---		P-value	0.500
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	5	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	2	5	10.00	3.79	6	0.83	0.83	-	+	0.019	5	0.50	0.50	6	0.00	0.00	-	+	0.374	5	0.00	0.00	6	0.00	0.00	-	+	0.374
601C/601	2	6	0.00	0.00	4	3.75	3.75	-	-	0.391	6	0.00	0.00	4	0.00	0.00	-	+	0.374	5	0.00	0.00	4	0.00	0.00	-	+	0.374
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	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	6	2.50	1.71	-	-	0.183	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	-	0.363
Habitat Means			2.00	0.76		1.42	1.26		-			0.10	0.10		0.08	0.08		-			0.00	0.00		0.00	0.00		o	
Fisher's			Power	0.002		Power-50%	0.031		P-value	0.370xy		Power	---		Power-50%	---		P-value	0.630 y		Power	---		Power-50%	---		P-value	0.732
Stouffer's			Power	0.000		Power-50%	0.003		P-value	0.779		Power	---		Power-50%	---		P-value	0.611		Power	---		Power-50%	---		P-value	0.500
4825C/1424	3	5	0.50	0.50	3	46.67	14.02	-	-	0.001	5	0.50	0.50	3	5.83	3.63	-	-	0.111	5	0.00	0.00	3	0.00	0.00	-	o	1.000
453C/453	3	4	13.75	12.93	4	3.13	1.88	-	+	0.593	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
601C/601	3	5	1.00	1.00	3	0.00	0.00	-	+	0.374	5	0.00	0.00	3	0.00	0.00	-	+	0.374	5	0.00	0.00	3	0.00	0.00	-	+	0.374
598C/598	3	4	0.63	0.63	5	0.00	0.00	-	+	0.391	4	0.00	0.00	5	0.00	0.00	-	+	0.391	4	0.00	0.00	5	0.00	0.00	-	+	0.391
1522C/1522	3	6	0.83	0.83	5	11.50	4.78	-	-	0.026	6	0.00	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			3.34	3.16		12.26	4.14		+			0.10	0.10		1.16	0.72		-			0.00	0.00		0.00	0.00		o	
Fisher's			Power	0.001		Power-50%	0.052		P-value	0.525xy		Power	0.057		Power-50%	---		P-value	0.333		Power	---		Power-50%	---		P-value	0.732
Stouffer's			Power	0.000		Power-50%	0.242		P-value	0.410		Power	0.016		Power-50%	---		P-value	0.413		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-5.442. Page 1. December 15, 1994

Gigartinales Group (P) (a)											Palmaria spp. (A)								Phycodrya 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	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
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	-	+	0.374	5	0.00	0.00	6	0.00	0.00	-	+	0.374
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	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	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1522C/1522	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
Habitat Means			0.10	0.10		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	0.630 y	Power	---		Power-50%		---		P-value	0.732	Power	---		Power-50%		---		P-value	0.732
Stouffer's	Power		---		Power-50%		---		P-value	0.611	Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500
4825C/1424	3	5	0.50	0.50	3	1.67	1.67	-	-	0.554	5	0.00	0.00	3	1.67	1.67	-	-	0.423	5	0.00	0.00	3	1.67	1.67	-	-	0.423
453C/453	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
601C/601	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
598C/598	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
1522C/1522	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
Habitat Means			0.10	0.10		0.34	0.34		-			0.00	0.00		0.34	0.34		-			0.00	0.00		0.34	0.34		-	
Fisher's	Power		---		Power-50%		---		P-value	0.618	Power	---		Power-50%		---		P-value	0.565	Power	---		Power-50%		---		P-value	0.565
Stouffer's	Power		---		Power-50%		---		P-value	0.467	Power	---		Power-50%		---		P-value	0.456	Power	---		Power-50%		---		P-value	0.456

Table C-5.442. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed May 1991. (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	0.00	0.00		o		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	0.732	Power	---		Power-50%	---		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%	---		Power-50%	---		P-value	0.500	
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	5	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	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	
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	5	0.00	0.00	5	0.00	0.00	-	o	1.000	
1522C/1522	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	0.00	0.00		o		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	0.732	Power	---		Power-50%	---		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%	---		Power-50%	---		P-value	0.500	
4825C/1424	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	0.83	0.83	-	-	0.423	
453C/453	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	
601C/601	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	
598C/598	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	
1522C/1522	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	
Habitat Means			0.00	0.00	0.00	0.00		o			0.00	0.00	0.00	0.00	0.00	0.00		o		0.00	0.00	0.00	0.16	0.16	-	-			
Fisher's	Power		---		Power-50%	---		P-value	0.732	Power	---		Power-50%	---		P-value	0.732	Power	---		Power-50%	---		Power-50%	---		P-value	0.565	
Stouffer's	Power		---		Power-50%	---		P-value	0.500	Power	---		Power-50%	---		P-value	0.500	Power	---		Power-50%	---		Power-50%	---		P-value	0.456	

x At least one site pair p-value < 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C 5.442.

See Table C 5.441.

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	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	
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			0.26	0.26	0.00	0.00		+			0.00	0.00	0.00	0.00	0.00	0.00		o		0.00	0.00	0.00	0.00	0.00	0.00		o		
Fisher's	Power		0.000		Power-50%	0.003		P-value	0.474	Power	---		Power-50%	---		P-value	0.732	Power	---		Power-50%	---		Power-50%	---		P-value	0.732	
Stouffer's	Power		0.001		Power-50%	0.000		P-value	0.635	Power	---		Power-50%	---		P-value	0.500	Power	---		Power-50%	---		Power-50%	---		P-value	0.500	
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	5	0.00	0.00	5	0.00	0.00	-	o	1.000	
453C/453	2	5	6.00	4.23	6	0.83	0.83	-	+	0.168	5	0.00	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	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	
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	5	0.00	0.00	5	0.00	0.00	-	o	1.000	
1522C/1522	2	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			1.20	0.84	1.26	1.26		-			0.00	0.00	0.00	0.00	0.00	0.00		o		0.00	0.00	0.00	0.00	0.00	0.00		o		
Fisher's	Power		0.003		Power-50%	0.010		P-value	0.514xy	Power	---		Power-50%	---		P-value	0.732	Power	---		Power-50%	---		Power-50%	---		P-value	0.732	
Stouffer's	Power		0.000		Power-50%	0.112		P-value	0.299y	Power	---		Power-50%	---		P-value	0.500	Power	---		Power-50%	---		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 5.442. Dec 1993

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	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	
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			0.26	0.26		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%	---		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%	---		Power-50%	---		P-value	0.500	
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	5	0.00	0.00	5	0.00	0.00	-	o	1.000	
453C/453	2	5	6.00	4.23	6	0.83	0.83	-	+	0.168	5	0.00	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	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	
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	5	0.00	0.00	5	0.00	0.00	-	o	1.000	
1522C/1522	2	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			1.20	0.84		1.26	1.26		-			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%	0.003	P-value	0.474	Power	---		Power-50%	---		P-value	0.732	Power	---		Power-50%	---		Power-50%	---		P-value	0.732		
Stouffer's	Power		0.001		Power-50%	0.000	P-value	0.635	Power	---		Power-50%	---		P-value	0.500	Power	---		Power-50%	---		Power-50%	---		P-value	0.500		
4825C/1424	3	5	0.00	0.00	3	29.17	13.10	-	-	0.062	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	
453C/453	3	4	13.75	12.93	4	3.13	1.88	-	+	0.593	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	
601C/601	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	0.00	0.00	3	0.00	0.00	-	o	1.000	
598C/598	3	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	4	0.00	0.00	5	0.00	0.00	-	o	1.000	
1522C/1522	3	6	0.83	0.83	5	10.50	5.09	-	-	0.078	6	0.00	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			3.24	3.06		8.56	4.02		+			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%	0.010	P-value	0.514xy	Power	---		Power-50%	---		P-value	0.732	Power	---		Power-50%	---		Power-50%	---		P-value	0.732		
Stouffer's	Power		0.000		Power-50%	0.112	P-value	0.299	Power	---		Power-50%	---		P-value	0.500	Power	---		Power-50%	---		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-5.442. Page 4. December 15, 1998

Table C-5.442. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed May 1991. (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	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	1.25	1.25	6	0.00	0.00	-	o	0.363				
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			0.26	0.26		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	0.536		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	0.315		Power-50%	---	P-value	0.315					
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	5	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	4.23	6	0.83	0.83	-	o	0.168				
601C/601	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.09	0.00	-	o	1.000	6	0.00	0.00	4	3.75	3.75	-	o	0.391				
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	5	0.00	0.00	5	0.00	0.00	-	o	1.000				
1522C/1522	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	1.67	1.67	-	o	0.363				
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			1.20	0.84		1.26	1.26		-					
Fisher's			Power	---	Power-50%	---	P-value	0.732		Power	---	Power-50%	---	P-value	0.732		Power	---	Power-50%	---	P-value	0.474		Power-50%	---	P-value	0.474					
Stouffer's			Power	---	Power-50%	---	P-value	0.500		Power	---	Power-50%	---	P-value	0.500		Power	---	Power-50%	---	P-value	0.635		Power-50%	---	P-value	0.635					
4825C/1424	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	27.50	11.46	-	o	0.052				
453C/453	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	13.75	12.93	4	3.13	1.88	-	o	0.593				
601C/601	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	1.00	1.00	3	0.00	0.00	-	o	0.374				
598C/598	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	0.63	0.63	5	0.00	0.00	-	o	0.391				
1522C/1522	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	0.83	0.83	5	10.50	5.09	-	o	0.078				
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			3.24	3.06		8.22	3.70		+					
Fisher's			Power	---	Power-50%	---	P-value	0.732		Power	---	Power-50%	---	P-value	0.732		Power	---	Power-50%	---	P-value	0.515xy		Power-50%	---	P-value	0.515xy					
Stouffer's			Power	---	Power-50%	---	P-value	0.500		Power	---	Power-50%	---	P-value	0.500		Power	---	Power-50%	---	P-value	0.302		Power-50%	---	P-value	0.302					

(a) Genera not separated.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.442. Page 5. December 15, 1994

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	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	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	
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	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	
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	5	0.00	0.00	5	0.00	0.00	-	o	1.000	
1522C/1522	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	0.42	0.42	-	o	0.363	
Habitat 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	0.536				
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value	0.425				
4825C/1424	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	1.67	1.67	-	o	0.423	5	0.00	0.00	3	2.50	2.50	-	o	0.423	
453C/453	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	
601C/601	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	
598C/598	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	
1522C/1522	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	1.00	0.61	-	o	0.178	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.34	0.34		-			0.00	0.00		0.70	0.62		-		
Fisher's	Power		---		Power-50%		---	P-value	0.732	Power	---		Power-50%		---	P-value	0.565	Power	---		Power-50%		---	P-value	0.278				
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value	0.456	Power	---		Power-50%		---	P-value	0.348				

(b) Genera not separated.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.442. Page 6. December 15, 1994

Table C-5.442. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed May 1991. (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	0.00	o				0.00	0.00	0.00	0.00	0.00	o				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		0.732	Power	---		Power-50%	---	P-value		0.732	Power	---		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	Power	---		P-value	0.500		
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	5	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	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				
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	5	0.00	0.00	5	0.00	0.00	-	o	1.000				
1522C/1522	2	6	0.00	0.00	6	0.42	0.42	-	o	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	0.00	o				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		0.732	Power	---		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	Power	---		P-value	0.500		
4825C/1424	3	5	0.00	0.00	3	2.50	2.50	-	o	0.423	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	9.17	9.17	-	o	0.423				
453C/453	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				
601C/601	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				
598C/598	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				
1522C/1522	3	6	0.00	0.00	5	1.00	0.61	-	o	0.178	6	0.00	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	0.70	0.62	-					0.00	0.00	0.00	0.00	0.00	o				0.00	0.00	0.00	1.84	1.84	-						
Fisher's	Power		0.015		Power-50%	---	P-value		0.278	Power	---		Power-50%	---	P-value		0.732	Power	---		Power-50%	---	P-value		0.565	Power	---		P-value	0.565		
Stouffer's	Power		0.015		Power-50%	---	P-value		0.348	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.456	Power	---		P-value	0.456		

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

Table C-5.442. Page 7. December 15, 1994

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	1.50	1.50	-	-	0.374	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000	
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	5.00	3.71	6	0.00	0.00	-	-	0.195	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000	
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	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	0.00	-	o	1.000	6	0.00	0.00	6	0.00	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	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00	0.00	0.00	0.00		o			1.08	0.82	0.30	0.30		-				0.00	0.00	0.00	0.00	0.00		o			
Fisher's	Power		---		Power-50%	---	P-value		0.732	Power	0.001		Power-50%	0.001	P-value		0.338	Power	---		Power-50%	---	P-value		0.732	Power	---		P-value	0.732
Stouffer's	Power		---		Power-50%	---	P-value		0.500	Power	0.001		Power-50%	0.000	P-value		0.219	Power	---		Power-50%	---	P-value		0.500	Power	---		P-value	0.500
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	5	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000	
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	3.50	2.18	6	0.00	0.00	-	+	0.179	5	2.00	2.00	6	0.00	0.00	0.00	-	o	0.374	
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	6	0.00	0.00	4	0.00	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	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00	0.00	0.00	0.00		o			0.70	0.44	0.00	0.00	0.00		+			0.40	0.40	0.00	0.00	0.00		o			
Fisher's	Power		---		Power-50%	---	P-value		0.732	Power	0.010		Power-50%	0.009	P-value		0.409	Power	---		Power-50%	---	P-value		0.542	Power	---		P-value	0.542
Stouffer's	Power		---		Power-50%	---	P-value		0.500	Power	0.005		Power-50%	0.005	P-value		0.238	Power	---		Power-50%	---	P-value		0.319	Power	---		P-value	0.319
4825C/1424	3	5	0.00	0.00	3	9.17	9.17	-	-	0.423	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	0.00	-	o	1.000	
453C/453	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	0.00	-	o	1.000	
601C/601	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	0.00	-	o	1.000	
598C/598	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	0.00	-	o	1.000	
1522C/1522	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	0.00	-	o	1.000	
Habitat Means			0.00	0.00	1.84	1.84		-				0.00	0.00	0.00	0.00	0.00		o			0.00	0.00	0.00	0.00	0.00		o			
Fisher's	Power		---		Power-50%	---	P-value		0.565	Power	---		Power-50%	---	P-value		0.732	Power	---		Power-50%	---	P-value		0.732	Power	---		P-value	0.732
Stouffer's	Power		---		Power-50%	---	P-value		0.456	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.500	Power	---		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-5.442. Page 8. December 15, 1994

Table C-5.442. Algal Percent Cover, Rhodophyta, Prince William Sound, Sheltered Rocky, August 1993. Overstory removed May 1991. (Continued.)

Site Pair	Mvd	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	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										
453C/453	1	6	5.00	3.71	6	0.00	0.00	-	+	0.195	6	0.00	0.00	6	0.00	0.00	-	o	1.000										
601C/601	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										
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			1.08	0.82		0.30	0.30		-			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	0.732	Power	---		Power-50%		---	P-value					
Stouffer's	Power		0.001		Power-50%		0.007	P-value	0.219	Power	---		Power-50%		---	P-value	0.500	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	1.50	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	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	0.00	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			0.30	0.30		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	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										
453C/453	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										
601C/601	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										
598C/598	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										
1522C/1522	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										
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-5.443. Algal Percent Cover. Invertebrates. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed 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.

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	27.50	17.85	-	-	0.223	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	
453C/453	1	6	3.33	2.47	6	3.75	2.87	-	-	0.957	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	2.92	2.92	6	2.50	1.71	-	-	0.840	
601C/601	1	6	3.75	1.80	6	0.00	0.00	-	+	0.080	6	0.42	0.42	6	0.42	0.42	-	o	1.000	6	1.25	0.85	6	1.67	0.83	-	-	0.662	
598C/598	1	6	6.67	2.79	6	0.83	0.53	-	+	0.040	6	0.42	0.42	6	0.42	0.42	-	o	1.000	6	1.67	0.83	6	1.25	1.25	-	-	0.493	
1522C/1522	1	6	14.17	13.18	6	5.42	3.44	-	+	0.626	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	
Habitat Means			6.10	4.46		7.50	4.94		+			0.24	0.24		0.16	0.16		+			1.68	1.42		1.10	0.76		-		
Fisher's	Power		---		Power-50%	---	P-value		0.053	y	Power	---		Power-50%	---	P-value		0.536		Power		0.088		Power-50%		0.472	P-value	0.274	
Stouffer's	Power		---		Power-50%	---	P-value		0.028		Power	---		Power-50%	---	P-value		0.315		Power		0.123		Power-50%		0.639	P-value	0.197	
4825C/1424	2	5	2.00	1.46	5	11.00	4.51	-	-	0.083	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	5.50	3.74	6	15.42	5.02	-	-	0.186	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.50	0.50	6	8.33	5.58	-	-	0.196	
601C/601	2	6	7.92	3.90	4	1.25	1.25	-	-	0.199	6	0.00	0.00	4	0.63	0.63	-	o	0.391	6	8.33	6.44	4	5.00	3.39	-	+	0.959	
598C/598	2	5	15.50	11.25	5	1.50	1.00	-	-	0.167	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	7.00	4.57	5	5.50	2.42	-	-	0.906	
1522C/1522	2	6	13.33	11.90	6	0.83	0.83	-	-	0.340	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	6.67	3.52	6	0.00	0.00	-	+	0.058	
Habitat Means			8.84	6.46		6.00	2.52		+			0.00	0.00		0.12	0.12		-			4.50	3.00		3.76	2.28		-		
Fisher's	Power		0.142		Power-50%	0.481	P-value		0.202	x	Power	---		Power-50%	---	P-value		0.550		Power		0.024		Power-50%		0.188	P-value	0.302	
Stouffer's	Power		0.040		Power-50%	0.628	P-value		0.266		Power	---		Power-50%	---	P-value		0.421		Power		0.017		Power-50%		0.328	P-value	0.574	
4825C/1424	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	
453C/453	3	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	4	0.00	0.00	4	5.63	3.29	-	-	0.183	
601C/601	3	5	1.00	0.61	3	0.00	0.00	-	+	0.178	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	
598C/598	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	
1522C/1522	3	6	0.42	0.42	5	2.50	2.50	-	-	0.538	6	0.00	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			0.28	0.20		0.62	0.62		-			0.00	0.00		0.00	0.00		o			1.00	1.00		1.12	0.66		-		
Fisher's	Power		0.004		Power-50%	0.013	P-value		0.546		Power	---		Power-50%	---	P-value		0.732		Power		0.050		Power-50%		---	P-value	0.497	
Stouffer's	Power		0.000		Power-50%	0.013	P-value		0.393		Power	---		Power-50%	---	P-value		0.500		Power		0.003		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.

Table C-5.443. Page 1. December 15, 1994

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	2.50	1.94	-	-	0.209	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	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	1.25	1.25	-	-	0.363	6	0.00	0.00	6	0.00	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	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	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	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.50	0.38		-			0.00	0.00		0.26	0.26		-			0.00	0.00		0.00	0.00		0.00		o	
Fisher's	Power		0.000		Power-50%	---	P-value	0.435	Power	---		Power-50%	---	P-value	0.536	Power	---		Power-50%	---	P-value	0.732			Power-50%	---	P-value	0.732		
Stouffer's	Power		0.000		Power-50%	---	P-value	0.431	Power	---		Power-50%	---	P-value	0.315	Power	---		Power-50%	---	P-value	0.500			Power-50%	---	P-value	0.500		
4825C/1424	2	5	0.00	0.00	5	0.50	0.50	-	-	0.374	5	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
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	0.00	-	o	1.000	5	0.00	0.00	6	0.00	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	0.00	-	o	1.000	6	0.00	0.00	4	0.00	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	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
Habitat Means			0.10	0.10		0.10	0.10		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		0.00		o	
Fisher's	Power		---		Power-50%	---	P-value	0.636	Power	---		Power-50%	---	P-value	0.732	Power	---		Power-50%	---	P-value	0.732			Power-50%	---	P-value	0.732		
Stouffer's	Power		---		Power-50%	---	P-value	0.636	Power	---		Power-50%	---	P-value	0.500	Power	---		Power-50%	---	P-value	0.500			Power-50%	---	P-value	0.500		
4825C/1424	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	0.00	-	o	1.000
453C/453	3	4	0.00	0.00	4	0.63	0.63	-	o	0.391	4	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000
601C/601	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	0.00	-	o	1.000
598C/598	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.12	0.12		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		0.00		o	
Fisher's	Power		---		Power-50%	---	P-value	0.550	Power	---		Power-50%	---	P-value	0.732	Power	---		Power-50%	---	P-value	0.732			Power-50%	---	P-value	0.732		
Stouffer's	Power		---		Power-50%	---	P-value	0.325	Power	---		Power-50%	---	P-value	0.500	Power	---		Power-50%	---	P-value	0.500			Power-50%	---	P-value	0.500		

Table C-5.444. Algal Percent Cover. Substrates. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed 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.

Site Pair	Mvd	N	Rock								Oiled Rock								Sand										
			C	SE	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	72.08	10.89	5	62.50	17.43	-	+	0.741	6	0.00	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	48.33	12.31	6	74.17	15.63	-	-	0.252	6	0.00	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	91.25	2.12	6	81.25	16.28	-	+	0.769	6	0.00	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	90.83	2.79	6	97.50	1.29	-	-	0.073	6	0.00	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	40.42	17.00	6	47.50	18.82	-	-	0.826	6	0.00	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			68.58	9.02		72.60	13.88		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o		
Fisher's	Power		0.056		Power-50%	0.983	P-value		0.155	Power	---		Power-50%	---	P-value	0.732	Power	---		Power-50%	---	P-value	0.732						
Stouffer's	Power		---		Power-50%	---	P-value		0.027	Power	---		Power-50%	---	P-value	0.500	Power	---		Power-50%	---	P-value	0.500						
4825C/1424	2	5	41.00	17.62	5	55.50	17.68	-	-	0.600	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	44.00	10.51	6	60.42	10.32	-	-	0.263	5	0.00	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	74.17	8.51	4	37.50	21.77	-	+	0.117	6	0.00	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	57.50	18.23	5	84.50	8.19	-	-	0.199	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	24.58	10.28	6	15.83	15.83	-	+	0.400	6	0.00	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			48.26	13.02		50.74	14.76		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o		
Fisher's	Power		0.089		Power-50%	0.512	P-value		0.309	Power	---		Power-50%	---	P-value	0.732	Power	---		Power-50%	---	P-value	0.732						
Stouffer's	Power		0.032		Power-50%	0.600	P-value		0.130	Power	---		Power-50%	---	P-value	0.500	Power	---		Power-50%	---	P-value	0.500						
4825C/1424	3	5	3.50	3.50	3	1.67	1.67	-	-	0.933	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	
453C/453	3	4	27.50	21.19	4	56.25	17.28	-	-	0.325	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	
601C/601	3	5	50.00	17.05	3	4.17	2.20	-	+	0.114	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	25.00	25.00	-	-	0.423	
598C/598	3	4	18.75	15.60	5	1.00	0.61	-	+	0.340	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	26.00	17.44	-	-	0.197	
1522C/1522	3	6	23.75	15.24	5	27.00	18.68	-	-	0.991	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	10.83	10.83	5	0.00	0.00	-	-	0.363	
Habitat Means			24.72	14.52		18.04	8.10		+			0.00	0.00		0.00	0.00		o			2.16	2.16		10.20	8.48		-		
Fisher's	Power		0.091		Power-50%	0.230	P-value		0.251	Power	---		Power-50%	---	P-value	0.732	Power	---		Power-50%	---	P-value	0.364						
Stouffer's	Power		0.067		Power-50%	0.375	P-value		0.276	Power	---		Power-50%	---	P-value	0.500	Power	---		Power-50%	---	P-value	0.159						

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

Table C 5.444. Page 1. December 15, 1994

Site Pair	Mvd	Shell Fragments								Water								Zostera/Phyllospadix											
		N	C	SE	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			o			0.00	0.00		0.00			o			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	Power	---		0.500
Stouffer's	Power		---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.500	Power	---		0.500
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	5	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	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	
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	5	0.00	0.00	5	0.00	0.00	-	o	1.000	
1522C/1522	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			o			0.00	0.00		0.00			o			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	Power	---		0.500
Stouffer's	Power		---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.500	Power	---		0.500
4825C/1424	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	
453C/453	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	
601C/601	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	
598C/598	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	
1522C/1522	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	
Habitat Means			0.00	0.00		0.00			o			0.00	0.00		0.00			o			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	Power	---		0.500
Stouffer's	Power		---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.500	Power	---		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 5.444. Page 2. December 15, 1994

Table C-5.444. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed May 1991. (Continued.)

Site Pair	Sand and Mud										Total Substrate																			
	Mvd	N	C	SE	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	72.08	10.89	5	62.50	17.43	-	+	0.741											
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	48.33	12.31	6	74.17	15.63	-	-	0.252											
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	91.25	2.12	6	81.25	16.28	-	+	0.769											
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	90.83	2.79	6	97.50	1.29	-	-	0.073											
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	40.42	17.00	6	47.50	18.82	-	-	0.826											
Habitat Means			0.00	0.00		0.00	0.00		o			68.58	9.02		72.60	13.88		-												
Fisher's	Power		---		Power-50%		---	P-value	0.732	Power	0.055		Power-50%	0.983	P-value	0.155	Power	---		Power-50%		---	P-value							
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power	---		Power-50%	---	P-value	0.027	Power	---		Power-50%		---	P-value							
4825C/1424	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	41.00	17.62	5	55.50	17.68	-	-	0.600											
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	44.00	10.51	6	60.42	10.32	-	-	0.263											
601C/601	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	74.17	8.51	4	37.50	21.77	-	+	0.117											
598C/598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	57.50	18.23	5	84.50	8.19	-	-	0.199											
1522C/1522	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	24.58	10.28	6	15.83	15.83	-	+	0.400											
Habitat Means			0.00	0.00		0.00	0.00		o			48.26	13.02		50.74	14.76		-												
Fisher's	Power		---		Power-50%		---	P-value	0.732	Power	0.089		Power-50%	0.503	P-value	0.309	Power	---		Power-50%		---	P-value							
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power	0.033		Power-50%	0.585	P-value	0.130	Power	---		Power-50%		---	P-value							
4825C/1424	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	3.50	3.50	3	1.67	1.67	-	+	0.933											
453C/453	3	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	27.50	21.19	4	56.25	17.28	-	-	0.325											
601C/601	3	5	0.00	0.00	3	25.00	25.00	-	-	0.423	5	50.00	17.05	3	29.17	26.71	-	+	0.490											
598C/598	3	4	0.00	0.00	5	26.00	17.44	-	-	0.197	4	18.75	15.60	5	27.00	17.38	-	-	0.760											
1522C/1522	3	6	10.83	10.83	5	0.00	0.00	-	+	0.363	6	34.58	19.96	5	27.00	18.68	-	+	0.699											
Habitat Means			2.16	2.16		10.20	8.48		-			26.88	15.48		28.24	16.36		+												
Fisher's	Power		0.010		Power-50%		---	P-value	0.364	Power	0.013		Power-50%	0.196	P-value	0.653	Power	---		Power-50%		---	P-value							
Stouffer's	Power		0.004		Power-50%		---	P-value	0.159	Power	0.022		Power-50%	0.343	P-value	0.694	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-5.445. Algal Percent Cover, Totals and Seasonal Groups, Cook Inlet/Kenai, Sheltered Rocky, June 1992, Overstory removed 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	
14.1C/14.1	1	6	0.02	0.02	6	0.02	0.02	-	-	0.813	6	1.17	0.17	6	1.17	0.17	-	o	1.000	6	38.75	8.11	6	50.00	15.33	-	-	0.478	
14.2C/14.2	1	6	0.01	0.01	4	0.00	0.00	-	-	0.363	6	1.17	0.17	4	0.25	0.25	-	+	0.013	6	44.58	18.06	4	3.13	3.13	-	+	0.063	
62762C/50983	1	6	0.09	0.06	6	0.02	0.02	-	-	0.243	6	1.33	0.21	6	1.00	0.26	-	+	0.341	6	46.67	11.36	6	48.75	18.38	-	-	0.959	
Habitat Means			0.04	0.03		0.01	0.01					1.22	0.18		0.81	0.23		+			43.37	12.53		33.97	12.27		-		
Fisher's Stouffer's	Power		0.148		Power-50%	0.270	P-value			0.193	Power	---		Power-50%	---	P-value			0.020	Power	0.009		Power-50%	0.632	P-value		0.623xy		
	Power		0.190		Power-50%	0.362	P-value			0.104	Power	---		Power-50%	---	P-value			0.057	Power	0.001		Power-50%	0.683	P-value		0.611		
14.1C/14.1	2	6	0.26	0.10	6	0.48	0.04	-	-	0.063	6	3.00	0.58	6	3.67	0.42	-	-	0.373	6	87.08	8.00	6	68.33	6.91	-	+	0.058	
14.2C/14.2	2	6	0.12	0.12	4	0.25	0.08	-	-	0.429	6	2.00	1.00	4	2.50	0.65	-	-	0.721	6	82.92	15.63	4	38.13	15.39	-	+	0.064	
62762C/50983	2	6	0.18	0.07	6	0.09	0.09	-	+	0.430	6	2.33	0.56	6	1.50	0.50	-	+	0.292	6	45.42	12.66	6	56.67	10.78	-	-	0.584	
Habitat Means			0.19	0.09		0.27	0.07		-			2.44	0.71		2.56	0.52		-			71.80	12.10		54.37	11.03		-		
Fisher's Stouffer's	Power		0.468		Power-50%	0.379	P-value			0.106	Power	0.182		Power-50%	0.789	P-value			0.456	Power	---		Power-50%	---	P-value		0.023		
	Power		0.293		Power-50%	0.457	P-value			0.486	Power	0.083		Power-50%	0.844	P-value			0.729	Power	0.137		Power-50%	0.655	P-value		0.285		
14.1C/14.1	3	6	0.50	0.04	6	0.35	0.11	-	+	0.229	6	4.17	0.40	6	4.50	0.99	-	-	0.762	6	61.67	8.63	6	99.17	0.53	-	-	0.000	
14.2C/14.2	3	2	0.24	0.19	5	0.41	0.13	-	-	0.515	2	4.00	2.00	5	4.40	0.98	-	-	0.846	2	100.00	0.00	5	97.00	2.42	-	-	0.218	
62762C/50983	3	6	0.29	0.12	4	0.15	0.10	-	+	0.424	6	3.83	1.14	4	2.00	0.71	-	-	0.265	6	68.75	18.64	4	100.00	0.00	-	-	0.110	
Habitat Means			0.34	0.12		0.30	0.11		+			4.00	1.18		3.63	0.89		-			76.83	9.07		98.73	0.97		-		
Fisher's Stouffer's	Power		0.086		Power-50%	0.450	P-value			0.236	Power	0.008		Power-50%	0.678	P-value			0.685 y	Power	---		Power-50%	---	P-value		0.000		
	Power		0.062		Power-50%	0.490	P-value			0.187	Power	0.008		Power-50%	0.706	P-value			0.810	Power	---		Power-50%	---	P-value		0.015		

(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 ov

z Only one site pair.

Table C 5.445, Page 1, December 15, 1994

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	2.08	1.64	6	5.42	1.87	-	-	0.210	6	59.17	9.19	6	44.58	13.96	-	+	0.344	6	38.75	8.11	6	44.58	17.14	-	-	0.834
14.2C/14.2	1	6	8.75	5.76	4	10.63	10.63	-	-	0.918	6	46.67	16.75	4	86.25	10.03	-	-	0.088	6	42.08	19.11	4	3.13	3.13	-	+	0.146
62762C/50983	1	6	47.50	11.87	6	7.50	3.76	-	-	0.020	6	5.83	2.01	6	43.75	16.87	-	-	0.042	6	46.67	11.36	6	48.75	18.38	-	-	0.959
Habitat Means			19.47	6.43		7.83	5.43		-			37.23	9.33		58.23	13.63		-			42.53	12.87		32.17	12.87		-	
Fisher's	Power		0.060		Power-50%	0.412	P-value			0.414xy	Power	---		Power-50%	---	P-value			0.026	Power	0.004		Power-50%	0.493	P-value		0.761 y	
Stouffer's	Power		0.005		Power-50%	0.566	P-value			0.959	Power	---		Power-50%	---	P-value			0.019	Power	0.001		Power-50%	0.569	P-value		0.621	
14.1C/14.1	2	6	2.08	1.19	6	4.58	2.36	-	-	0.424	6	10.83	6.88	6	27.08	8.25	-	-	0.085	6	84.17	10.76	6	36.25	9.74	-	+	0.006
14.2C/14.2	2	6	0.83	0.83	4	15.63	9.15	-	-	0.110	6	16.25	15.76	4	46.25	13.48	-	-	0.135	6	77.08	16.13	4	13.13	6.72	-	-	0.032
62762C/50983	2	6	42.08	15.06	6	16.25	4.78	-	+	0.225	6	12.50	6.74	6	16.25	8.43	-	-	0.853	6	37.08	9.23	6	50.42	13.11	-	-	0.424
Habitat Means			15.00	5.70		12.17	5.47		-			13.20	9.80		29.90	10.07		-			66.13	12.03		33.27	9.83		-	
Fisher's	Power		0.196		Power-50%	0.337	P-value			0.165 y	Power	---		Power-50%	---	P-value			0.037	Power	---		Power-50%	---	P-value		0.002	
Stouffer's	Power		0.117		Power-50%	0.442	P-value			0.665	Power	0.550		Power-50%	0.336	P-value			0.138	Power	0.605		Power-50%	0.980	P-value		0.252	
14.1C/14.1	3	6	7.50	3.35	6	0.42	0.42	-	+	0.018	6	30.83	10.32	6	0.42	0.42	-	+	0.020	6	36.67	11.65	6	44.17	15.02	-	-	0.830
14.2C/14.2	3	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	45.00	42.50	5	60.50	15.34	-	-	0.582
62762C/50983	3	6	24.17	16.11	4	0.00	0.00	-	+	0.159	6	7.08	6.14	4	0.00	0.00	-	+	0.233	6	17.92	9.67	4	91.25	5.15	-	-	0.001
Habitat Means			10.57	6.50		0.97	0.97		+			12.63	5.47		0.30	0.30		+			33.20	21.30		65.33	11.83		-	
Fisher's	Power		---		Power-50%	---	P-value			0.021	Power	---		Power-50%	---	P-value			0.030	Power	---		Power-50%	---	P-value		0.004	
Stouffer's	Power		---		Power-50%	---	P-value			0.044	Power	---		Power-50%	---	P-value			0.067	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 5.445, Page 2, December 15, 1994

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	
14.1C/14.1	1	6	0.00	0.00	6	5.42	4.49	-	-	0.219	6	0.00	0.00	6	0.00	0.00	-	o	1.000										
14.2C/14.2	1	6	2.50	1.71	4	0.00	0.00	-	+	0.183	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			0.83	0.57		1.80	1.50					0.00	0.00		0.00	0.00		o											
Fisher's	Power		0.002		Power-50%	0.007	P-value			0.380	Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value				
Stouffer's	Power		0.000		Power-50%	0.001	P-value			0.488	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value				
14.1C/14.1	2	6	2.92	2.92	6	32.08	9.21	-	-	0.009	6	0.00	0.00	6	2.50	2.50	-	-	0.363										
14.2C/14.2	2	6	5.83	4.90	4	25.00	11.95	-	-	0.120	6	0.83	0.83	4	5.00	5.00	-	-	0.469										
62762C/50983	2	6	8.33	3.69	6	6.25	6.25	-	+	0.409	6	5.83	2.79	6	2.08	2.08	-	+	0.283										
Habitat Means			5.67	3.83		21.13	9.17		-			2.20	1.20		3.20	3.20		-											
Fisher's	Power		---		Power-50%	---	P-value			0.009	Power	0.036		Power-50%	0.178	P-value			0.357	Power	---		Power-50%	---	P-value				
Stouffer's	Power		0.498		Power-50%	0.391	P-value			0.331	Power	0.028		Power-50%	0.199	P-value			0.697	Power	---		Power-50%	---	P-value				
14.1C/14.1	3	6	25.00	6.92	6	55.00	15.41	-	-	0.176	6	2.50	1.58	6	3.75	2.39	-	-	0.937										
14.2C/14.2	3	2	55.00	42.50	5	36.50	15.72	-	+	0.529	2	2.50	2.50	5	3.00	2.42	-	-	0.950										
62762C/50983	3	6	50.83	15.34	4	8.75	5.15	-	+	0.056	6	0.83	0.83	4	0.00	0.00	-	+	0.363										
Habitat Means			43.60	21.57		33.43	12.10		+			1.93	1.63		2.27	1.60		-											
Fisher's	Power		0.138		Power-50%	0.471	P-value			0.124	Power	0.008		Power-50%	0.242	P-value			0.756	Power	---		Power-50%	---	P-value				
Stouffer's	Power		---		Power-50%	---	P-value			0.061	Power	0.007		Power-50%	0.341	P-value			0.786	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 5.445. Page 3. December 15, 1994

**Table C-5.446. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1992. Overstory removed 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				
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	5.42	3.44	-	-	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				
14.2C/14.2	2	6	0.83	0.83	4	5.00	5.00	-	-	0.469	6	0.83	0.83	4	0.63	0.63	-	-	0.971	6	0.83	0.83	4	0.63	0.63	-	-	0.971				
62762C/50983	2	6	5.83	2.79	6	5.83	5.83	-	+	0.621	6	5.83	2.79	6	2.08	2.08	-	+	0.283	6	5.83	2.79	6	2.08	2.08	-	+	0.283				
Habitat Means			2.20	1.20		5.40	4.73		-			2.20	1.20		0.90	0.90		+			2.20	1.20		0.90	0.90		+					
Fisher's	Power		0.174		Power-50%		0.150	P-value	0.203		Power	0.074		Power-50%		0.147	P-value	0.346		Power	0.074		Power-50%		0.172	P-value	0.346					
Stouffer's	Power		0.220		Power-50%		0.176	P-value	0.444		Power	0.068		Power-50%		0.163	P-value	0.161		Power	0.073		Power-50%		0.185	P-value	0.161					
14.1C/14.1	3	6	2.92	1.50	6	6.25	3.21	-	-	0.537	6	2.50	1.58	6	3.75	2.39	-	-	0.937	6	2.50	1.58	6	3.75	2.39	-	-	0.937				
14.2C/14.2	3	2	2.50	2.50	5	5.50	4.90	-	-	0.900	2	2.50	2.50	5	2.50	2.50	-	o	0.776	2	2.50	2.50	5	2.50	2.50	-	o	0.776				
62762C/50983	3	6	1.25	0.85	4	0.00	0.00	-	+	0.183	6	0.83	0.83	4	0.00	0.00	-	-	0.363	6	0.83	0.83	4	0.00	0.00	-	-	0.363				
Habitat Means			2.23	1.63		3.93	2.70		-			1.93	1.63		2.10	1.63		+			1.93	1.63		2.10	1.63		+					
Fisher's	Power		0.013		Power-50%		0.526	P-value	0.621		Power	0.042		Power-50%		0.266	P-value	0.463	y		Power	0.045		Power-50%		0.289	P-value	0.463	y			
Stouffer's	Power		0.044		Power-50%		0.600	P-value	0.843		Power	0.053		Power-50%		0.353	P-value	0.233			Power	0.058		Power-50%		0.343	P-value	0.233				

(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.

Table C-5.446. Page 1. December 15, 1994

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	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	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	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			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	0.655		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	2.92	2.92	-	-	0.363	6	0.00	0.00	6	2.92	2.92	-	-	0.363	6	0.00	0.00	6	0.00	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	0.00	-	o	1.000	
62762C/50983	2	6	0.00	0.00	6	3.75	3.75	-	-	0.363	6	0.00	0.00	6	3.75	3.75	-	-	0.363	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		2.23	2.23		-			0.00	0.00		2.23	2.23		-			0.00	0.00		0.00	0.00		0.00	o		
Fisher's	Power		---		Power-50%		---	P-value	0.223		Power	---		Power-50%		---	P-value	0.223		Power	---		Power-50%		---	P-value	0.655			
Stouffer's	Power		---		Power-50%		---	P-value	0.138		Power	---		Power-50%		---	P-value	0.138		Power	---		Power-50%		---	P-value	0.500			
14.1C/14.1	3	6	0.42	0.42	6	2.50	1.12	-	-	0.082	6	0.42	0.42	6	2.50	1.12	-	-	0.082	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000	
14.2C/14.2	3	2	0.00	0.00	5	2.50	2.50	-	-	0.374	2	0.00	0.00	5	2.50	2.50	-	-	0.374	2	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000	
62762C/50983	3	6	0.42	0.42	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	0.00	-	o	1.000	
Habitat Means			0.27	0.27		1.67	1.20		-			0.27	0.27		1.67	1.20		-			0.00	0.00		0.00	0.00		0.00	o		
Fisher's	Power		0.211		Power-50%		---	P-value	0.119		Power	0.214		Power-50%		---	P-value	0.119		Power	---		Power-50%		---	P-value	0.655			
Stouffer's	Power		0.135		Power-50%		---	P-value	0.533		Power	0.130		Power-50%		---	P-value	0.533		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-5.446. Page 2. December 15, 1994

Table C-5.446. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1992. Overstory removed 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	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	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	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			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		0.655	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	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	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	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			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		0.655	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	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	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	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			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		0.655	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-5.446. Page 3. December 15, 1994

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		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	2.50	2.50	-	-	0.363	6	0.00	0.00	6	2.50	2.50	-	-	0.363													
14.2C/14.2	2	6	0.00	0.00	4	4.37	4.37	-	-	0.391	6	0.00	0.00	4	4.37	4.37	-	-	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			0.00	0.00		2.30	2.30		-			0.00	0.00		2.30	2.30		-														
Fisher's	Power		---		Power-50%		---	P-value		0.234	Power	---		Power-50%		---	P-value		0.234	Power	---		Power-50%		---	P-value		0.234				
Stouffer's	Power		---		Power-50%		---	P-value		0.307	Power	---		Power-50%		---	P-value		0.307	Power	---		Power-50%		---	P-value		0.307				
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													
14.2C/14.2	3	2	0.00	0.00	5	0.50	0.50	-	-	0.374	2	0.00	0.00	5	0.50	0.50	-	-	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													
Habitat Means			0.00	0.00		0.17	0.17		-			0.00	0.00		0.17	0.17		-														
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		0.400	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-5.446. Page 4. December 15, 1994

Table C-5.447. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai, Sheltered Rocky, June 1992. Overstory removed 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	38.33	8.03	6	44.58	17.14	-	-	0.821	6	38.33	8.03	6	44.58	17.14	-	-	0.821	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000			
14.2C/14.2	1	6	32.08	20.31	4	0.00	0.00	-	+	0.177	6	32.08	20.31	4	0.00	0.00	-	+	0.177	6	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000			
62762C/50983	1	6	37.50	12.91	6	47.92	18.09	-	-	0.776	6	37.50	12.91	6	47.92	18.09	-	-	0.776	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000			
Habitat Means			35.97	13.73		30.83	11.73		-			35.97	13.73		30.83	11.73		-			0.00	0.00		0.00	0.00		0.00	o				
Fisher's			Power	0.014		Power-50%	0.694		P-value	0.696 y	Power	0.014		Power-50%	0.696		P-value	0.696 y	Power		---		Power-50%		---		P-value	0.655				
Stouffer's			Power	0.005		Power-50%	0.790		P-value	0.524	Power	0.003		Power-50%	0.792		P-value	0.524	Power		---		Power-50%		---		P-value	0.500				
14.1C/14.1	2	6	70.42	13.39	6	28.33	5.69	-	+	0.020	6	70.42	13.39	6	26.25	4.32	-	+	0.015	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000			
14.2C/14.2	2	6	75.00	16.44	4	8.75	7.11	-	+	0.025	6	72.92	17.01	4	8.75	7.11	-	+	0.030	6	0.42	0.42	4	0.00	0.00	0.00	-	+	0.363			
62762C/50983	2	6	36.67	9.30	6	50.42	13.11	-	-	0.411	6	36.67	9.30	6	50.42	13.11	-	-	0.411	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000			
Habitat Means			60.70	13.03		29.17	8.63		+			60.00	13.23		28.50	8.17		+			0.13	0.13		0.00	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	0.403				
Stouffer's			Power	0.487		Power-50%	0.897		P-value	0.291	Power	0.506		Power-50%	0.862		P-value	0.286	Power		---		Power-50%		---		P-value	0.398				
14.1C/14.1	3	6	14.17	6.08	6	64.58	14.61	-	-	0.026	6	14.17	6.08	6	63.75	14.34	-	-	0.027	6	0.00	0.00	6	42.92	17.71	-	-	0.051				
14.2C/14.2	3	2	85.00	12.50	5	59.50	17.86	-	+	0.505	2	85.00	12.50	5	59.50	17.86	-	+	0.505	2	48.75	48.75	5	20.30	14.54	-	+	0.517				
62762C/50983	3	6	54.17	16.88	4	88.75	7.18	-	-	0.119	6	54.17	16.88	4	88.75	7.18	-	-	0.119	6	39.17	15.37	4	0.00	0.00	-	-	0.029				
Habitat Means			51.13	11.83		70.97	13.23		-			51.13	11.83		70.70	13.13		-			29.33	21.40		21.13	10.73		-					
Fisher's			Power	---		Power-50%	---		P-value	0.021	Power	---		Power-50%	---		P-value	0.021	Power		---		Power-50%		---		P-value	0.081x				
Stouffer's			Power	---		Power-50%	---		P-value	0.031	Power	---		Power-50%	---		P-value	0.031	Power		---		Power-50%		---		P-value	0.052				

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

Table C-5.447, Page 1, December 15, 1994

Total <i>Fucus gardneri</i> (P)											Adult <i>Fucus gardneri</i> (P) (> 2cm)											Juvenile <i>Fucus gardneri</i> (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	38.33	8.03	6	44.58	17.14	-	-	0.821	6	36.67	8.23	6	44.58	17.14	-	-	0.767	6	1.67	1.67	6	0.00	0.00	0.00	-	+	0.363			
14.2C/14.2	1	6	32.08	20.31	4	0.00	0.00	-	+	0.177	6	32.08	20.31	4	0.00	0.00	-	+	0.177	6	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000			
62762C/50983	1	6	37.50	12.91	6	47.92	18.09	-	-	0.776	6	37.50	12.91	6	46.67	18.51	-	-	0.824	6	0.00	0.00	6	1.25	1.25	1.25	-	-	0.363			
Habitat Means			35.97	13.73		30.83	11.73		-			35.43	13.80		30.43	11.87		-			0.57	0.57		0.43	0.43		+					
Fisher's		Power	0.011		Power-50%	0.743		P-value	0.696 y	Power	0.011		Power-50%	0.701		P-value	0.693 y	Power	---		Power-50%	---		Power-50%	---		P-value	0.519				
Stouffer's		Power	0.005		Power-50%	0.811		P-value	0.524	Power	0.003		Power-50%	0.776		P-value	0.539	Power	---		Power-50%	---		Power-50%	---		P-value	0.717				
14.1C/14.1	2	6	70.42	13.39	6	26.25	4.32	-	+	0.015	6	70.42	13.39	6	26.25	4.32	-	+	0.015	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000			
14.2C/14.2	2	6	72.50	17.15	4	8.75	7.11	-	+	0.031	6	72.50	17.15	4	8.75	7.11	-	+	0.031	6	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000			
62762C/50983	2	6	36.67	9.30	6	50.42	13.11	-	-	0.411	6	36.67	9.30	6	50.42	13.11	-	-	0.411	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000			
Habitat Means			59.87	13.30		28.50	8.17		+			59.87	13.30		28.50	8.17		+			0.00	0.00		0.00	0.00		o					
Fisher's		Power	---		Power-50%	---		P-value	0.005	Power	---		Power-50%	---		P-value	0.005	Power	---		Power-50%	---		Power-50%	---		P-value	0.655				
Stouffer's		Power	0.498		Power-50%	0.880		P-value	0.288	Power	0.494		Power-50%	0.858		P-value	0.288	Power	---		Power-50%	---		Power-50%	---		P-value	0.500				
14.1C/14.1	3	6	14.17	6.08	6	17.50	10.72	-	-	0.962	6	11.25	5.73	6	17.50	10.72	-	-	0.874	6	2.92	2.92	6	0.00	0.00	0.00	-	+	0.363			
14.2C/14.2	3	2	36.25	36.25	5	39.00	18.68	-	-	0.793	2	36.25	36.25	5	39.00	18.68	-	-	0.793	2	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000			
62762C/50983	3	6	15.00	8.44	4	88.75	7.18	-	-	0.001	6	15.00	8.44	4	88.75	7.18	-	-	0.001	6	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000			
Habitat Means			21.83	16.93		48.43	12.20		-			20.87	16.80		48.43	12.20		-			0.97	0.97		0.00	0.00		+					
Fisher's		Power	---		Power-50%	---		P-value	0.005	Power	---		Power-50%	---		P-value	0.005	Power	---		Power-50%	---		Power-50%	---		P-value	0.403				
Stouffer's		Power	---		Power-50%	---		P-value	0.001	Power	---		Power-50%	---		P-value	0.001	Power	---		Power-50%	---		Power-50%	---		P-value	0.398				

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

Table C-5.447, Page 2, December 15, 1994

Table C-5.447. Algal Percent Cover, Phaeophyta, Cook Inlet/Kenai, Sheltered Rocky, June 1992, Overstory removed June 1990. (Continued.)

Fucus Stipes (P) (a)											Petalonia/Punctaria (AE) (b)											Morphological Group: Coarse 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				
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					

(a) Dead Fucus plants or stipes without blades.

(b) Genera not separated.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C 5.447, Page 1, December 15, 1994

Anelopus japonicus (P)											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	-	-	-	-	-	-	-	-	-	CV	-	-		
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	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	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	0.00	0.00	-	o	1.000		
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			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	0.655		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	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	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	0.00	0.00	-	o	1.000		
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			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	0.655		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	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	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	0.00	0.00	-	o	1.000		
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			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	0.655		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 &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C 5.447, Page 4, December 15, 1994

Table C-5.447. Algal Percent Cover, Phaeophyta, Cook Inlet/Kenai, Sheltered Rocky, June 1992. Overstory removed 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	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	0.83	0.83	-	-	0.363	6	0.00	0.00	6	0.83	0.83	-	-	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		0.27	0.27		-			0.00	0.00		0.27	0.27		-		
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		

(b) Elachista, Ectocarpus and Pilayella.

(a) Genera not separated.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.447, Page 5, December 15, 1994

Soranthera ulvoidea (A)										Morphological Group: Crustose Browns										Raifisia/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	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	2.08	2.08	-	-	0.363	6	0.00	0.00	6	2.08	2.08	-	-	0.363	
14.2C/14.2	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	2.08	2.08	4	0.00	0.00	-	-	0.363	6	2.08	2.08	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			0.70	0.70		0.70	0.70		-			0.70	0.70		0.70	0.70		-		
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	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	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		

(a) Genera not separated.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.447, Page 6, December 15, 1994

Table C-5.448. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1992. Overstory removed 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	0.42	0.42	6	5.42	4.49	-	-	0.307	6	0.00	0.00	6	0.00	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	12.50	7.64	4	3.13	3.13	-	-	0.218	6	2.50	1.71	4	0.00	0.00	0.00	-	+	0.183	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	1	6	9.17	6.11	6	0.83	0.83	-	-	0.267	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			7.37	4.70		3.10	2.80		+			0.83	0.57		0.00	0.00	0.00		-			0.00	0.00		0.00	0.00		0.00	o
Fisher's		Power		0.168		Power-50%	0.263		P-value	0.186	Power	0.007		Power-50%	0.009		P-value	0.272	Power	---		Power-50%	---		P-value	0.655			
Stouffer's		Power		0.104		Power-50%	0.449		P-value	0.141	Power	0.001		Power-50%	0.002		P-value	0.352	Power	---		Power-50%	---		P-value	0.500			
14.1C/14.1	2	6	16.67	6.01	6	34.58	6.00	-	-	0.066	6	5.42	4.10	6	24.58	6.04	-	-	0.009	6	0.00	0.00	6	0.00	0.00	-	o	1.000	
14.2C/14.2	2	6	7.08	6.14	4	24.38	16.81	-	-	0.262	6	6.25	6.25	4	1.88	1.88	-	-	0.791	6	0.00	0.00	4	0.00	0.00	-	o	1.000	
62762C/50983	2	6	2.92	1.50	6	0.42	0.42	-	+	0.167	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	
Habitat Means			8.90	4.53		19.80	7.73		-			4.33	3.90		8.83	2.63		-			0.00	0.00		0.00	0.00		0.00	o	
Fisher's		Power		---		Power-50%	---		P-value	0.086	Power	0.002		Power-50%	0.140		P-value	0.509 <sub>xy</sub>	Power	---		Power-50%	---		P-value	0.655			
Stouffer's		Power		0.089		Power-50%	0.544		P-value	0.663	Power	0.001		Power-50%	0.302		P-value	0.437	Power	---		Power-50%	---		P-value	0.500			
14.1C/14.1	3	6	44.58	9.56	6	28.33	14.39	-	+	0.381	6	6.25	4.91	6	5.42	4.00	-	-	0.949	6	0.00	0.00	6	0.00	0.00	-	o	1.000	
14.2C/14.2	3	2	12.50	10.00	5	32.00	14.56	-	-	0.542	2	5.00	5.00	5	9.00	3.92	-	-	0.562	2	0.00	0.00	5	0.00	0.00	-	o	1.000	
62762C/50983	3	6	13.33	4.82	4	11.25	7.18	-	+	0.729	6	1.67	0.83	4	9.38	5.63	-	-	0.284	6	0.00	0.00	4	0.00	0.00	-	o	1.000	
Habitat Means			23.47	8.13		23.87	12.07		+			4.33	3.57		7.93	4.50		-			0.00	0.00		0.00	0.00		0.00	o	
Fisher's		Power		0.097		Power-50%	0.487		P-value	0.427 <sub>y</sub>	Power	0.256		Power-50%	0.366		P-value	0.259	Power	---		Power-50%	---		P-value	0.655			
Stouffer's		Power		0.050		Power-50%	0.546		P-value	0.347	Power	0.243		Power-50%	0.491		P-value	0.130	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 5.448, Page 1, December 15, 1994

Gigartinaeae Group (P) (a)											Palmaria spp. (A)								Phycodrya 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	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	4	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				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				P-value	0.500
14.1C/14.1	2	6	2.50	1.58	6	3.33	2.86	-	-	0.950	6	0.00	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	2.50	2.50	4	1.88	1.88	-	+	0.976	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		
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			1.80	1.50		1.73	1.60		+			0.27	0.27		0.00	0.00		+			0.00	0.00		0.00	0.00		o			
Fisher's		Power	0.024		Power-50%	0.289		P-value	0.408	Power	---		Power-50%	---		P-value	0.403	Power	---		Power-50%	---		P-value	0.655				P-value	0.655
Stouffer's		Power	0.063		Power-50%	0.379		P-value	0.205	Power	---		Power-50%	---		P-value	0.398	Power	---		Power-50%	---		P-value	0.500				P-value	0.500
14.1C/14.1	3	6	1.25	1.25	6	2.08	1.00	-	-	0.418	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		
14.2C/14.2	3	2	1.25	1.25	5	4.50	2.29	-	-	0.538	2	1.25	1.25	5	2.50	2.50	-	-	0.958	2	0.00	0.00	5	0.00	0.00	-	o	1.000		
62762C/50983	3	6	0.83	0.83	4	2.50	2.50	-	-	0.603	6	0.42	0.42	4	6.88	4.00	-	-	0.117	6	0.00	0.00	4	0.00	0.00	-	o	1.000		
Habitat Means			1.13	1.13		3.03	1.93		-			0.57	0.57		3.83	2.87		-			0.00	0.00		0.00	0.00		o			
Fisher's		Power	0.248		Power-50%	---		P-value	0.227	Power	0.354		Power-50%	---		P-value	0.103	Power	---		Power-50%	---		P-value	0.655				P-value	0.655
Stouffer's		Power	0.304		Power-50%	---		P-value	0.189	Power	---		Power-50%	---		P-value	0.044	Power	---		Power-50%	---		P-value	0.500				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 5.448, Page 2, December 15, 1994



Table C-5.448. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai, Sheltered Rocky. June 1992. Overstory removed June 1990. (Continued.)

Porphyra sp. (A)											Tokidadendron kurilensis (A)											Morphological Group: Coarse Filamentous Reds										
S	Site	Mvd	N	C	SE	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	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000	6	0.00	0.00	6	5.42	4.49	-	-	0.219		
14.2C/14.2	1	6	2.50	1.71	4	0.00	0.00	0.00	-	+	0.183	6	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000	6	10.00	8.09	4	3.13	3.13	-	-	0.529		
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000	6	9.17	6.11	6	0.83	0.83	-	-	0.267		
Habitat Means				0.83	0.57		0.00	0.00		+			0.00	0.00		0.00	0.00		o			6.40	4.73		3.10	2.80						
Fisher's	Power		0.008		Power-50%		0.010		P-value	0.272	Power	---		Power-50%		---		P-value	0.655	Power	0.023		Power-50%		0.063		P-value	0.328				
Stouffer's	Power		0.001		Power-50%		0.001		P-value	0.352	Power	---		Power-50%		---		P-value	0.500	Power	0.009		Power-50%		0.129		P-value	0.199				
14.1C/14.1	2	6	2.92	2.92	6	21.25	7.41	-	-	0.023	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000	6	4.17	1.90	6	7.08	3.44	-	-	0.537			
14.2C/14.2	2	6	2.92	2.92	4	0.00	0.00	-	+	0.363	6	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000	6	0.83	0.83	4	22.50	15.03	-	-	0.180			
62762C/50983	2	6	0.83	0.83	6	0.00	0.00	0.00	-	-	0.363	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		
Habitat Means				2.20	2.20		7.10	2.47		-			0.00	0.00		0.00	0.00		o			1.67	0.90		9.87	6.13		-				
Fisher's	Power		0.003		Power-50%		---		P-value	0.335xy	Power	---		Power-50%		---		P-value	0.655	Power	0.208		Power-50%		0.216		P-value	0.184				
Stouffer's	Power		0.002		Power-50%		---		P-value	0.329	Power	---		Power-50%		---		P-value	0.500	Power	0.224		Power-50%		0.232		P-value	0.288				
14.1C/14.1	3	6	5.00	5.00	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	1.25	1.25	-	-	0.363	6	21.25	9.35	6	6.25	3.64	-	+	0.158				
14.2C/14.2	3	2	2.50	2.50	5	2.00	2.00	-	+	0.710	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	7.50	5.00	5	4.00	1.70	-	+	0.427				
62762C/50983	3	6	0.42	0.42	4	0.00	0.00	0.00	-	+	0.363	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	3.75	2.12	4	0.00	0.00	-	+	0.096			
Habitat Means				2.63	2.63		0.67	0.67		+			0.00	0.00		0.43	0.43		-			10.87	5.50		3.43	1.77						
Fisher's	Power		---		Power-50%		---		P-value	0.180	Power	---		Power-50%		---		P-value	0.403	Power	---		Power-50%		---		P-value	0.027				
Stouffer's	Power		---		Power-50%		---		P-value	0.116	Power	---		Power-50%		---		P-value	0.398	Power	---		Power-50%		---		P-value	0.016				

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

Table C-5.448. Page 5. December 15, 1994

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	0.00	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	10.00	8.09	4	3.13	3.13	-	+	0.529				
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	9.17	6.11	6	0.83	0.83	-	+	0.267				
Habitat Means			0.00	0.00		0.00			o			0.00	0.00		0.00	0.00		o			6.40	4.73		1.30	1.30		+					
Fisher's	Power		---		Power-50%		---		P-value	0.655	Power	---		Power-50%		---		P-value	0.655	Power	0.051		Power-50%		0.066		P-value	0.233				
Stouffer's	Power		---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500	Power	0.083		Power-50%		0.107		P-value	0.116				
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	3.75	-	-	0.363	6	1.25	1.25	6	0.83	0.83	-	+	0.887				
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	2.50	1.77	-	-	0.204				
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	0.00	-	o	1.000			
Habitat Means			0.00	0.00		0.00			o			0.00	0.00		1.27	1.27		-			0.43	0.43		1.10	0.87		-					
Fisher's	Power		---		Power-50%		---		P-value	0.655	Power	---		Power-50%		---		P-value	0.403	Power	0.021		Power-50%		---		P-value	0.310				
Stouffer's	Power		---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.398	Power	0.028		Power-50%		---		P-value	0.374				
14.1C/14.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	2.08	1.64	6	0.00	0.00	-	-	0.204	6	0.00	0.00	6	0.00	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	2.50	1.58	-	-	0.181	2	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000			
62762C/50983	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	1.67	1.24	4	0.00	0.00	-	+	0.194	6	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000			
Habitat Means			0.00	0.00		0.00			o			1.27	0.93		0.83	0.53		+			0.00	0.00		0.00	0.00		o					
Fisher's	Power		---		Power-50%		---		P-value	0.655	Power	0.066		Power-50%		0.087		P-value	0.151	Power	---		Power-50%		---		P-value	0.655				
Stouffer's	Power		---		Power-50%		---		P-value	0.500	Power	0.026		Power-50%		0.166		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.

Table C-5.448. Page 4. December 15, 1994

Table C-5.448. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1992. Overstory removed June 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	6	0.00	0.00	6	5.42	4.49	-	-	0.219	6	0.00	0.00	6	0.00	0.00	-	-	1.000	6	0.00	0.00	6	0.00	0.00	-	-	1.000
14.2C/14.2	1	6	0.00	0.00	4	0.00	0.00	-	-	1.000	6	0.00	0.00	4	0.00	0.00	-	-	1.000	6	0.00	0.00	4	0.00	0.00	-	-	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	-	1.000	6	0.00	0.00	6	0.00	0.00	-	-	1.000	6	0.00	0.00	6	0.00	0.00	-	-	1.000
Habitat Means			0.00	0.00		1.80	1.50	-				0.00	0.00		0.00	0.00	-				0.00	0.00		0.00	0.00	-		
Fisher's	Power		0.001		Power-50%		---	P-value	0.303	Power	---		Power-50%		---	P-value	0.655	Power	---		Power-50%		---	P-value	0.655			
Stouffer's	Power		0.000		Power-50%		---	P-value	0.363	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	0.83	0.83	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	-	1.000	6	0.42	0.42	6	0.00	0.00	-	-	0.363
14.2C/14.2	2	6	0.83	0.83	4	20.00	13.58	-	-	0.247	6	0.00	0.00	4	0.00	0.00	-	-	1.000	6	0.00	0.00	4	0.00	0.00	-	-	1.000
62762C/50983	2	6	0.00	0.00	6	0.00	0.00	-	-	1.000	6	0.00	0.00	6	0.00	0.00	-	-	1.000	6	0.00	0.00	6	0.00	0.00	-	-	1.000
Habitat Means			0.27	0.27		6.93	4.80	-				0.00	0.00		0.00	0.00	-				0.13	0.13		0.00	0.00	-		
Fisher's	Power		0.162		Power-50%		---	P-value	0.175	Power	---		Power-50%		---	P-value	0.655	Power	---		Power-50%		---	P-value	0.403			
Stouffer's	Power		0.193		Power-50%		---	P-value	0.278	Power	---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value	0.398			
14.1C/14.1	3	6	1.67	1.67	6	0.00	0.00	-	-	0.363	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	3.75	2.39	6	0.00	0.00	-	-	0.176
14.2C/14.2	3	2	0.00	0.00	5	0.00	0.00	-	-	1.000	2	0.00	0.00	5	0.00	0.00	-	-	1.000	2	0.00	0.00	5	0.00	0.00	-	-	1.000
62762C/50983	3	6	0.00	0.00	4	0.00	0.00	-	-	1.000	6	0.00	0.00	4	0.00	0.00	-	-	1.000	6	0.00	0.00	4	0.00	0.00	-	-	1.000
Habitat Means			0.57	0.57		0.00	0.00	-				0.00	0.00		0.13	0.13	-				1.27	0.80		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	0.266			
Stouffer's	Power		---		Power-50%		---	P-value	0.398	Power	---		Power-50%		---	P-value	0.398	Power	---		Power-50%		---	P-value	0.350			

(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-5.448. Page 5. December 15, 1994

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	2.50	1.71	6	1.67	1.67	-	-	0.648	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				
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	1.25	0.85	6	0.42	0.42	-	-	0.462				
Habitat Means			0.83	0.57		0.57	0.57	-	+			0.00	0.00		0.00	0.00		o			0.43	0.30		0.40	0.40		-					
Fisher's	Power		0.003		Power-50%		0.011	P-value	0.540	Power	---		Power-50%		---	P-value	0.655	Power	---		Power-50%		---	P-value	0.503 y							
Stouffer's	Power		0.000		Power-50%		0.001	P-value	0.448	Power	---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value	0.660							
14.1C/14.1	3	6	13.75	9.46	6	0.42	0.42	-	+	0.182	6	0.00	0.00	6	5.42	3.56	-	+	0.179	6	1.67	1.24	6	1.25	0.85	-	+	0.895				
14.2C/14.2	3	2	6.25	6.25	5	1.50	1.50	-	+	0.391	2	1.25	1.25	5	0.00	0.00	-	+	0.500	2	0.00	0.00	5	0.50	0.50	-	-	0.374				
62762C/50983	3	6	2.08	1.36	4	0.00	0.00	-	+	0.178	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	1.67	1.24	4	1.88	1.88	-	-	0.968				
Habitat Means			7.40	5.73		0.63	0.63	-	+			0.43	0.43		1.80	1.20	-				1.13	0.80		1.23	1.10	-						
Fisher's	Power		---		Power-50%		---	P-value	0.045	Power	0.011		Power-50%		---	P-value	0.341	Power	0.029		Power-50%		---	P-value	0.424							
Stouffer's	Power		---		Power-50%		---	P-value	0.032	Power	0.001		Power-50%		---	P-value	0.424	Power	0.062		Power-50%		---	P-value	0.401							

(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-5.448. Page 6. December 15, 1994

Table C-5.448. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai, Sheltered Rocky. June 1992. Overstory removed June 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	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	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	0.83	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	
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	1.25	0.85	6	0.42	0.42	-	-	0.462	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			0.43	0.30		0.40	0.40		-			0.00	0.00		0.00	0.00		o			0.13	0.13		0.00	0.00		+		
Fisher's	Power		0.000		Power-50%		0.008	P-value	0.503	Power	---		Power-50%		---	P-value	0.655	Power	---		Power-50%		---	P-value	0.403				
Stouffer's	Power		0.003		Power-50%		0.002	P-value	0.660	Power	---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value	0.203				
14.1C/14.1	3	6	1.67	1.24	6	1.25	0.85	-	+	0.895	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	11.67	5.69	6	0.00	0.00	-	+	0.082	
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	3.00	3.00	-	-	0.374	
62762C/50983	3	6	1.67	1.24	4	1.88	1.88	-	-	0.968	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	6.25	2.39	4	0.00	0.00	-	+	0.031	
Habitat Means			1.13	0.80		1.23	1.20		-			0.00	0.00		0.00	0.00		o			6.00	2.70		1.00	1.00		-		
Fisher's	Power		0.040		Power-50%		0.113	P-value	0.424	Power	---		Power-50%		---	P-value	0.655	Power	---		Power-50%		---	P-value	0.019				
Stouffer's	Power		0.067		Power-50%		0.220	P-value	0.401	Power	---		Power-50%		---	P-value	0.500	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.

Table C-5.448, Page 7, December 15, 1994

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	6	0.00	0.00	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	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			0.13	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	0.00	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	3.38	6	2.08	2.08	-	-	0.099				
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	0.42	0.42	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000				
Habitat Means			0.00	0.00		0.00	0.00		o			0.13	0.13		0.00	0.00		+			2.37	1.23		0.70	0.70		-					
Fisher's	Power		---		Power-50%		---	P-value	0.655	Power	---		Power-50%		---	P-value	0.403	Power	---		Power-50%		---	P-value	0.186							
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value	0.203	Power	---		Power-50%		---	P-value	0.319							
14.1C/14.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	11.67	5.69	6	0.00	0.00	-	+	0.082	6	3.75	2.87	6	15.42	15.42	-	-	0.652				
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	3.00	-	-	0.374	2	0.00	0.00	5	15.50	12.10	-	-	0.219				
62762C/50983	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	6.25	2.39	4	0.00	0.00	-	+	0.031	6	0.00	0.00	4	0.00	0.00	-	o	1.000				
Habitat Means			0.00	0.00		0.00	0.00		o			6.00	2.70		1.00	1.00		+			1.27	0.97		10.30	9.17		-					
Fisher's	Power		---		Power-50%		---	P-value	0.655	Power	---		Power-50%		---	P-value	0.019	Power	---		Power-50%		---	P-value	0.234							
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value	0.013	Power	---		Power-50%		---	P-value	0.316							

(\*) 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-5.448, Page 8, December 15, 1994

Table C-5.448. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1992. Overstory removed June 1990. (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	0.42	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	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			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	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	7.08	3.38	6	2.08	2.08	-	-	0.099	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	1.13		0.70	0.70		+			0.00	0.00		0.00	0.00		o		
Fisher's	Power		---		Power-50%		---	P-value	0.655	Power		0.060		Power-50%		0.038	P-value	0.186	Power		---		Power-50%		---	P-value	0.655		
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power		0.018		Power-50%		0.018	P-value	0.319	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	3.75	2.87	6	15.42	15.42	-	-	0.652	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	15.50	12.10	-	-	0.219	
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			1.27	0.97		5.13	5.13		-			0.00	0.00		5.17	4.03		-		
Fisher's	Power		---		Power-50%		---	P-value	0.655	Power		0.000		Power-50%		0.002	P-value	0.542	Power		0.002		Power-50%		---	P-value	0.303		
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power		0.000		Power-50%		0.000	P-value	0.449	Power		0.000		Power-50%		---	P-value	0.363		

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

Table C-5.448. Page 9. December 15, 1994

**Table C-5.449. Algal Percent Cover. Invertebrates. Cook Inlet/Kenai. Sheltered Rocky. June 1992. Overstory removed 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	1.67	1.24	6	3.75	1.41	-	-	0.268	6	0.00	0.00	6	0.00	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	8.75	5.76	4	5.62	5.63	-	+	0.665	6	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	27.92	10.05	6	6.67	3.96	-	+	0.080	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			12.80	5.70		5.37	3.67		-			0.00	0.00		0.00	0.00	0.00		o	
Fisher's			Power	---		Power-50%	---		P-value	0.655	Power	0.197			Power-50%	0.370		P-value	0.177	Power	---			Power-50%	---		P-value	0.655	
Stouffer's			Power	---		Power-50%	---		P-value	0.500	Power	---			Power-50%	---		P-value	0.079	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	1.24	6	4.58	2.36	-	-	0.273	6	0.00	0.00	6	0.00	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	10.63	6.32	-	-	0.131	6	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	21.25	10.48	6	9.17	2.71	-	+	0.420	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			7.93	4.17		8.13	3.80		-			0.00	0.00		0.00	0.00	0.00		o	
Fisher's			Power	---		Power-50%	---		P-value	0.655	Power	0.238			Power-50%	0.273		P-value	0.129	Power	---			Power-50%	---		P-value	0.655	
Stouffer's			Power	---		Power-50%	---		P-value	0.500	Power	0.186			Power-50%	0.397		P-value	0.498	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	5.42	1.76	6	0.00	0.00	-	+	0.010	6	0.00	0.00	6	0.00	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	2.50	2.50	-	-	0.374	2	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
62762C/50983	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	9.58	6.87	4	0.00	0.00	-	+	0.139	6	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			5.00	2.90		0.83	0.83		-			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	0.012	Power	---			Power-50%	---		P-value	0.655	
Stouffer's			Power	---		Power-50%	---		P-value	0.500	Power	---			Power-50%	---		P-value	0.033	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-5.449. Page 1. December 15, 1994

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	0.42	0.42	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	1.25	0.85	-	-	0.183	6	0.00	0.00	6	0.00	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	5.00	5.00	-	-	0.391	6	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	19.58	10.69	6	0.83	0.83	-	+	0.132	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
Habitat Means			0.13	0.13		0.00	0.00		+			6.53	3.57		2.37	2.23		-			0.00	0.00		0.00	0.00		o		
Fisher's	Power		---		Power-50%		---		P-value	0.403	Power	0.022		Power-50%		0.016		P-value	0.225	Power	---		Power-50%		---		P-value	0.655	
Stouffer's	Power		---		Power-50%		---		P-value	0.398	Power	0.008		Power-50%		0.006		P-value	0.774	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	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	4.37	4.37	-	-	0.391	6	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	20.42	11.59	6	7.08	3.79	-	-	0.330	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
Habitat Means			0.27	0.27		0.00	0.00		+			6.80	3.87		3.83	2.73		-			0.00	0.00		0.00	0.00		o		
Fisher's	Power		---		Power-50%		---		P-value	0.223	Power	0.020		Power-50%		0.023		P-value	0.491	Power	---		Power-50%		---		P-value	0.655	
Stouffer's	Power		---		Power-50%		---		P-value	0.138	Power	0.002		Power-50%		0.006		P-value	0.259	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	1.67	1.67	6	0.00	0.00	-	+	0.363	6	0.42	0.42	6	0.00	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	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
62762C/50983	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	14.58	9.50	4	0.00	0.00	-	+	0.179	6	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			5.43	3.73		0.00	0.00		+			0.13	0.13		0.00	0.00		+		
Fisher's	Power		---		Power-50%		---		P-value	0.655	Power	0.106		Power-50%		0.102		P-value	0.141	Power	---		Power-50%		---		P-value	0.403	
Stouffer's	Power		---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.068	Power	---		Power-50%		---		P-value	0.398	

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

Table C-5.449. Page 2. December 15, 1994

Table C-5.449. Algal Percent Cover. Invertebrates. Cook Inlet/Kenai. Sheltered Rocky. June 1992. Overstory removed June 1990. (Continued.)

Site Pair	Mvd	N	Littorinidae								Porifera								Cnidaria									
			C	SE	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	0.00	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		0.13	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 0.403	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	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	0.00	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		0.20	0.20	-				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 0.419	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	0.42	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	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		0.13	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 0.403	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

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

**Table C-5.450. Algal Percent Cover. Substrates. Cook Inlet/Kenai. Sheltered Rocky. June 1992. Overstory removed 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	59.17	9.19	6	44.58	13.96	-	-	0.344	6	0.00	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	46.67	16.75	4	86.25	10.03	-	-	0.088	6	0.00	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	5.83	2.01	6	43.75	16.87	-	-	0.042	6	0.00	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			37.23	9.33		58.23	13.63					0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's																												
Stouffer's																												
14.1C/14.1	2	6	10.83	6.88	6	27.08	8.25	-	-	0.085	6	0.00	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	16.25	15.76	4	46.25	13.48	-	-	0.135	6	0.00	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	12.50	6.74	6	16.25	8.43	-	-	0.853	6	0.00	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			13.20	9.80		29.90	10.07					0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's																												
Stouffer's																												
14.1C/14.1	3	6	30.83	10.32	6	0.42	0.42	-	+	0.020	6	0.00	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	7.08	6.14	4	0.00	0.00	-	+	0.233	6	0.00	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			12.63	5.47		0.30	0.30					0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's																												
Stouffer's																												

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

Table C 5.450. Page 1. December 15, 1994

Site Pair	Mvd	N	Sand								Shell Fragments								Filamentous Diatoms										
			C	SE	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	Power	---		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	Power	---		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	10.83	10.83	-	-	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	
Habitat Means			0.00	0.00		3.60	3.60		-			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		0.403	Power	---		Power-50%	---	P-value		0.655	Power	---		Power-50%	---	P-value		0.655	Power	---		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	Power	---		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	Power	---		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	Power	---		0.500

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

Table C 5.450. Page 2. December 15, 1994

Table C-5.450. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Sheltered Rocky. June 1992. Overstory removed June 1990. (Continued.)

Sand and Mud										Total Substrate																			
Site Pair	Method	C	SE	N	n	SR	CV	D	P	N	C	SE	N	n	SE	CV	D	P	N	C	SE	N	n	SE	CV	D	P		
14.1C/14.1	1 6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	46.67	16.75	4	86.25	10.03	-	-	0.088											
14.2C/14.2	1 6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	5.83	2.01	6	43.75	16.87	-	-	0.042											
62762C/50983	1 6	0.00	0.00	6	0.00	0.00	-	o	1.000	6			6																
Habitat Means		0.00	0.00		0.00	0.00		o			37.23	9.33		58.23	13.63		-												
Fisher's	Power	---			Power-50%	---		P-value	0.655	Power	---			Power-50%	---		P-value	0.026	Power	---					Power-50%	---		P-value	
Stouffer's	Power	---			Power-50%	---		P-value	0.500	Power	---			Power-50%	---		P-value	0.019	Power	---					Power-50%	---		P-value	
14.1C/14.1	2 6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	10.83	6.88	6	27.08	8.25	-	-	0.085											
14.2C/14.2	2 6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	16.25	15.76	4	46.25	13.48	-	-	0.135											
62762C/50983	2 6	0.00	0.00	6	10.83	10.83	-	-	0.363	6	12.50	6.74	6	27.08	10.87	-	-	0.330											
Habitat Means		0.00	0.00		3.60	3.60		-			13.20	9.80		33.50	10.90		-												
Fisher's	Power	---			Power-50%	---		P-value	0.403	Power	---			Power-50%	---		P-value	0.018	Power	---					Power-50%	---		P-value	
Stouffer's	Power	---			Power-50%	---		P-value	0.203	Power	---			Power-50%	---		P-value	0.035	Power	---					Power-50%	---		P-value	
14.1C/14.1	3 6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	30.83	10.32	6	0.42	0.42	-	+	0.020											
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											
62762C/50983	3 6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	7.08	6.14	4	0.00	0.00	-	+	0.233											
Habitat Means		0.00	0.00		0.00	0.00		o			12.63	5.47		0.30	0.30		+												
Fisher's	Power	---			Power-50%	---		P-value	0.655	Power	---			Power-50%	---		P-value	0.030	Power	---					Power-50%	---		P-value	
Stouffer's	Power	---			Power-50%	---		P-value	0.500	Power	---			Power-50%	---		P-value	0.067	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-5.450. Page 3. December 15, 1994



Table C-5.451. Algal Percent Cover, Totals and Seasonal Groups, Prince William Sound, Sheltered Rocky, August 1993. Overstory removed 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.

Site Pair	Mvd	N	Algal Diversity Index (a)							Algal Taxa Richness (b)							Total Algae											
			C	SE	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	0.83	0.17	5	0.20	0.20	-	+	0.036	6	55.42	16.92	5	4.50	4.50	-	-	0.025
453C/453	1	6	0.05	0.05	6	0.00	0.00	-	+	0.363	6	1.00	0.26	6	0.67	0.21	-	+	0.341	6	44.17	18.58	6	35.00	15.29	-	+	0.550
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.50	0.22	6	0.00	0.00	-	+	0.076	6	21.67	15.67	6	0.00	0.00	-	+	0.163
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	5	0.00	0.00	-	o	1.000	6	0.50	0.22	5	0.80	0.20	-	-	0.353	6	19.58	16.26	5	41.00	21.22	-	-	0.453
Habitat Means			0.01	0.01		0.00	0.00		+			0.57	0.17		0.33	0.12		+			28.18	13.50		16.10	8.20		+	
Fisher's	Power		---			Power-50%	---		P-value	0.536	Power	---			Power-50%	---		P-value	0.030	Power	---			Power-50%	---		P-value	0.050
Stouffer's	Power		---			Power-50%	---		P-value	0.315	Power		0.601		Power-50%		0.958	P-value	0.155	Power		0.131		Power-50%		0.325	P-value	0.213
4825C/1424	2	5	0.00	0.00	5	0.02	0.02	-	-	0.374	5	1.00	0.00	5	0.80	0.37	-	-	0.621	5	66.50	16.33	5	56.50	23.15	-	-	0.637
453C/453	2	4	0.17	0.11	6	0.22	0.07	-	-	0.725	4	2.50	0.87	6	2.00	0.58	-	-	0.629	4	88.13	3.12	6	23.75	13.22	-	-	0.007
601C/601	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	1.00	0.00	5	0.40	0.24	-	+	0.070	6	20.83	5.61	5	39.00	23.90	-	-	0.742
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.33	0.21	6	0.50	0.22	-	-	0.600	6	5.42	4.93	6	20.83	16.15	-	-	0.366
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.83	0.17	4	1.00	0.00	-	-	0.363	6	47.08	16.26	4	67.50	20.34	-	-	0.405
Habitat Means			0.03	0.02		0.05	0.02		-			1.13	0.25		0.94	0.28		+			45.58	9.24		41.52	19.36		-	
Fisher's	Power		0.025			Power-50%	0.027		P-value	0.481	Power	0.361			Power-50%	1.000		P-value	0.256	Power	0.070			Power-50%	0.815		P-value	0.500xy
Stouffer's	Power		0.017			Power-50%	0.002		P-value	0.378	Power		0.203		Power-50%	1.000		P-value	0.442	Power		0.027		Power-50%	0.873		P-value	0.712
4825C/1424	3	3	0.07	0.07	5	0.28	0.11	-	-	0.224	3	1.33	0.33	5	3.60	0.87	-	-	0.105	3	91.67	6.01	5	88.50	10.89	-	-	0.901
453C/453	3	4	0.07	0.07	4	0.00	0.00	-	-	0.391	4	1.25	0.25	4	0.25	0.25	-	+	0.030	4	65.63	20.09	4	3.13	3.13	-	-	0.015
601C/601	3	5	0.13	0.05	3	0.09	0.09	-	+	0.672	5	1.80	0.20	3	1.33	0.33	-	+	0.244	5	76.50	10.39	3	67.50	32.50	-	-	0.980
598C/598	3	6	0.08	0.05	6	0.00	0.00	-	+	0.181	6	1.50	0.56	6	0.83	0.17	-	+	0.283	6	58.33	17.74	6	52.92	18.53	-	-	0.902
1522C/1522	3	5	0.04	0.04	1	0.13	--	-	-	---	5	1.20	0.20	1	2.00	--	-	-	---	5	89.50	6.44	1	85.00	--	-	-	---
Habitat Means			0.08	0.06		0.10	0.05		+			1.42	0.31		1.60	0.41		+			76.32	12.12		59.40	16.25		-	
Fisher's	Power		0.182			Power-50%	0.462		P-value	0.232 y	Power	---			Power-50%	---		P-value	0.034 y	Power	---			Power-50%	---		P-value	0.073
Stouffer's	Power		---			Power-50%	---		P-value	0.073	Power	---			Power-50%	---		P-value	0.019	Power	---			Power-50%	---		P-value	0.075

(a) Modified Shannon Index.

(b) Taxa richness calculations are explained in the methods.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.451. Page 1, December 15, 1994

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	5	35.50	19.26	-	-	0.114	6	44.58	16.92	5	59.50	21.13	-	-	0.589	6	55.42	16.92	5	4.50	4.50	-	-	0.025	
453C/453	1	6	0.00	0.00	6	6.67	3.96	-	-	0.065	6	55.83	18.58	6	58.33	15.22	-	-	0.762	6	35.00	14.99	6	35.00	15.29	-	-	0.814	
601C/601	1	6	8.33	2.47	6	4.58	1.87	-	+	0.194	6	70.00	14.79	6	95.42	1.87	-	-	0.090	6	21.67	15.67	6	0.00	0.00	-	-	0.163	
598C/598	1	6	1.25	0.85	6	3.75	2.56	-	-	0.576	6	98.75	0.85	6	96.25	2.56	-	+	0.576	6	0.00	0.00	6	0.00	0.00	-	o	1.000	
1522C/1522	1	6	17.92	12.59	5	12.50	6.66	-	+	0.952	6	62.50	16.81	5	46.50	17.51	-	-	0.528	6	19.58	16.26	5	41.00	21.22	-	-	0.453	
Habitat Means			5.50	3.20		12.62	6.90		-			66.34	13.60		71.20	11.66		-			26.34	12.78		16.10	8.20		+		
Fisher's	Power		---		Power-50%		---	P-value	0.084		Power	0.048		Power-50%		0.877	P-value	0.294		Power	---		Power-50%		---	P-value	0.064		
Stouffer's	Power		---		Power-50%		---	P-value	0.094		Power	0.035		Power-50%		0.918	P-value	0.475		Power	0.119		Power-50%		0.397	P-value	0.273		
4825C/1424	2	5	1.50	1.50	5	9.00	9.00	-	-	0.576	5	32.00	16.65	5	34.50	19.05	-	-	0.848	5	66.50	16.33	5	56.50	23.15	-	+	0.637	
453C/453	2	4	1.88	0.63	6	9.58	4.54	-	-	0.218	4	10.00	3.23	6	66.67	12.29	-	-	0.007	4	86.25	2.39	6	14.58	9.34	-	+	0.001	
601C/601	2	6	12.08	9.80	5	6.00	4.00	-	+	0.791	6	67.08	9.90	5	52.00	21.01	-	+	0.546	6	20.83	5.61	5	39.00	23.90	-	-	0.742	
598C/598	2	6	15.42	5.53	6	7.08	3.73	-	+	0.149	6	69.17	10.20	6	72.08	14.94	-	-	0.914	6	5.42	4.93	6	20.83	16.15	-	-	0.366	
1522C/1522	2	6	27.08	12.72	4	6.25	4.73	-	+	0.138	6	25.83	8.77	4	24.37	15.69	-	+	0.943	6	47.08	16.26	4	67.50	20.34	-	-	0.405	
Habitat Means			11.60	6.02		7.60	5.18		+			40.82	9.76		49.94	16.60		-			45.22	9.10		39.68	18.58		-		
Fisher's	Power		0.166		Power-50%		0.849	P-value	0.207		Power	---		Power-50%		---	P-value	0.089		Power	0.062		Power-50%		0.798	P-value	0.500xy		
Stouffer's	Power		0.079		Power-50%		0.901	P-value	0.224		Power	---		Power-50%		---	P-value	0.084		Power	0.011		Power-50%		0.870	P-value	0.825		
4825C/1424	3	3	0.83	0.83	5	0.00	0.00	-	-	0.423	3	7.50	5.20	5	11.50	10.89	-	-	0.934	3	91.67	6.01	5	78.00	14.82	-	+	0.546	
453C/453	3	4	5.00	5.00	4	0.63	0.63	-	-	0.557	4	29.37	19.19	4	96.25	2.98	-	-	0.012	4	64.38	21.10	4	3.13	3.13	-	+	0.020	
601C/601	3	5	0.50	0.50	3	1.67	1.67	-	-	0.554	5	22.50	10.34	3	28.33	28.33	-	-	0.928	5	36.50	15.94	3	44.17	29.02	-	-	0.740	
598C/598	3	6	5.42	3.19	6	3.75	1.68	-	+	0.933	6	24.58	15.51	6	28.33	15.41	-	-	0.949	6	42.50	15.40	6	52.92	18.53	-	-	0.606	
1522C/1522	3	5	4.50	3.00	1	0.00	--	-	+	---	5	6.00	3.76	1	15.00	--	-	-	---	5	87.00	8.12	1	85.00	--	-	+	---	
Habitat Means			3.24	2.50		1.22	1.00		+			18.00	10.80		35.88	14.40		-			64.42	13.30		52.64	16.35		+		
Fisher's	Power		0.050		Power-50%		0.246	P-value	0.449		Power	---		Power-50%		---	P-value	0.063		Power	---		Power-50%		---	P-value	0.096		
Stouffer's	Power		0.091		Power-50%		0.431	P-value	0.360		Power	---		Power-50%		---	P-value	0.073		Power	0.274		Power-50%		0.890	P-value	0.194		

Table C-5.451. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed May 1990. (Continued.)

Site Pair	Mvd	N	Annuals (A)								Ephemerals (AE)																		
			C	SE	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	9.17	9.17	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	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000										
Habitat Means			1.84	1.84		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	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	4	1.88	1.20	6	9.17	5.07	-	-	0.345	4	0.00	0.00	6	2.08	1.00	-	-	0.081										
601C/601	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										
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			0.38	0.24		1.84	1.02		-			0.00	0.00		0.42	0.20		-											
Fisher's	Power		0.001		Power-50%		0.026	P-value	0.527	Power	0.013		Power-50%		---	P-value	0.287	Power	---		Power-50%		---	P-value					
Stouffer's	Power		0.000		Power-50%		0.008	P-value	0.308	Power	0.003		Power-50%		---	P-value	0.177	Power	---		Power-50%		---	P-value					
4825C/1424	3	3	0.00	0.00	5	10.50	4.90	-	-	0.079	3	0.00	0.00	5	0.00	0.00	-	o	1.000										
453C/453	3	4	1.25	1.25	4	0.00	0.00	-	+	0.391	4	0.00	0.00	4	0.00	0.00	-	o	1.000										
601C/601	3	5	40.00	19.17	3	23.33	23.33	-	+	0.571	5	40.00	19.17	3	23.33	23.33	-	-	0.571										
598C/598	3	6	15.83	13.49	6	0.00	0.00	-	+	0.240	6	15.83	13.49	6	0.00	0.00	-	-	0.240										
1522C/1522	3	5	2.50	2.50	1	0.00	--	-	+	---	5	0.00	0.00	1	0.00	--	-	o	---										
Habitat Means			11.92	7.30		6.76	7.05		+			11.16	6.54		4.66	5.82		+											
Fisher's	Power		0.052		Power-50%		0.064	P-value	0.258x	Power	0.021		Power-50%		0.012	P-value	0.300	Power	---		Power-50%		---	P-value					
Stouffer's	Power		---		Power-50%		---	P-value	0.100	Power	0.029		Power-50%		0.025	P-value	0.143	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-5.452. Algal Percent Cover. Chlorophyta. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed 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	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	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	Power	---		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	Power	---		P-value	0.500
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	5	0.00	0.00	5	0.00	0.00	-	o	1.000		
453C/453	2	4	0.63	0.63	6	2.08	1.00	-	-	0.376	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		
601C/601	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		
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			0.12	0.12		0.42	0.20		-			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%	---		P-value	0.543	Power	---		Power-50%	---		P-value	0.732	Power	---		Power-50%	---		P-value	0.732	Power	---		P-value	0.732
Stouffer's	Power		0.002		Power-50%	---		P-value	0.319	Power	---		Power-50%	---		P-value	0.500	Power	---		Power-50%	---		P-value	0.500	Power	---		P-value	0.500
4825C/1424	3	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	3	0.00	0.00	5	0.00	0.00	-	o	1.000		
453C/453	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		
601C/601	3	5	40.00	19.17	3	23.33	23.33	-	-	0.571	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		
598C/598	3	6	15.83	13.49	6	0.00	0.00	-	+	0.240	6	0.00	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	2.50	2.50	1	0.00	--	-	+	---	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---		
Habitat Means			11.66	7.04		4.76	5.95		+			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%	0.025		P-value	0.381	Power	---		Power-50%	---		P-value	0.698	Power	---		Power-50%	---		P-value	0.698	Power	---		P-value	0.698
Stouffer's	Power		0.011		Power-50%	0.035		P-value	0.173	Power	---		Power-50%	---		P-value	0.500	Power	---		Power-50%	---		P-value	0.500	Power	---		P-value	0.500

(a) Kormannia, Monostroma, Ulva and Ulvaria.

x At least one site pair p-value &lt; 0.100 in 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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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	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	Power	---		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	Power	---		P-value	0.500
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	5	0.00	0.00	5	0.00	0.00	-	o	1.000		
453C/453	2	4	0.63	0.63	6	2.08	1.00	-	-	0.376	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		
601C/601	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		
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			0.12	0.12		0.42	0.20		-			0.12	0.12		0.00	0.00		+			0.00	0.00		0.00	0.00		o			
Fisher's	Power		0.006		Power-50%	---		P-value	0.543	Power	---		Power-50%	---		P-value	0.550	Power	---		Power-50%	---		P-value	0.732	Power	---		P-value	0.732
Stouffer's	Power		0.002		Power-50%	---		P-value	0.319	Power	---		Power-50%	---		P-value	0.325	Power	---		Power-50%	---		P-value	0.500	Power	---		P-value	0.500
4825C/1424	3	3	0.00	0.00	5	0.50	0.50	-	-	0.374	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		
453C/453	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		
601C/601	3	5	40.00	19.17	3	23.33	23.33	-	-	0.571	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		
598C/598	3	6	15.83	13.49	6	0.00	0.00	-	+	0.240	6	0.00	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	2.50	2.50	1	0.00	--	-	+	---	5	2.50	2.50	1	0.00	--	-	+	---	5	0.00	0.00	1	0.00	--	-	+	---		
Habitat Means			11.66	7.04		4.76	5.95		+			0.50	0.50		0.10	0.13		-			0.00	0.00		0.00	0.00		o			
Fisher's	Power		0.014		Power-50%	0.015		P-value	0.381	Power	---		Power-50%	---		P-value	0.483 y	Power	---		Power-50%	---		P-value	0.698	Power	---		P-value	0.698
Stouffer's	Power		0.010		Power-50%	0.027		P-value	0.173	Power	---		Power-50%	---		P-value	0.450	Power	---		Power-50%	---		P-value	0.500	Power	---		P-value	0.500

(a) Genera not separated.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.452, Page 2, December 15, 1994

Table C-5.452. Algal Percent Cover. Chlorophyta. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed 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	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	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			o			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	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	
453C/453	2	4	0.00		0.00	6	2.08	1.00	-	-	0.081	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	
601C/601	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	
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		0.42			-			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		0.287	Power		---		Power-50%		---	P-value		0.732	Power		---		Power-50%		---	P-value		0.732
Stouffer's	Power		0.001		Power-50%		---	P-value		0.177	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value		0.500
4825C/1424	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	
453C/453	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	
601C/601	3	5	40.00		19.17	3	23.33	23.33	-	-	0.571	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	
598C/598	3	6	15.83		13.49	6	0.00	0.00	-	-	0.240	6	0.00	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			11.16		6.54		4.66			+			0.00		0.00		0.00		o			0.00		0.00		0.00		0.00		o
Fisher's	Power		0.024		Power-50%		0.017	P-value		0.300	Power		---		Power-50%		---	P-value		0.698	Power		---		Power-50%		---	P-value		0.698
Stouffer's	Power		0.032		Power-50%		0.023	P-value		0.143	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.

Tolson C-5452, Page 3, December 15, 1934

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	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	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	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		0.500	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	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										
601C/601	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										
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	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	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		0.500	Power	---	Power-50%	---	P-value
4825C/1424	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										
453C/453	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										
601C/601	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										
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	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	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		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 5.452, Page 4, December 15, 1994

Table C-5.453. Algal Percent Cover. Phaeophyta. Prince William Sound, Sheltered Rocky, August 1993. Overstory removed 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 <i>Fucus gardneri</i> (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	55.42	16.92	5	4.50	4.50	-	+	0.025	6	55.42	16.92	5	4.50	4.50	-	+	0.025	6	55.42	16.92	5	4.50	4.50	-	+	0.025
453C/453	1	6	35.00	14.99	6	35.00	15.29	-	+	0.814	6	35.00	14.99	6	35.00	15.29	-	+	0.814	6	35.00	14.99	6	35.00	15.29	-	+	0.814
601C/601	1	6	21.67	15.67	6	0.00	0.00	-	+	0.163	6	21.67	15.67	6	0.00	0.00	-	+	0.163	6	21.67	15.67	6	0.00	0.00	-	+	0.163
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	19.58	16.26	5	41.00	21.22	-	-	0.453	6	19.58	16.26	5	41.00	21.22	-	-	0.453	6	19.58	16.26	5	41.00	21.22	-	-	0.453
Habitat Means			26.34	12.78		16.10	8.20		+			26.34	12.78		16.10	8.20		-			26.34	12.78		16.10	8.20		-	
Fisher's	Power		---		Power-50%		---		P-value	0.064	Power	---		Power-50%		---		P-value	0.064	Power	---		Power-50%		---		P-value	0.064
Stouffer's	Power		0.120		Power-50%		0.363		P-value	0.273	Power	0.120		Power-50%		0.375		P-value	0.273	Power	0.112		Power-50%		0.349		P-value	0.273
4825C/1424	2	5	66.50	16.33	5	55.50	22.75	-	+	0.600	5	66.50	16.33	5	55.50	22.75	-	+	0.600	5	66.50	16.33	5	55.50	22.75	-	+	0.600
453C/453	2	4	76.25	8.20	6	11.67	4.36	-	+	0.001	4	75.63	8.06	6	4.58	2.45	-	+	0.000	4	75.63	8.06	6	4.58	2.45	-	+	0.000
601C/601	2	6	20.83	5.61	5	39.00	23.90	-	-	0.742	6	20.83	5.61	5	39.00	23.90	-	-	0.742	6	20.83	5.61	5	39.00	23.90	-	-	0.742
598C/598	2	6	5.42	4.93	6	20.83	16.15	-	-	0.366	6	5.42	4.93	6	20.83	16.15	-	-	0.366	6	5.42	4.93	6	20.83	16.15	-	-	0.366
1522C/1522	2	6	47.08	16.26	4	67.50	20.34	-	-	0.405	6	47.08	16.26	4	67.50	20.34	-	-	0.405	6	47.08	16.26	4	67.50	20.34	-	-	0.405
Habitat Means			43.22	10.26		38.90	17.52		-			43.08	10.24		37.48	17.14		-			43.08	10.24		37.48	17.14		-	
Fisher's	Power		0.075		Power-50%		0.848		P-value	0.505 <sub>xy</sub>	Power	0.073		Power-50%		0.886		P-value	0.505 <sub>xy</sub>	Power	0.070		Power-50%		0.870		P-value	0.505 <sub>xy</sub>
Stouffer's	Power		0.018		Power-50%		0.916		P-value	0.834	Power	0.012		Power-50%		0.908		P-value	0.882	Power	0.009		Power-50%		0.921		P-value	0.882
4825C/1424	3	3	65.00	22.91	5	71.50	15.58	-	-	0.774	3	65.00	22.91	5	71.50	15.58	-	-	0.774	3	65.00	22.91	5	71.50	15.58	-	-	0.774
453C/453	3	4	62.50	22.66	4	3.13	3.13	-	+	0.031	4	61.25	23.73	4	3.13	3.13	-	+	0.062	4	61.25	23.73	4	3.13	3.13	-	+	0.062
601C/601	3	5	33.00	16.19	3	44.17	29.02	-	-	0.606	5	33.00	16.19	3	44.17	29.02	-	-	0.606	5	33.00	16.19	3	44.17	29.02	-	-	0.606
598C/598	3	6	41.67	14.98	6	52.92	18.53	-	-	0.582	6	41.67	14.98	6	52.92	18.53	-	-	0.582	6	41.67	14.98	6	52.92	18.53	-	-	0.582
1522C/1522	3	5	87.00	8.12	1	77.50	--	-	+	---	5	87.00	8.12	1	77.50	--	-	+	---	5	87.00	8.12	1	77.50	--	-	+	---
Habitat Means			57.84	16.98		49.84	16.55		-			57.60	17.18		49.84	16.55		-			57.60	17.18		49.84	16.55		-	
Fisher's	Power		0.016		Power-50%		0.644		P-value	0.560 <sub>xy</sub>	Power	0.018		Power-50%		0.551		P-value	0.556 <sub>xy</sub>	Power	0.017		Power-50%		0.557		P-value	0.556 <sub>xy</sub>
Stouffer's	Power		0.004		Power-50%		0.703		P-value	0.715	Power	0.006		Power-50%		0.634		P-value	0.660	Power	0.005		Power-50%		0.655		P-value	0.660

x At least one site pair p-value < 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.453. Page 1. December 15, 1994

Adult <i>Fucus gardneri</i> (P) (> 2cm)										Juvenile <i>Fucus gardneri</i> (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	55.42	16.92	5	3.50	3.50	-	+	0.021	6	0.00	0.00	5	1.00	1.00	-	-	0.374	6	0.00	0.00	5	0.50	0.50	-	-	0.374	
453C/453	1	6	35.00	14.99	6	35.00	15.29	-	+	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	
601C/601	1	6	21.67	15.67	6	0.00	0.00	-	+	0.163	6	0.00	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	19.58	16.26	5	41.00	21.22	-	-	0.453	6	0.00	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			26.34	12.78		15.90	8.00		+			0.00	0.00		0.20	0.20		-			0.00	0.00		0.10	0.10		-		
Fisher's	Power		---		Power-50%		---		P-value	0.059	Power	---		Power-50%		---		P-value	0.542	Power	---		Power-50%		---		P-value	0.542	
Stouffer's	Power		0.116		Power-50%		0.352		P-value	0.270	Power	---		Power-50%		---		P-value	0.451	Power	---		Power-50%		---		P-value	0.451	
4825C/1424	2	5	65.50	17.16	5	55.50	22.75	-	+	0.634	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	
453C/453	2	4	75.63	8.06	6	3.75	2.39	-	+	0.000	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	
601C/601	2	6	20.42	5.79	5	39.00	23.90	-	-	0.728	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	
598C/598	2	6	5.00	5.00	6	20.83	16.15	-	-	0.321	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	
1522C/1522	2	6	46.25	16.71	4	67.50	20.34	-	-	0.377	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			42.56	10.56		37.32	17.12		-			0.52	0.52		0.16	0.16		+			0.00	0.00		0.00	0.00		o		
Fisher's	Power		0.060		Power-50%		0.971		P-value	0.460 <sub>xy</sub>	Power	---		Power-50%		---		P-value	0.173	Power	---		Power-50%		---		P-value	0.732	
Stouffer's	Power		0.006		Power-50%		0.971		P-value	0.864	Power	---		Power-50%		---		P-value	0.228	Power	---		Power-50%		---		P-value	0.500	
4825C/1424	3	3	65.00	22.91	5	71.50	15.58	-	-	0.774	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	
453C/453	3	4	61.25	23.73	4	2.50	2.50	-	+	0.059	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	
601C/601	3	5	32.50	16.28	3	44.17	29.02	-	-	0.597	5	0.50	0.50	3	0.00	0.00	-	+	0.374	5	0.50	0.50	3	0.00	0.00	-	+	0.374	
598C/598	3	6	41.67	14.98	6	52.92	18.53	-	-	0.582	6	0.00	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	87.00	8.12	1	77.50	--	-	+	---	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---	
Habitat Means			57.50	17.20		49.72	16.40		-			0.10	0.10		0.12	0.15		-			0.10	0.10		0.00	0.00		+		
Fisher's	Power		0.019		Power-50%		0.584		P-value	0.553 <sub>xy</sub>	Power	---		Power-50%		---		P-value	0.583 <sub>y</sub>	Power	---		Power-50%		---		P-value	0.483	
Stouffer's	Power		0.006		Power-50%		0.660		P-value	0.664	Power	---		Power-50%		---		P-value	0.601	Power	---		Power-50%		---		P-value	0.417	

(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-5.453. Page 2. December 15, 1994

Table C-5.453. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed May 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	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			o			0.00	0.00		0.00			o			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	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
453C/453	2	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.42	0.42	-	o	0.363	4	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	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
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			o			0.00	0.00		0.08	0.08	-				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	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
453C/453	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
601C/601	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
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			o			0.00	0.00		0.00			o			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

(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-5.453. Page 3. December 15, 1994

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	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			o			0.00	0.00		0.00			o			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	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
453C/453	2	4	0.00	0.00	6	0.42	0.42	-	o	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
601C/601	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
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			-			0.00	0.00		0.00			o			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	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
453C/453	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
601C/601	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
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			o			0.00	0.00		0.00			o			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.

(b) Elachista, Petocarpus 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-5.453. Page 4. December 15, 1994

Table C-5.453. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed May 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	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	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				
453C/453	2	4	0.63	0.63	6	6.67	4.27	-	-	0.391	4	0.63	0.63	6	6.67	4.27	-	-	0.391	4	0.00	0.00	6	0.00	0.00	-	o	1.000				
601C/601	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				
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			0.12	0.12		1.34	0.86		-			0.12	0.12		1.34	0.86		-			0.00	0.00		0.00	0.00		0.00	o				
Fisher's	Power		0.002		Power-50%		---	P-value	0.550		Power	0.001		Power-50%		---	P-value	0.550			Power	---		Power-50%		---	P-value	0.732				
Stouffer's	Power		0.002		Power-50%		---	P-value	0.325		Power	0.001		Power-50%		---	P-value	0.325			Power	---		Power-50%		---	P-value	0.500				
4825C/1424	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				
453C/453	3	4	1.25	1.25	4	0.00	0.00	-	-	0.391	4	1.25	1.25	4	0.00	0.00	-	-	0.391	4	0.00	0.00	4	0.00	0.00	-	o	1.000				
601C/601	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				
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			0.26	0.26		0.00	0.00		+			0.26	0.26		0.00	0.00		+			0.00	0.00		0.00	0.00		o					
Fisher's	Power		---		Power-50%		---	P-value	0.492		Power	---		Power-50%		---	P-value	0.492			Power	---		Power-50%		---	P-value	0.698				
Stouffer's	Power		---		Power-50%		---	P-value	0.321		Power	---		Power-50%		---	P-value	0.321			Power	---		Power-50%		---	P-value	0.500				

(a) Genera not separated.

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

Table C-5.453. Page 5. December 15, 1994

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	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	0.732		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	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000													
453C/453	2	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													
601C/601	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													
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	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													
453C/453	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													
601C/601	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													
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.

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

Table C-5.453. Page 6. December 15, 1994

Table C-5.454. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed 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	0.00	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	-	6	9.17	9.17	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	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	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	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			1.84	1.84		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	2	5	0.00	0.00	5	1.00	1.00	-	-	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	
453C/453	2	4	11.25	8.26	6	10.00	9.01	-	+	0.826	4	5.00	5.00	6	0.00	0.00	-	+	0.391	4	0.00	0.00	6	0.00	0.00	-	o	1.000	
601C/601	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	
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			2.26	1.66		2.20	2.00		-			1.00	1.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o		
Fisher's	Power		0.000		Power-50%		0.010	P-value	0.573	Power	---		Power-50%		---	P-value	0.550	Power	---		Power-50%		---	P-value	0.732				
Stouffer's	Power		0.000		Power-50%		0.001	P-value	0.497	Power	---		Power-50%		---	P-value	0.325	Power	---		Power-50%		---	P-value	0.500				
4825C/1424	3	3	26.67	26.67	5	16.50	6.25	-	-	0.985	3	0.00	0.00	5	4.00	1.27	-	-	0.021	3	0.00	0.00	5	0.00	0.00	-	o	1.000	
453C/453	3	4	3.13	3.13	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	
601C/601	3	5	3.50	2.45	3	0.00	0.00	-	-	0.193	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	
598C/598	3	6	0.83	0.83	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	
1522C/1522	3	5	0.00	0.00	1	7.50	--	-	-	---	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---	
Habitat Means			6.82	6.62		4.80	1.57		+			0.08	0.08		0.80	0.33		-			0.00	0.00		0.00	0.00		o		
Fisher's	Power		0.212		Power-50%		0.170	P-value	0.120	Power	---		Power-50%		---	P-value	0.140	Power	---		Power-50%		---	P-value	0.698				
Stouffer's	Power		---		Power-50%		---	P-value	0.067	Power	---		Power-50%		---	P-value	0.653	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-5.454. Page 1. December 15, 1994

Site Pair	Gigartinaeae Group (P) (a)										Palmaria spp. (A)								Phycodrya riggii (A)									
	Mvd	N	C	SE	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	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			o			0.00	0.00		0.00			o			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	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
453C/453	2	4	5.00	5.00	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
601C/601	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
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			1.00	1.00		0.00			-			0.00	0.00		0.00			o			0.00	0.00		0.00			o	
Fisher's	Power		---		Power-50%		---	P-value	0.550	Power	---		Power-50%		---	P-value	0.732	Power	---		Power-50%		---	P-value	0.732			
Stouffer's	Power		---		Power-50%		---	P-value	0.325	Power	---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value	0.500			
4825C/1424	3	3	0.00	0.00	5	2.00	1.22	-	-	0.178	3	0.00	0.00	5	2.00	1.46	-	-	0.198	3	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	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
601C/601	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
598C/598	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
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			0.08	0.08		0.40	0.30		-			0.00	0.00		0.40	0.38		-			0.00	0.00		0.00			o	
Fisher's	Power		0.000		Power-50%		---	P-value	0.432	Power	---		Power-50%		---	P-value	0.361	Power	---		Power-50%		---	P-value	0.698			
Stouffer's	Power		0.000		Power-50%		---	P-value	0.702	Power	---		Power-50%		---	P-value	0.428	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-5.454. Page 2. December 15, 1994



Table C-5.454. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed 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	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	0.00	6	0.00	0.00	-	o	1.000	6	0.00	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	0.00	6	0.00	0.00	-	o	1.000	6	0.00	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	0.00	6	0.00	0.00	-	o	1.000	6	0.00	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	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		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	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			
453C/453	2	4	0.00	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			
601C/601	2	6	0.00	0.00	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			
598C/598	2	6	0.00	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	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	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		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	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			
453C/453	3	4	0.00	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			
601C/601	3	5	0.00	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			
598C/598	3	6	0.00	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	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	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		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 5.454, Page 3, December 15, 1994

Morphological Group: Coarse Filamentous Reds										Articulate Coralline Algae (A)								Cryptosiphonia woodii (A)									
Site Pair		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
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	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	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
453C/453	2 4	5.63	3.29	6	10.00	9.01	-	o	0.910	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
601C/601	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
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		1.12	0.66		2.00	1.80		-			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%	0.059	P-value	0.714	Power	---		Power-50%		---	P-value	0.732	Power	---		Power-50%		---	P-value	0.732				
Stouffer's	Power	0.000		Power-50%	0.021	P-value	0.476	Power	---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value	0.500				
4825C/1424	3 3	26.67	26.67	5	4.50	1.84	-	+	0.503	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
453C/453	3 4	3.13	3.13	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
601C/601	3 5	3.50	2.45	3	0.00	0.00	-	+	0.193	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
598C/598	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
1522C/1522	3 5	0.00	0.00	1	7.50	--	-	-	---	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---
Habitat Means		6.74	6.54		2.40	0.45		+			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	0.079	Power	---		Power-50%		---	P-value	0.698	Power	---		Power-50%		---	P-value	0.698			
Stouffer's	Power	---		Power-50%		---	P-value	0.056	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 5.454, Page 4, December 15, 1994

Table C-5.454. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed 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	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	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	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
453C/453	2	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	5.63	3.29	6	10.00	9.01	-	o	0.910
601C/601	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
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			1.12	0.66		2.00	1.80		-	
Fisher's	Power		---		Power-50%		---	P-value	0.732	Power		---		Power-50%		---	P-value	0.732	Power		0.000		Power-50%		0.063	P-value	0.714	
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power		---		Power-50%		---	P-value	0.500	Power		0.000		Power-50%		0.026	P-value	0.476	
4825C/1424	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	26.67	26.67	5	4.00	1.70	-	+	0.480
453C/453	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	3.13	3.13	4	0.00	0.00	-	+	0.391
601C/601	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	3.50	2.45	3	0.00	0.00	-	+	0.193
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	0.42	0.42	6	0.00	0.00	-	+	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	7.50	--	-	+	---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			6.74	6.54		2.30	0.42		+	
Fisher's	Power		---		Power-50%		---	P-value	0.698	Power		---		Power-50%		---	P-value	0.698	Power		---		Power-50%		---	P-value	0.076	
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power		---		Power-50%		---	P-value	0.500	Power		---		Power-50%		---	P-value	0.055	

(a) Genera not separated.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.454. Page 5. December 15, 1994

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	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	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			o			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	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				
453C/453	2	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				
601C/601	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				
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			o			0.00	0.00		0.00			o			0.12	0.12		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	0.550					
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power		---		Power-50%		---	P-value	0.500	Power		---		Power-50%		---	P-value	0.325					
4825C/1424	3	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.50	0.50	-	o	0.374	3	0.00	0.00	5	3.50	2.92	-	+	0.226				
453C/453	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	-	+	0.000				
601C/601	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	-	+	0.000				
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	-	+	0.000				
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	--	-	+	---				
Habitat Means			0.00	0.00		0.00			o			0.00	0.00		0.10	0.13		-			0.00	0.00		0.70	0.72		-					
Fisher's	Power		---		Power-50%		---	P-value	0.698	Power		---		Power-50%		---	P-value	0.483	Power		0.000		Power-50%		---	P-value	0.385					
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power		---		Power-50%		---	P-value	0.450	Power		0.000		Power-50%		---	P-value	0.432					

(b) Genera not separated.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.454. Page 6. December 15, 1994

Table C-5.454. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed 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	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	9.17	9.17	6	0.00	0.00	-	o	0.363				
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	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			o			0.00	0.00		0.00			o			1.84	1.84		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	0.536		
Stouffer's	Power	---			Power-50%	---			P-value	0.500	Power	---			Power-50%	---			P-value	0.500	Power	---			Power-50%	---			P-value	0.315		
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	5	0.00	0.00	5	0.00	0.00	-	o	1.000				
453C/453	2	4	0.63	0.63	6	0.00	0.00	-	o	0.391	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	3.00	3.00	6	0.00	0.00	-	o	1.000				
601C/601	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				
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			0.12	0.12		0.00			+			0.00	0.00		0.00			o			0.00	0.00		0.00	0.00			o				
Fisher's	Power	---			Power-50%	---			P-value	0.550	Power	---			Power-50%	---			P-value	0.732	Power	---			Power-50%	---			P-value	0.732		
Stouffer's	Power	---			Power-50%	---			P-value	0.325	Power	---			Power-50%	---			P-value	0.500	Power	---			Power-50%	---			P-value	0.500		
4825C/1424	3	3	0.00	0.00	5	3.50	2.92	-	-	0.226	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	4.50	3.91	-	-	0.240				
453C/453	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				
601C/601	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				
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		0.70			-			0.00	0.00		0.00			o			0.00	0.00		0.90	0.97			-				
Fisher's	Power	---	0.000		Power-50%	---			P-value	0.385	Power	---			Power-50%	---			P-value	0.698	Power	---	0.000		Power-50%	---			P-value	0.395		
Stouffer's	Power	---	0.000		Power-50%	---			P-value	0.432	Power	---			Power-50%	---			P-value	0.500	Power	---	0.000		Power-50%	---			P-value	0.434		

\* At least one site pair p-value < 0.100 in 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 (F)										
Site Pair	Mvd	N	C	SE	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	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			o			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	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	5	0.00	0.00	-	o	1.000				
453C/453	2	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				
601C/601	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				
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			o			0.00	0.00		0.20			-			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	0.451	Power	---			Power-50%	---			P-value	0.500		
4825C/1424	3	3	0.00	0.00	5	4.50	3.91	-	-	0.240	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				
453C/453	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				
601C/601	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				
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		0.90			-			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	0.395	Power	---			Power-50%	---			P-value	0.698	Power	---			Power-50%	---			P-value	0.698		
Stouffer's	Power	---	0.000		Power-50%	---			P-value	0.434	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-5.454, Page 7, December 15, 1994

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	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			o			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	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	2.00	1.00	-	-	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000		
453C/453	2	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		
601C/601	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		
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			o			0.00	0.00		0.20			-			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	0.451	Power	---			Power-50%	---			P-value	0.500
4825C/1424	3	3	0.00	0.00	5	4.50	3.91	-	-	0.240	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		
453C/453	3	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00		4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000		
601C/601	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		
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		0.90		0.97	-			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	0.395	Power	---			Power-50%	---			P-value	0.698	Power	---			Power-50%	---			P-value	0.698
Stouffer's	Power	0.000			Power-50%	---			P-value	0.434	Power	---			Power-50%	---			P-value	0.500	Power	---			Power-50%	---			P-value	0.500

Table C-5.454. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed May 1990. (Continued.)

Hildenbrandia sp. (P)											Petrocelis (P)																					
ite Pair	Mvd	N	C	SE	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	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	0.732		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	5	0.00	0.00	5	1.00	1.00	-	-	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000													
453C/453	2	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													
601C/601	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													
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		0.20	0.20		-			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%		---							
Stouffer's	Power		---		Power-50%		---	P-value	0.451		Power	---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---							
4825C/1424	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													
453C/453	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													
601C/601	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													
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%		---							
Stouffer's	Power		---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---							

x At least one site pair p-value < 0.00 in opposite direction of overall tests.  
y Direction of difference between habitat means is different than direction of overall tests.  
z Only one site pair.

Table C 5.454, Page 9, December 15, 1994

Table C-5.455. Algal Percent Cover. Invertebrates. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed 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	5	33.50	18.40	-	-	0.112	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			
453C/453	1	6		0.00	0.00	6	6.67	3.96	-	-	0.065	6	0.00	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		8.33	2.47	6	3.75	2.02	-	+	0.102	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	1	6		0.83	0.83	6	2.92	1.87	-	-	0.418	6	0.42	0.42	6	0.00	0.00	-	-	0.363	6	0.00	0.00	6	0.42	0.42	-	-	0.363			
1522C/1522	1	6		17.92	12.59	5	9.50	5.83	-	+	0.836	6	0.00	0.00	5	0.50	0.50	-	-	0.374	6	0.00	0.00	5	2.50	2.50	-	-	0.374			
Habitat Means				5.40	3.18		11.28	6.42		-			0.08	0.08		0.20	0.20		-			0.00	0.00		0.74	0.74		-				
Fisher's	Power			---		Power-50%		---	P-value		0.076	Power	---		Power-50%		---	P-value		0.451	Power	---		Power-50%		---	P-value		0.227			
Stouffer's	Power			---		Power-50%		---	P-value		0.080	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.136			
4825C/1424	2	5		1.50	1.50	5	9.00	9.00	-	-	0.576	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	4		1.25	0.72	6	6.67	4.73	-	-	0.375	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	2.50	1.58	-	-	0.175			
601C/601	2	6		9.58	8.62	5	2.50	2.50	-	+	0.548	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	2.50	1.58	5	3.50	2.18	-	-	0.775			
598C/598	2	6		9.58	4.81	6	2.50	1.58	-	+	0.162	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	5.83	2.30	6	4.58	2.27	-	-	0.652			
1522C/1522	2	6		19.17	10.30	4	5.00	3.54	-	+	0.257	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	7.50	3.16	4	1.25	1.25	-	-	0.173			
Habitat Means				8.24	5.18		5.14	4.26		+			0.00	0.00		0.00	0.00		o			3.16	1.42		2.38	1.48		-				
Fisher's	Power			0.139		Power-50%		0.426	P-value		0.234	Power	---		Power-50%		---	P-value		0.732	Power	0.083		Power-50%		0.314	P-value		0.469			
Stouffer's	Power			0.110		Power-50%		0.593	P-value		0.181	Power	---		Power-50%		---	P-value		0.500	Power	0.025		Power-50%		0.459	P-value		0.561			
4825C/1424	3	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	3	0.00	0.00	5	0.00	0.00	-	o	1.000			
453C/453	3	4		5.00	5.00	4	0.63	0.63	-	+	0.557	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			
601C/601	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	1.67	1.67	-	-	0.423			
598C/598	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	5.00	3.16	6	3.33	1.39	-	+	0.940			
1522C/1522	3	5		1.50	1.50	1	0.00	---	-	+	---	5	0.00	0.00	1	0.00	---	-	o	---	5	3.00	3.00	1	0.00	---	-	+	---			
Habitat Means				1.64	1.64		0.12	0.15		+			0.00	0.00		0.00	0.00		o			1.60	1.24		1.00	0.78		-				
Fisher's	Power			---		Power-50%		---	P-value		0.133	Power	---		Power-50%		---	P-value		0.698	Power	0.006		Power-50%		0.004	P-value		0.520			
Stouffer's	Power			---		Power-50%		---	P-value		0.086	Power	---		Power-50%		---	P-value		0.500	Power	0.005		Power-50%		0.000	P-value		0.448			

At least one site pair p-value < 0.100 in opposite direction of overall tests.

y Direction of change 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	1.00	-	-	0.186	6	0.00	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	0.42	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	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		0.30	0.20		-			0.00	0.00		0.08	0.08		-			0.00	0.00		0.00	0.00		o				
Fisher's	Power			0.002		Power-50%		---	P-value		0.415	Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.732			
Stouffer's	Power			0.000		Power-50%		---	P-value		0.427	Power	---		Power-50%		---	P-value		0.240	Power	---		Power-50%		---	P-value		0.500			
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	5	0.00	0.00	5	0.00	0.00	-	o	1.000			
453C/453	2	4		0.00	0.00	6	0.42	0.42	-	-	0.363	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			
601C/601	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			
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	0.42	0.42	4	0.00	0.00	-	+	0.363	6	0.00	0.00	4	0.00	0.00	-	o	1.000			
Habitat Means				0.00	0.00		0.08	0.08		-			0.08	0.08		0.00	0.00		+			0.12	0.12		0.00	0.00		-				
Fisher's	Power			---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.550			
Stouffer's	Power			---		Power-50%		---	P-value		0.315	Power	---		Power-50%		---	P-value		0.425	Power	---		Power-50%		---	P-value		0.325			
4825C/1424	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			
453C/453	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			
601C/601	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			
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	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		-			0.00	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		0.235	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.

be

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	1.00	-	-	0.186	6	0.00	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	0.42	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	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		0.30	0.20		-			0.00	0.00		0.08	0.08		-			0.00	0.00		0.00	0.00		o					
Fisher's	Power		0.002		Power-50%		---	P-value		0.415	Power		---		Power-50%		---	P-value		0.536	Power		---		Power-50%		---	P-value		0.732		
Stouffer's	Power		0.000		Power-50%		---	P-value		0.427	Power		---		Power-50%		---	P-value		0.240	Power		---		Power-50%		---	P-value		0.500		
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	5	0.00	0.00	5	0.00	0.00	-	o	1.000				
453C/453	2	4	0.00	0.00	6	0.42	0.42	-	-	0.363	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				
601C/601	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				
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	0.42	0.42	4	0.00	0.00	-	+	0.363	6	0.00	0.00	4	0.00	0.00	-	o	1.000				
Habitat Means			0.00	0.00		0.08	0.08		-			0.08	0.08		0.00	0.00		+			0.12	0.12		0.00	0.00		-					
Fisher's	Power		---		Power-50%		---	P-value		0.536	Power		---		Power-50%		---	P-value		0.536	Power		---		Power-50%		---	P-value		0.550		
Stouffer's	Power		---		Power-50%		---	P-value		0.315	Power		---		Power-50%		---	P-value		0.425	Power		---		Power-50%		---	P-value		0.325		
4825C/1424	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				
453C/453	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				
601C/601	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				
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	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		-			0.00	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		0.235	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value		0.500		

Table C-5.456. Algal Percent Cover. Substrates. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed 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	44.58	16.92	5	59.50	21.13	-	-	0.589	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
453C/453	1	6	55.83	18.58	6	58.33	15.22	-	-	0.762	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
601C/601	1	6	70.00	14.79	6	95.42	1.87	-	-	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	0.00	-	o	1.000
598C/598	1	6	98.75	0.85	6	96.25	2.56	-	+	0.576	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
1522C/1522	1	6	62.50	16.81	5	46.50	17.51	-	+	0.528	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
Habitat Means			66.34	13.60		71.20	11.66		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o		
Fisher's	Power		0.056		Power-50%	0.889	P-value			0.294	Power	---		Power-50%	---	P-value			0.732	Power	---		Power-50%	---	P-value			0.732	
Stouffer's	Power		0.039		Power-50%	0.921	P-value			0.475	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	
4825C/1424	2	5	32.00	16.65	5	34.50	19.05	-	-	0.848	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
453C/453	2	4	10.00	3.23	6	66.67	12.29	-	-	0.007	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
601C/601	2	6	67.08	9.90	5	52.00	21.01	-	+	0.546	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	3.00	3.00	3.00	-	-	0.374
598C/598	2	6	69.17	10.20	6	72.08	14.94	-	-	0.914	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	10.00	10.00	6	0.00	0.00	0.00	-	+	0.363
1522C/1522	2	6	25.83	8.77	4	24.37	15.69	-	+	0.943	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000
Habitat Means			40.82	9.76		49.94	16.60		-			0.00	0.00		0.00	0.00		o			2.00	2.00		0.60	0.60		+		
Fisher's	Power		---		Power-50%	---	P-value			0.089	Power	---		Power-50%	---	P-value			0.732	Power	---		Power-50%	---	P-value			0.630	
Stouffer's	Power		---		Power-50%	---	P-value			0.084	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.309	
4825C/1424	3	3	7.50	5.20	5	11.50	10.89	-	-	0.934	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
453C/453	3	4	29.37	19.19	4	96.25	2.98	-	-	0.012	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000
601C/601	3	5	22.50	10.34	3	28.33	28.33	-	-	0.928	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	2.50	2.50	2.50	-	-	0.423
598C/598	3	6	24.58	15.51	6	28.33	15.41	-	-	0.949	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	11.67	11.67	6	15.00	15.00	15.00	-	-	0.875
1522C/1522	3	5	6.00	3.76	1	15.00	---	-	-	---	5	0.00	0.00	1	0.00	---	-	o	---	5	0.00	0.00	1	0.00	---	-	o	---	
Habitat Means			18.00	10.80		35.88	14.40		-			0.00	0.00		0.00	0.00		o			2.34	2.34		3.50	4.38		-		
Fisher's	Power		---		Power-50%	---	P-value			0.063	Power	---		Power-50%	---	P-value			0.698	Power	---		Power-50%	---	P-value			0.480	
Stouffer's	Power		---		Power-50%	---	P-value			0.073	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.377	

x At least one site pair p-value < 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.456, Page 1, December 15, 1993

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	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	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	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	0.00	-	o	1.000
1522C/1522	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	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	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	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	0.00	-	o	1.000
453C/453	2	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	0.00	-	o	1.000
601C/601	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	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	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	0.00	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.38	0.38		-			0.00	0.00		0.00	0.00		o		
Fisher's	Power		---		Power-50%	---	P-value			0.732	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	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	0.00	-	o	1.000
453C/453	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	0.00	-	o	1.000
601C/601	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	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	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-5.456. Page 1. December 15, 1994

Site Pair	Mvd	N	Shell Fragments								Water								Zostera/Phyllospadix									
			C	SE	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	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	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
453C/453	2	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
601C/601	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
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	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.38	0.38		-			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%	---	P-value			0.732	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	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
453C/453	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
601C/601	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
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-5.456. Page 2. December 15, 1994

Table C-5.456. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound, Sheltered Rocky, August 1993. Overstory removed May 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	44.58	16.92	5	59.50	21.13	-	-	0.589										
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	55.83	18.58	6	58.33	15.22	-	-	0.762										
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	70.00	14.79	6	95.42	1.87	-	-	0.090										
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	98.75	0.85	6	96.25	2.56	-	+	0.576										
1522C/1522	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	62.50	16.81	5	46.50	17.51	-	+	0.528										
Habitat Means			0.00	0.00		0.00	0.00		o			66.34	13.60		71.20	11.66		-											
Fisher's	Power		---		Power-50%		---	P-value		0.732	Power	0.047		Power-50%		0.895	P-value		0.294	Power	---		Power-50%		---	P-value			
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	0.035		Power-50%		0.931	P-value		0.475	Power	---		Power-50%		---	P-value			
4825C/1424	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	32.00	16.65	5	34.50	19.05	-	-	0.848										
453C/453	2	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	10.00	3.23	6	66.67	12.29	-	-	0.007										
601C/601	2	6	0.00	0.00	5	3.00	3.00	-	-	0.374	6	67.08	9.90	5	55.00	21.68	-	+	0.625										
598C/598	2	6	10.00	10.00	6	0.00	0.00	-	+	0.363	6	79.17	5.23	6	72.08	14.94	-	+	0.734										
1522C/1522	2	6	0.00	0.00	4	1.88	1.88	-	-	0.391	6	25.83	8.77	4	26.25	15.63	-	-	0.978										
Habitat Means			2.00	2.00		0.98	0.98		-			42.82	8.76		50.92	16.72		-											
Fisher's	Power		---		Power-50%		---	P-value		0.459	Power	---		Power-50%		---	P-value		0.099	Power	---		Power-50%		---	P-value			
Stouffer's	Power		---		Power-50%		---	P-value		0.626	Power	0.040		Power-50%		0.890	P-value		0.141	Power	---		Power-50%		---	P-value			
4825C/1424	3	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	7.50	5.20	5	11.50	10.89	-	-	0.934										
453C/453	3	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	29.37	19.19	4	96.25	2.98	-	-	0.012										
601C/601	3	5	0.00	0.00	3	2.50	2.50	-	-	0.423	5	22.50	10.34	3	30.83	30.83	-	-	0.985										
598C/598	3	6	11.67	11.67	6	15.00	15.00	-	-	0.875	6	36.25	16.54	6	43.33	17.10	-	-	0.799										
1522C/1522	3	5	0.00	0.00	1	0.00	--	-	o	---	5	6.00	3.76	1	15.00	--	-	-	---										
Habitat Means			2.34	2.34		3.50	4.38		-			20.34	11.00		39.38	15.45		-											
Fisher's	Power		---		Power-50%		---	P-value		0.480	Power	---		Power-50%		---	P-value		0.058	Power	---		Power-50%		---	P-value			
Stouffer's	Power		---		Power-50%		---	P-value		0.177	Power	---		Power-50%		---	P-value		0.057	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-5.457. Algal Percent Cover, Totals and Seasonal Groups, Prince William Sound, Sheltered Rock, August 1993. Overstory removed 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	0.06	0.06	-	-	0.374	6	0.83	0.17	5	0.60	0.40	-	+	0.579	6	37.50	17.08	5	4.50	3.39	-	+	0.097				
453C/453	1	6	0.04	0.04	5	0.00	0.00	-	+	0.363	6	0.83	0.31	5	0.80	0.20	-	+	0.933	6	50.00	19.99	5	25.50	15.78	-	+	0.416				
601C/601	1	6	0.01	0.01	6	0.00	0.00	-	+	0.363	6	0.67	0.33	6	0.17	0.17	-	+	0.209	6	19.17	13.88	6	16.67	16.67	-	+	0.876				
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	0.42	0.42	-	-	0.363				
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.67	0.21	6	0.67	0.21	-	o	1.000	6	50.83	18.20	6	47.50	17.22	-	-	0.925				
Habitat Means			0.01	0.01	0.01	0.01	0.01	+			0.60	0.20	0.48	0.23	-						31.50	13.84	18.92	10.70								
Fisher's			Power	---	Power-50%	---	P-value	0.440	y	Power	0.187	Power-50%	0.887	P-value	0.414	Power	0.191	Power-50%	0.281	P-value	0.236											
Stouffer's			Power	---	Power-50%	---	P-value	0.285		Power	0.126	Power-50%	0.932	P-value	0.616	Power	0.173	Power-50%	0.421	P-value	0.495											
4825C/1424	2	6	0.03	0.03	5	0.07	0.06	-	-	0.531	6	1.00	0.26	5	1.20	0.37	-	-	0.662	6	52.08	19.56	5	45.00	18.69	-	+	0.720				
453C/453	2	5	0.00	0.00	5	0.06	0.06	-	-	0.374	5	0.80	0.20	5	0.60	0.40	-	+	0.667	5	53.00	16.83	5	6.00	4.00	-	+	0.036				
601C/601	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.50	0.22	5	0.20	0.20	-	+	0.353	6	18.33	12.77	5	16.50	16.50	-	+	0.800				
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.67	0.21	6	0.50	0.22	-	+	0.600	6	8.33	5.46	6	29.17	18.09	-	-	0.407				
1522C/1522	2	6	0.05	0.05	1	0.00	-	-	+	---	6	1.00	0.26	1	0.00	-	-	+	---	6	60.83	18.76	-	0.00	-	-	+	---				
Habitat Means			0.02	0.02	0.03	0.03	0.03	-			0.79	0.23	0.50	0.30	+						38.50	14.70	19.34	14.33	+							
Fisher's			Power	0.003	Power-50%	---	P-value	0.361	y	Power	0.247	Power-50%	0.937	P-value	0.352	Power	0.122	Power-50%	0.337	P-value	0.136											
Stouffer's			Power	0.003	Power-50%	---	P-value	0.284		Power	0.211	Power-50%	0.959	P-value	0.210	Power	0.099	Power-50%	0.450	P-value	0.278											
4825C/1424	3	3	0.18	0.07	4	0.24	0.08	-	-	0.634	3	2.00	0.00	4	2.50	0.50	-	-	0.391	3	66.67	27.32	4	71.25	22.19	-	-	0.999				
453C/453	3	3	0.15	0.07	4	0.10	0.10	-	+	0.726	3	2.00	0.58	4	1.00	0.71	-	+	0.348	3	90.00	8.78	4	31.87	22.39	-	-	0.089				
601C/601	3	5	0.06	0.06	3	0.07	0.07	-	-	0.866	5	1.00	0.32	3	1.33	0.33	-	-	0.519	5	50.00	16.97	3	79.77	20.83	-	-	0.281				
598C/598	3	4	0.15	0.09	5	0.01	0.01	-	+	0.242	4	1.75	0.75	5	1.00	0.32	-	-	0.351	4	36.88	17.84	5	73.50	19.23	-	-	0.232				
1522C/1522	3	6	0.02	0.02	1	0.64	-	-	---	---	6	1.17	0.7	1	5.00	-	-	---	---	6	55.00	13.57	-	47.50	-	-	+	---				
Habitat Means			0.11	0.06	0.21	0.07	0.07	-			1.58	0.36	2.17	0.46	+						59.72	16.90	60.68	21.15	+							
Fisher's			Power	0.116	Power-50%	0.568	P-value	0.419	y	Power	0.175	Power-50%	0.957	P-value	0.432	y	Power	0.085	Power-50%	0.649	P-value	0.286										
Stouffer's			Power	0.113	Power-50%	0.549	P-value	0.156		Power	0.106	Power-50%	0.967	P-value	0.165		Power	0.045	Power-50%	0.711	P-value	0.389										

(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 test.  
y Direction of difference between habitat means is different than direction of overall test.  
z Only one site pair.

Total Invertebrates											Benthos											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	1.25	0.85	5	35.50	17.02	-	-	0.084	6	61.25	17.40	5	60.00	17.08	-	+	0.905	6	37.50	17.08	5	4.50	3.39	-	+	0.097				
453C/453	1	6	0.00	0.00	5	1.50	1.00	-	-	0.186	6	50.00	19.99	5	73.00	15.60	-	-	0.446	6	50.00	19.99	5	25.50	15.78	-	+	0.416				
601C/601	1	6	7.50	4.43	6	2.08	0.77	-	+	0.381	6	73.33	13.18	6	81.25	16.26	-	-	0.747	6	19.17	13.88	6	16.67	16.67	-	+	0.876				
598C/598	1	6	5.00	3.16	6	9.58	5.38	-	+	0.399	6	95.00	3.16	6	90.00	5.77	-	+	0.391	6	0.00	0.00	6	0.42	0.42	-	-	0.363				
1522C/1522	1	6	5.42	3.44	6	5.00	4.03	-	+	0.987	6	43.75	15.26	6	47.50	17.89	-	-	0.767	6	50.83	18.20	6	47.50	17.22	-	+	0.925				
Habitat Means			3.84	2.38	10.74	5.64	5.64	+			64.68	13.82	61.10	14.65	-						31.50	13.84	18.92	10.70	+							
Fisher's			Power	---	Power-50%	---	P-value	0.097	Power	0.164	Power-50%	0.765	P-value	0.578	Power	0.196	Power-50%	0.284	P-value	0.236												
Stouffer's			Power	---	Power-50%	---	P-value	0.082	Power	0.153	Power-50%	0.812	P-value	0.557	Power	0.182	Power-50%	0.425	P-value	0.495												
4825C/1424	2	6	9.17	9.17	5	19.00	8.46	-	-	0.251	6	38.75	17.15	5	36.00	14.11	-	+	0.986	6	50.00	18.96	5	45.00	18.69	-	+	0.766				
453C/453	2	5	12.50	8.44	5	37.50	14.90	-	-	0.139	5	34.50	12.28	5	56.50	14.50	-	-	0.291	5	53.00	16.83	5	4.00	2.45	-	+	0.027				
601C/601	2	6	15.83	12.99	5	5.50	1.22	-	+	0.832	6	65.83	15.94	5	78.00	16.42	-	-	0.780	6	17.92	12.88	5	16.50	16.50	-	+	0.872				
598C/598	2	6	16.25	10.36	6	15.83	6.08	-	+	0.897	6	75.42	11.72	6	55.00	13.62	-	+	0.212	6	8.33	5.46	6	29.17	18.09	-	-	0.407				
1522C/1522	2	6	23.75	13.98	-	20.00	-	-	---	---	6	15.42	5.72	1	80.00	-	-	---	---	6	52.50	17.77	1	0.00	-	-	+	---				
Habitat Means			15.52	11.00	19.56	7.67	7.67	-			45.98	12.56	61.10	14.65	+						36.34	14.40	18.94	13.95	+							
Fisher's			Power	0.242	Power-50%	0.317	P-value	0.163	Power	0.036	Power-50%	0.768	P-value	0.515	y	Power	0.135	Power-50%	0.514	P-value	0.124											
Stouffer's			Power	0.260	Power-50%	0.450	P-value	0.208	Power	0.033	Power-50%	0.827	P-value	0.362		Power	0.095	Power-50%	0.648	P-value	0.266											
4825C/1424	3	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	13.33	7.95	4	28.75	22.19	-	-	0.566	3	42.50	22.22	4	65.63	21.05	-	-	0.552				
453C/453	3	3	0.00	0.00	4	11.25	6.81	-	-	0.116	3	10.00	8.78	4	56.88	22.60	-	-	0.152	3	70.83	27.93	4	26.88	22.90	-	-	0.209				
601C/601	3	5	5.50	4.29	3	0.00	0.00	-	+	0.146	5	44.50	13.82	3	0.00	0.00	-	+	0.023	5	50.00	16.97	3	76.67	23.33	-	-	0.317				
598C/598	3	4	3.75	3.75	5	3.00	2.42	-	+	0.970	4	40.63	22.14	5	23.50	16.82	-	+	0.472	4	32.50	14.51	5	73.50	19.23	-	-	0.178				
1522C/1522	3	6	2.08	1.36	1	0.00	-	-	+	---	6	34.58	14.10	1	52.50	-	-	---	---	6	55.00	13.57	1	35.00	-	-	+	---				
Habitat Means			2.28	1.90	2.86	2.30	2.30	+			28.60	13.36	32.34	15.40	+						50.16	19.04	55.54	21.62	+							
Fisher's			Power	0.008	Power-50%	0.008	P-value	0.416	y	Power	0.128	Power-50%	0.295	P-value	0.126	y	Power	0.075	Power-50%	0.554	P-value	0.184										
Stouffer's			Power	0.001	Power-50%	0.011	P-value	0.684		Power	0.076	Power-50%	0.387	P-value	0.402		Power	0.054	Power-50%	0.630	P-value	0.239										

(a) Modified Shannon Index.

(b) Taxa richness calculations are explained in the methods.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C 5.457, Page 1, December 15, 1994

Total Invertebrates											Bank										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	1.25	0.85	5	35.50	17.02	-	-	0.084	6	61.25	17.40	5	60.00	17.08	-	+	0.905	6	37.50	17.08	5	4.50	3.39	-	+	0.097		
453C/453	1	6	0.00	0.00	5	1.50	1.00	-	-	0.186	6	50.00	19.99	5	73.00	15.60	-	-	0.446	6	50.00	19.99	5	25.50	15.78	-	-	0.416		
601C/601	1	6	7.50	4.43	6	2.08	0.77	-	+	0.381	6	73.33	13.18	6	81.25	16.26	-	-	0.747	6	19.17	13.88	6	16.67	16.67	-	-	0.876		
598C/598	1	6	5.00	3.16	6	9.58	5.38	-	-	0.399	6	95.00	3.16	6	90.00	5.77	-	+	0.391	6	0.00	0.00	6	0.42	0.42	-	+	0.363		
1522C/1522	1	6	5.42	3.44	6	5.00	4.03	-	+	0.987	6	43.75	15.26	6	47.50	17.89	-	-	0.767	6	50.83	18.20	6	47.50	17.22	-	+	0.925		
Habitat Means			3.84	2.38		10.74	5.64		-			64.68	13.82		70.36	14.54		-			31.50	13.84		18.92	10.70		+			
Fisher's	Power		---		Power-50%		---	P-value	0.097	Power	0.164	Power-50%	0.765	P-value	0.578	Power	0.196	Power-50%	0.284	P-value	0.236									
Stouffer's	Power		---		Power-50%		---	P-value	0.082	Power	0.153	Power-50%	0.812	P-value	0.557	Power	0.182	Power-50%	0.425	P-value	0.495									
4825C/1424	2	6	9.17	9.17	5	19.00	8.46	-	-	0.251	6	38.75	17.15	5	36.00	14.11	-	+	0.986	6	50.00	18.96	5	45.00	18.69	-	+	0.766		
453C/453	2	5	12.50	8.44	5	37.50	14.90	-	-	0.139	5	34.50	12.28	5	56.50	14.50	-	+	0.291	5	53.00	16.83	5	4.00	2.45	-	+	0.027		
601C/601	2	6	15.83	12.99	5	5.50	7.22	-	+	0.832	6	65.83	15.94	5	78.00	16.42	-	-	0.780	6	17.92	12.88	5	16.50	16.50	-	-	0.872		
598C/598	2	6	16.25	10.36	6	15.83	6.08	-	-	0.897	6	75.42	11.72	6	55.00	13.62	-	+	0.212	6	8.33	5.46	6	29.17	18.09	-	-	0.407		
1522C/1522	2	6	23.75	13.98	-	20.00	-	-	---	---	6	15.42	5.72	1	80.00	-	-	---	---	6	52.50	17.77	1	0.00	-	-	+	---		
Habitat Means			15.52	11.00		19.56	7.67		-			45.98	12.56		61.10	14.65		+			36.34	14.40		18.94	13.95		+			
Fisher's	Power		0.242		Power-50%	0.317	P-value	0.163	Power	0.036	Power-50%	0.768	P-value	0.515	y	Power	0.135	Power-50%	0.514	P-value	0.124									
Stouffer's	Power		0.260		Power-50%	0.450	P-value	0.208	Power	0.033	Power-50%	0.827	P-value	0.362		Power	0.095	Power-50%	0.648	P-value	0.266									
4825C/1424	3	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	13.33	7.95	4	28.75	22.19	-	-	0.566	3	42.50	22.22	4	65.63	21.05	-	-	0.552		
453C/453	3	3	0.00	0.00	4	11.25	6.81	-	-	0.116	3	10.00	8.78	4	56.88	22.60	-	-	0.152	3	70.83	27.93	4	26.88	22.90	-	-	0.209		
601C/601	3	5	5.50	4.29	3	0.00	0.00	-	+	0.146	5	44.50	13.82	3	0.00	0.00	-	+	0.023	5	50.00	16.97	3	76.67	23.33	-	-	0.317		
598C/598	3	4	3.75	3.75	5	3.00	2.42	-	+	0.970	4	40.63	22.14	5	23.50	16.82	-	+	0.472	4	32.50	14.51	5	73.50	19.23	-	-	0.178		
1522C/1522	3	6	2.08	1.36	1	0.00	-	-	---	---	6	34.58	14.10	1	52.50	-	-	---	---	6	55.00	13.57	1	35.00	-	-	+	---		
Habitat Means			2.28	1.90		2.86	2.30		+			28.60	13.36		32.34	15.40		+			50.16	19.04		55.54	21.62		-			
Fisher's	Power		0.008		Power-50%	0.008	P-value	0.416	y	Power	0.128	Power-50%	0.295	P-value	0.126	y	Power	0.075	Power-50%	0.554	P-value	0.184								
Stouffer's	Power		0.001		Power-50%	0.011	P-value	0.684		Power	0.076	Power-50%	0.387	P-value	0.402		Power	0.054	Power-50%	0.630	P-value	0.239								

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C 5.457, Page 2, December 15, 1994



Table C-5.457. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed July 1990. (Continued.)

Site Pair	Mvd	N	Annuals (A)							Ephemerals (AE)																			
			C	SE	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	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	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			o			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	2.08	2.08	5	0.00	0.00	-	+	0.363	6	2.08	2.08	5	0.00	0.00	-	+	0.363										
453C/453	2	5	0.00	0.00	5	2.00	2.00	-	-	0.374	5	0.00	0.00	5	2.00	2.00	-	-	0.374										
601C/601	2	6	0.42	0.42	5	0.00	0.00	-	+	0.363	6	0.42	0.42	5	0.00	0.00	-	+	0.363										
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	+	1.000	6	0.00	0.00	6	0.00	0.00	-	+	1.000										
1522C/1522	2	6	8.33	8.33	1	0.00	--	-	+	---	6	0.00	0.00	1	0.00	--	-	+	---										
Habitat Means			2.16	2.16		0.40	0.50		+			0.50	0.50		0.40	0.50		+											
Fisher's	Power		---		Power-50%	---	P-value	0.375			Power	---		Power-50%	---	P-value	0.375			Power	---		Power-50%	---	P-value				
Stouffer's	Power		---		Power-50%	---	P-value	0.555			Power	---		Power-50%	---	P-value	0.555			Power	---		Power-50%	---	P-value				
4825C/1424	3	3	24.17	21.67	4	5.63	2.77	-	-	0.392	3	24.17	21.67	4	0.00	0.00	-	-	0.253										
453C/453	3	3	19.17	19.17	4	5.00	5.00	-	-	0.563	3	0.00	0.00	4	4.37	4.37	-	-	0.391										
601C/601	3	5	0.00	0.00	3	2.50	2.50	-	-	0.423	5	0.00	0.00	3	2.50	2.50	-	-	0.423										
598C/598	3	4	4.38	3.59	5	0.00	0.00	-	-	0.235	4	4.38	3.59	5	0.00	0.00	-	-	0.235										
1522C/1522	3	6	0.00	0.00	1	12.50	--	-	-	---	6	0.00	0.00	1	0.00	--	-	-	---										
Habitat Means			9.56	8.90		5.12	2.57		+			5.72	5.06		1.38	1.72		+											
Fisher's	Power		0.057		Power-50%	0.091	P-value	0.229			Power	0.020		Power-50%	0.036	P-value	0.315			Power	---		Power-50%	---	P-value				
Stouffer's	Power		0.068		Power-50%	0.175	P-value	0.118			Power	0.007		Power-50%	0.041	P-value	0.327			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-5.458. Algal Percent Cover. Chlorophyta. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed 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	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	
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	Power	---		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	Power	---		0.500
4825C/1424	2	6	2.08	2.08	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	5	2.00	2.00	-	-	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	2	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	
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	+	1.000	6	0.00	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	8.33	8.33	1	0.00	---	-	+	---	6	0.00	0.00	1	0.00	---	-	o	---	6	0.00	0.00	1	0.00	---	-	o	---	
Habitat Means			2.16	2.16		0.40	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		0.375	Power	---		Power-50%	---	P-value		0.698	Power	---		Power-50%	---	P-value		0.698	Power	---		0.698
Stouffer's	Power		---		Power-50%	---	P-value		0.555	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.500	Power	---		0.500
4825C/1424	3	3	24.17	21.67	4	0.00	0.00	-	+	0.253	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	
453C/453	3	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	3	0.00	0.00	4	0.00	0.00	-	o	1.000	
601C/601	3	5	0.00	0.00	3	2.50	2.50	-	-	0.423	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	
598C/598	3	4	4.38	3.59	5	0.00	0.00	-	+	0.235	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	
1522C/1522	3	6	0.00	0.00	1	2.50	---	-	-	---	6	0.00	0.00	1	0.00	---	-	o	---	6	0.00	0.00	1	0.00	---	-	o	---	
Habitat Means			5.72	5.06		1.88	1.72		+			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%	0.041	P-value		0.315	Power	---		Power-50%	---	P-value		0.698	Power	---		Power-50%	---	P-value		0.698	Power	---		0.698
Stouffer's	Power		0.007		Power-50%	0.043	P-value		0.327	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.500	Power	---		0.500

(a) Kormannia, Monostroma, Ulva and Ulvaria.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.458. Page 1. December 15, 1994

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	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		
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	Power	---		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	Power	---		0.500	
4825C/1424	2	6	2.08	2.08	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	5	2.00	2.00	-	-	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	2	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		
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	8.33	8.33	1	0.00	--	-	-	---	6	8.33	8.33	1	0.00	--	-	+	---	6	0.00	0.00	1	0.00	--	-	o	---		
Habitat Means			2.16	2.16		0.40	0.50		-			1.66	1.66		0.00	0.00		o			0.00	0.00		0.00	0.00		o			
Fisher's	Power		---		Power-50%	---	P-value		0.375	Power	---		Power-50%	---	P-value		0.698	y		Power	---		Power-50%	---	P-value		0.698	Power	---	0.698
Stouffer's	Power		---		Power-50%	---	P-value		0.555	Power	---		Power-50%	---	P-value		0.500			Power	---		Power-50%	---	P-value		0.500	Power	---	0.500
4825C/1424	3	3	24.17	21.67	4	0.00	0.00	-	+	0.253	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		
453C/453	3	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	3	0.00	0.00	4	0.00	0.00	-	o	1.000		
601C/601	3	5	0.00	0.00	3	2.50	2.50	-	-	0.423	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		
598C/598	3	4	4.38	3.59	5	0.00	0.00	-	+	0.235	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		
1522C/1522	3	6	0.00	0.00	1	2.50	--	-	-	---	6	0.00	0.00	1	2.50	--	-	+	---	6	0.00	0.00	1	0.00	--	-	o	---		
Habitat Means			5.72	5.06		1.88	1.72		+			0.00	0.00		0.50	0.00		o			0.00	0.00		0.00	0.00		o			
Fisher's	Power		0.020		Power-50%	0.040	P-value		0.315	Power	---		Power-50%	---	P-value		0.698	y		Power	---		Power-50%	---	P-value		0.698	Power	---	0.698
Stouffer's	Power		0.006		Power-50%	0.048	P-value		0.327	Power	---		Power-50%	---	P-value		0.500			Power	---		Power-50%	---	P-value		0.500	Power	---	0.500

(a) Genera not separated.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.458. Page 2. December 15, 1994

Table C-5.458. Algal Percent Cover. Chlorophyta. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed July 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	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	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	
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	0.00	o			0.00	0.00	0.00	0.00	0.00	0.00	o			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	0.732			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	2.08	2.08	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	5	2.00	2.00	-	-	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	2	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	
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	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---	
Habitat Means			0.50	0.50	0.40	0.50	+				0.00	0.00	0.00	0.00	0.00	0.00	o			0.00	0.00	0.00	0.00	0.00	0.00	o			
Fisher's	Power		---		Power-50%	---	P-value	0.375			Power	---		Power-50%	---	P-value	0.698			Power	---		Power-50%	---	P-value	0.698			
Stouffer's	Power		---		Power-50%	---	P-value	0.555			Power	---		Power-50%	---	P-value	0.500			Power	---		Power-50%	---	P-value	0.500			
4825C/1424	3	3	24.17	21.67	4	0.00	0.00	-	+	0.253	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	
453C/453	3	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	3	0.00	0.00	4	0.00	0.00	-	o	1.000	
601C/601	3	5	0.00	0.00	3	2.50	2.50	-	-	0.423	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	
598C/598	3	4	4.38	3.59	5	0.00	0.00	-	+	0.235	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	
1522C/1522	3	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			5.72	5.06	1.38	1.72	+				0.00	0.00	0.00	0.00	0.00	0.00	o			0.00	0.00	0.00	0.00	0.00	0.00	o			
Fisher's	Power		0.021		Power-50%	0.038	P-value	0.315			Power	---		Power-50%	---	P-value	0.698			Power	---		Power-50%	---	P-value	0.698			
Stouffer's	Power		0.006		Power-50%	0.044	P-value	0.327			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-5.458. Page 3, December 15, 1994

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	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	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	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	0.00	o			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	0.732										
Stouffer's	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								
453C/453	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								
601C/601	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								
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	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---								
Habitat Means			0.00	0.00	0.00	0.00	0.00	o			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	0.698										
Stouffer's	Power		---		Power-50%	---	P-value	0.500			Power	---		Power-50%	---	P-value	0.500										
4825C/1424	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								
453C/453	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								
601C/601	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								
598C/598	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								
1522C/1522	3	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	0.00	o			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	0.698										
Stouffer's	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-5.458. Page 4, December 15, 1994

Table C-5.459. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed 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	37.50	17.08	5	2.50	1.58	-	+	0.076	6	37.50	17.08	5	2.50	1.58	-	+	0.076			6	37.50	17.08	5	2.50	1.58	-	+	0.076		
453C/453	1	6	49.17	20.28	5	19.50	16.48	-	+	0.296	6	49.17	20.28	5	19.50	16.48	-	+	0.296			6	49.17	20.28	5	19.50	16.48	-	+	0.296		
601C/601	1	6	14.17	13.67	6	16.67	16.67	-	+	0.890	6	14.17	13.67	6	16.67	16.67	-	+	0.890			6	14.17	13.67	6	16.67	16.67	-	+	0.890		
598C/598	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		
1522C/1522	1	6	50.83	18.20	6	47.50	17.22	-	+	0.925	6	50.83	18.20	6	47.50	17.22	-	+	0.925			6	50.83	18.20	6	47.50	17.22	-	+	0.925		
Habitat Means			30.34	13.86		17.32	10.48					30.34	13.86		17.32	10.48							30.34	13.86		17.32	10.48					
Fisher's	Power		0.141		Power-50%	0.203	P-value		0.198		Power	0.144		Power-50%	0.185	P-value		0.198			Power	0.136		Power-50%	0.205	P-value		0.198				
Stouffer's	Power		0.140		Power-50%	0.371	P-value		0.467		Power	0.145		Power-50%	0.349	P-value		0.467			Power	0.131		Power-50%	0.360	P-value		0.467				
4825C/1424	2	6	50.00	18.96	5	43.00	19.01	-	+	0.701	6	50.00	18.96	5	43.00	19.01	-	+	0.701			6	50.00	18.96	5	43.00	19.01	-	+	0.701		
453C/453	2	5	53.00	16.83	5	4.00	2.45	-	+	0.027	5	53.00	16.83	5	4.00	2.45	-	+	0.027			5	53.00	16.83	5	4.00	2.45	-	+	0.027		
601C/601	2	6	17.92	12.88	5	16.50	16.50	-	+	0.872	6	17.92	12.88	5	16.50	16.50	-	+	0.872			6	17.92	12.88	5	16.50	16.50	-	+	0.872		
598C/598	2	6	8.33	5.46	6	29.17	18.09	-	-	0.407	6	8.33	5.46	6	29.17	18.09	-	-	0.407			6	8.33	5.46	6	29.17	18.09	-	-	0.407		
1522C/1522	2	6	52.50	17.77	1	0.00	--	-	-	---	6	52.50	17.77	1	0.00	--	-	-	---			6	52.50	17.77	1	0.00	--	-	-	---		
Habitat Means			36.34	14.40		18.54	14.03		+			36.34	14.40		18.54	14.03		+				36.34	14.40		18.54	14.03		-				
Fisher's	Power		0.156		Power-50%	0.486	P-value		0.117		Power	0.148		Power-50%	0.488	P-value		0.117			Power	0.149		Power-50%	0.513	P-value		0.117				
Stouffer's	Power		0.122		Power-50%	0.612	P-value		0.262		Power	0.113		Power-50%	0.638	P-value		0.262			Power	0.112		Power-50%	0.626	P-value		0.262				
4825C/1424	3	3	42.50	22.22	4	56.25	19.49	-	-	0.730	3	42.50	22.22	4	56.25	19.49	-	-	0.730			3	42.50	22.22	4	56.25	19.49	-	-	0.730		
453C/453	3	3	65.83	25.91	4	24.37	23.55	-	+	0.228	3	65.83	25.91	4	23.75	23.75	-	+	0.213			3	65.83	25.91	4	23.75	23.75	-	+	0.213		
601C/601	3	5	43.00	12.73	3	76.67	23.33	-	-	0.136	5	43.00	12.73	3	76.67	23.33	-	-	0.136			5	43.00	12.73	3	76.67	23.33	-	-	0.136		
598C/598	3	4	28.13	11.34	5	73.00	19.26	-	-	0.143	4	28.13	11.34	5	73.00	19.26	-	-	0.143			4	28.13	11.34	5	73.00	19.26	-	-	0.143		
1522C/1522	3	6	53.75	12.92	1	10.00	--	-	-	---	6	53.75	12.92	1	10.00	--	-	-	---			6	53.75	12.92	1	10.00	--	-	-	---		
Habitat Means			46.64	17.00		48.08	21.42		-			46.64	17.00		47.96	21.48		-				46.64	17.00		47.96	21.48		-				
Fisher's	Power		0.049		Power-50%	0.620	P-value		0.115		Power	0.101		Power-50%	0.671	P-value		0.116			Power	0.092		Power-50%	0.678	P-value		0.116				
Stouffer's	Power		0.021		Power-50%	0.691	P-value		0.182		Power	0.079		Power-50%	0.726	P-value		0.187			Power	0.075		Power-50%	0.727	P-value		0.187				

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

Table C-5.459. Page 1. December 15, 1994

Adult <i>Fucus gardneri</i> (P) (> 2cm)											Juvenile <i>Fucus gardneri</i> (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	26.25	15.07	5	2.50	1.58	-	+	0.132	6	11.25	11.25	5	0.00	0.00	-	+	0.363	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000			
453C/453	1	6	49.17	20.28	5	19.50	16.48	-	+	0.296	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000			
601C/601	1	6	14.17	13.67	6	16.67	16.67	-	-	0.890	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000			
598C/598	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	0.00	-	o	1.000			
1522C/1522	1	6	50.83	18.20	6	47.50	17.22	-	-	0.925	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000			
Habitat Means			28.10	13.46		17.32	10.48		-			2.26	2.26		0.00	0.00		+			0.00	0.00		0.00	0.00	0.00		o				
Fisher's	Power		0.133		Power-50%	0.200	P-value		0.261	Power	---		Power-50%	---	P-value	0.536	Power	---		Power-50%	---	P-value	0.732									
Stouffer's	Power		0.128		Power-50%	0.353	P-value		0.482	Power	---		Power-50%	---	P-value	0.450	Power	---		Power-50%	---	P-value	0.500									
4825C/1424	2	6	45.83	18.42	5	43.00	19.01	-	+	0.782	6	4.17	4.17	5	0.00	0.00	-	+	0.363	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000			
453C/453	2	5	52.00	17.20	5	2.50	1.94	-	+	0.022	5	1.00	1.00	5	1.50	1.50	-	+	0.888	5	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000			
601C/601	2	6	17.92	12.88	5	16.50	16.50	-	+	0.872	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000			
598C/598	2	6	6.25	5.76	6	29.17	18.09	-	-	0.279	6	2.08	1.19	6	0.00	0.00	-	+	0.092	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000			
1522C/1522	2	6	52.50	17.77	1	0.00	--	-	+	---	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---	---			
Habitat Means			34.90	14.42		18.24	13.88		+			1.46	1.28		0.30	0.38		+			0.00	0.00		0.00	0.00	0.00		o				
Fisher's	Power		0.106		Power-50%	0.414	P-value		0.118	Power	0.108		Power-50%	0.106	P-value	0.146	Power	---		Power-50%	---	P-value	0.698									
Stouffer's	Power		0.073		Power-50%	0.601	P-value		0.324	Power	---		Power-50%	---	P-value	0.082	Power	---		Power-50%	---	P-value	0.500									
4825C/1424	3	3	42.50	22.22	4	56.25	19.49	-	-	0.730	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000			
453C/453	3	3	65.83	25.91	4	23.13	23.13	-	+	0.196	3	0.00	0.00	4	0.63	0.63	-	+	0.391	3	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000			
601C/601	3	5	42.50	12.55	3	76.67	23.33	-	-	0.132	5	0.50	0.50	3	0.00	0.00	-	+	0.374	5	0.00	0.00	3	0.00	0.00	0.00	-	o	1.000			
598C/598	3	4	28.13	11.34	5	73.00	19.26	-	-	0.143	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000			
1522C/1522	3	6	53.75	12.92	1	10.00	--	-	+	---	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---	---			
Habitat Means			46.54	16.98		47.82	21.30		-			0.10	0.10		0.12	0.15		+			0.00	0.00		0.00	0.00	0.00		o				
Fisher's	Power		0.107		Power-50%	0.639	P-value		0.114	Power	---		Power-50%	---	P-value	0.585	Power	---		Power-50%	---	P-value	0.698									
Stouffer's	Power		0.082		Power-50%	0.708	P-value		0.193	Power	---		Power-50%	---	P-value	0.601	Power	---		Power-50%	---	P-value	0.500									

Table C-5.459. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed 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	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	
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			o			0.00	0.00		0.00			o			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%	---		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%	---		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	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	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	
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	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			o			0.00	0.00		0.00			o			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%	---		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%	---		Power-50%	---		P-value	0.500	
4825C/1424	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	
453C/453	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	
601C/601	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	
598C/598	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	
1522C/1522	3	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			o			0.00	0.00		0.00			o			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%	---		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%	---		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.

Table C-5.459, Page 3, December 15, 1994

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	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	
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			o			0.00	0.00		0.00			o			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%	---		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%	---		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	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	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	
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	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			o			0.00	0.00		0.00			o			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%	---		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%	---		Power-50%	---		P-value	0.500	
4825C/1424	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	
453C/453	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	
601C/601	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	
598C/598	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	
1522C/1522	3	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			o			0.00	0.00		0.00			o			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%	---		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%	---		Power-50%	---		P-value	0.500	

(a) Genera not separated.

Table C-5.459. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed 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	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	
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			o			0.00	0.00		0.00			o			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	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	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	
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	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			o			0.00	0.00		0.00			o			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	
4825C/1424	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	
453C/453	3	3	0.00	0.00	4	0.63	0.63	-	o	0.391	3	0.00	0.00	4	0.63	0.63	-	o	0.391	3	0.00	0.00	4	0.00	0.00	-	o	1.000	
601C/601	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	
598C/598	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	
1522C/1522	3	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		0.12	0.15					0.00	0.00		0.12	0.15					0.00	0.00		0.00			o		
Fisher's	Power		---		Power-50%		---		P-value	0.492	Power	---		Power-50%		---		P-value	0.492	Power	---		Power-50%		---		P-value	0.698	
Stouffer's	Power		---		Power-50%		---		P-value	0.321	Power	---		Power-50%		---		P-value	0.321	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-5.469, Page 5, December 15, 199

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	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	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			o			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	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000										
601C/601	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										
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	1	0.00		-	o	---	6	0.00	0.00	1	0.00		-	o	---										
Habitat Means			0.00	0.00		0.00			o			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		
4825C/1424	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										
453C/453	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										
601C/601	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										
598C/598	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										
1522C/1522	3	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			o			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-5.459. Page 5. December 15, 1994

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	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	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	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000									
601C/601	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									
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	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	0.698	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	
4825C/1424	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									
453C/453	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									
601C/601	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									
598C/598	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									
1522C/1522	3	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	0.698	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-5.459. Page 6. December 15, 1994

Table C-5.460. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed 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. (AB)										
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					
4825C/1424	1	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	6	0.00	0.00	5	0.00	0.00	-	o	1.000				
453C/453	1	6	0.83	0.83	5	6.00	6.00	-	-	0.504	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000				
601C/601	1	6	5.00	4.52	6	0.00	0.00	-	+	0.248	6	0.00	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			1.16	1.06		1.60	1.60	-				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		0.518		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		0.417		Power	---		Power-50%	---	P-value		0.500		Power	---		Power-50%	---	P-value		0.500					
4825C/1424	2	6	0.00	0.00	5	2.00	1.46	-	-	0.198	6	0.00	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	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	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				
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	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		0.40	0.38	-				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		0.361		Power	---		Power-50%	---	P-value		0.698		Power	---		Power-50%	---	P-value		0.698					
Stouffer's	Power		0.000		Power-50%	---	P-value		0.428		Power	---		Power-50%	---	P-value		0.500		Power	---		Power-50%	---	P-value		0.500					
4825C/1424	3	3	0.00	0.00	4	15.00	9.46	-	-	0.076	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				
453C/453	3	3	24.17	17.22	4	3.13	3.13	-	+	0.218	3	20.00	18.76	4	0.00	0.00	-	+	0.328	3	0.00	0.00	4	0.00	0.00	-	+	0.328				
601C/601	3	5	7.00	7.00	3	0.00	0.00	-	+	0.374	5	0.00	0.00	3	0.00	0.00	-	+	0.374	5	0.00	0.00	3	0.00	0.00	-	+	0.374				
598C/598	3	4	4.38	3.59	5	0.50	0.50	-	+	0.272	4	0.63	0.63	5	0.00	0.00	-	+	0.391	4	0.00	0.00	5	0.00	0.00	-	+	0.391				
1522C/1522	3	6	1.25	1.25	1	35.00	--	-	+	---	6	0.00	0.00	1	7.50	--	-	+	---	6	0.00	0.00	1	0.00	--	-	+	---				
Habitat Means			7.38	5.82		10.72	3.28	+				4.12	3.88		1.50	0.00	+				0.00	0.00		0.00	0.00	+						
Fisher's	Power		0.067		Power-50%	0.087	P-value		0.158 <sub>xy</sub>		Power	0.002		Power-50%	0.003	P-value		0.290		Power	---		Power-50%	---	P-value		0.698					
Stouffer's	Power		---		Power-50%	---	P-value		0.067		Power	0.002		Power-50%	0.003	P-value		0.113		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.

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Gigartinaeae 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	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
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			o			0.00	0.00		0.00			o			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	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	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
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	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			o			0.00	0.00		0.00			o			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	
4825C/1424	3	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3		0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
453C/453	3	3	0.83	0.83	4	0.00	0.00	-	+	0.423	3	19.17	19.17	4	0.00	0.00	-	+	0.423	3	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	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
598C/598	3	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	4	0.00	0.00	5	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.00	0.00	1	7.50	--	-	-	---	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.28	0.28		1.50			+			3.84	3.84		0.00			+			0.00	0.00		0.00			o	
Fisher's	Power		---		Power-50%		---	P-value	0.330		Power	---		Power-50%		---	P-value	0.508		Power	---		Power-50%		---	P-value	0.698	
Stouffer's	Power		---		Power-50%		---	P-value	0.132		Power	---		Power-50%		---	P-value	0.332		Power	---		Power-50%		---	P-value	0.500	

Table C-5.460. Algal Percent Cover, Rhodophyta, Prince William Sound, Sheltered Rocky, August 1993. Overstory removed 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	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	
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			o			0.00	0.00		0.00			o			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	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	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	
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	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			o			0.00	0.00		0.00			o			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				
4825C/1424	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	
453C/453	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	
601C/601	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	
598C/598	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	
1522C/1522	3	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			o			0.00	0.00		0.00			o			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-5.460. Page 3. December 15, 1994

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	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				
601C/601	1	6	0.42	0.42	6	0.00	0.00	-	o	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	0.00	0.00	-	o	1.000	6	0.00	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		0.00	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		0.417	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.500							
4825C/1424	2	6	0.00	0.00	5	2.00	1.46	-	-	0.198	6	0.00	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	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	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				
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	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		0.40	0.38	-				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		0.361	Power	---		Power-50%	---	P-value		0.698	Power	---		Power-50%	---	P-value		0.698							
Stouffer's	Power		0.000		Power-50%	---	P-value		0.428	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.500							
4825C/1424	3	3	0.00	0.00	4	8.75	7.94	-	-	0.274	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				
453C/453	3	3	4.17	4.17	4	3.13	3.13	-	+	0.846	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				
601C/601	3	5	7.00	7.00	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				
598C/598	3	4	3.75	3.75	5	0.50	0.50	-	+	0.497	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				
1522C/1522	3	6	1.25	1.25	1	17.50	--	-	-	---	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---				
Habitat Means			3.26	3.26		5.98	2.88	+				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%	---	P-value		0.418	Power	---		Power-50%	---	P-value		0.698	Power	---		Power-50%	---	P-value		0.698							
Stouffer's	Power		0.001		Power-50%	---	P-value		0.242	Power	---		Power-50%	---	P-value		0.500	Power	---		Power-50%	---	P-value		0.500							



Table C-5.460. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed 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	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	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				
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	0.42	0.42	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	0.00	0.00	-	o	1.000	6	0.00	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	0.00		o			0.00	0.00	0.00	0.00	0.00		o			0.08	0.08	0.00	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	0.536							
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	6	0.00	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	1.46	-	-	0.198				
453C/453	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				
601C/601	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				
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	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	0.00		o			0.00	0.00	0.00	0.00	0.00		o			0.00	0.00	0.40	0.38			-					
Fisher's	Power		---		Power-50%		---	P-value	0.698	Power	---		Power-50%		---	P-value	0.698	Power	0.002		Power-50%		---	P-value	0.361							
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value	0.500	Power	0.000		Power-50%		---	P-value	0.428							
4825C/1424	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	8.75	7.94	-	-	0.274				
453C/453	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	4.17	4.17	4	3.13	3.13	-	-	0.846				
601C/601	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	7.00	7.00	3	0.00	0.00	-	-	0.374				
598C/598	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	3.75	3.75	5	0.50	0.50	-	-	0.497				
1522C/1522	3	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---	6	1.25	1.25	1	17.50	--	-	-	---				
Habitat Means			0.00	0.00	0.00	0.00	0.00		o			0.00	0.00	0.00	0.00	0.00		o			3.26	3.26	5.98	2.88			-					
Fisher's	Power		---		Power-50%		---	P-value	0.698	Power	---		Power-50%		---	P-value	0.698	Power	0.003		Power-50%		---	P-value	0.418 y							
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value	0.500	Power	0.003		Power-50%		---	P-value	0.242							

(a) Genera not separated.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.460. Page 5. December 15, 1994

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	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	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
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	0.00	-	o			0.00	0.00	0.00	0.00	0.00	-	o			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	0.732	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	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	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
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	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	0.00	-	o			0.00	0.00	0.00	0.00	0.00	-	o			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	0.698	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			
4825C/1424	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	1.88	1.88	-	-	0.391
453C/453	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
601C/601	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
598C/598	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
1522C/1522	3	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	10.00	--	-	-	---
Habitat Means			0.00	0.00	0.00	0.00	0.00	-	o			0.00	0.00	0.00	0.00	0.00	-	o			0.00	0.00	0.00	2.38	0.48	-	-	
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	0.452			

(b) Genera not separated.

x At least one site pair p-value &lt; 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.460. Page 6. December 15, 1994

Table C-5.460. Algal Percent Cover. Rhodophyta. Prince William Sound, Sheltered Rocky. August 1993. Overstory removed July 1990. (Continued.)

Halosaccion glandiforme (A)											Halosaccion spp. (A)								Morphological Group: Fine Filamentous Reds								
Site Pair	Mvd	-	-	-	-	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	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
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	0.00	-	o		0.00	0.00	0.00	0.00	0.00	0.00	-	o		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	0.732		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 6	0.00	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
601C/601	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
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	1	0.00	0.00	-	o	---	6	0.00	0.00	1	0.00	0.00	-	o	---	6	0.00	0.00	1	0.00	0.00	-	o	---
Habitat Means		0.00	0.00	0.00	0.00	0.00	-	o		0.00	0.00	0.00	0.00	0.00	0.00	-	o		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	0.698		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				
4825C/1424	3 3	0.00	0.00	4	1.88	1.88	-	-	0.391	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	3.75	2.98	-	-	0.227
453C/453	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
601C/601	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
598C/598	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
1522C/1522	3 5	0.00	0.00	1	10.00	0.00	-	-	---	6	0.00	0.00	1	0.00	0.00	-	o	---	6	0.00	0.00	1	0.00	0.00	-	o	---
Habitat Means		0.00	0.00	2.38	0.48	0.48	-	-		0.00	0.00	0.00	0.00	0.00	0.00	-	o		0.00	0.00	0.00	0.76	0.75	-	-		
Fisher's	Power	---		Power-50%	---	P-value	0.492		Power	---		Power-50%	---	P-value	0.492		Power	---		Power-50%	---	P-value	0.492				
Stouffer's	Power	---		Power-50%	---	P-value	0.452		Power	---		Power-50%	---	P-value	0.500		Power	---		Power-50%	---	P-value	0.432				

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

Table C-5.460. Page 7. December 15, 1994

Polysiphonia/Pterosiphonia (A) (a)											Morphological Group: Crustose Reds								Crustose Coralline Algae (F)									
Site Pair	Mvd	N	C	SE	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	2.00	2.00	-	-	0.374	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.83	0.83	5	6.00	6.00	-	-	0.504	6	0.00	0.00	5	0.00	0.00	-	o	1.000
601C/601	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
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	0.00	-	o			1.08	1.08	1.60	1.60	1.60	-	-			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	0.505	Power	---		Power-50%		---	P-value	0.732			
Stouffer's	Power		---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value	0.395	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	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	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
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	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	0.00	-	o			0.00	0.00	0.00	0.00	0.00	-	o			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	0.698	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			
4825C/1424	3	3	0.00	0.00	4	3.75	2.98	-	-	0.227	3	0.00	0.00	4	0.63	0.63	-	-	0.391	3	0.00	0.00	4	0.00	0.00	-	o	1.000
453C/453	3	3	0.00	0.00	4	0.00	0.00	-	-	0.227	3	0.00	0.00	4	0.00	0.00	-	-	0.227	3	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	5	0.00	0.00	3	0.00	0.00	-	-	0.227	5	0.00	0.00	3	0.00	0.00	-	-	0.227	5	0.00	0.00	3	0.00	0.00	-	o	1.000
598C/598	3	4	0.00	0.00	5	0.00	0.00	-	-	0.227	4	0.00	0.00	5	0.00	0.00	-	-	0.227	4	0.00	0.00	5	0.00	0.00	-	o	1.000
1522C/1522	3	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	0.76	0.75	0.75	-	-			0.00	0.00	0.12	0.15	0.15	-	-			0.00	0.00	0.00	0.00	0.00	-	o	
Fisher's	Power		0.001		Power-50%		---	P-value	0.385	Power	---		Power-50%		---	P-value	0.492	Power	---		Power-50%		---	P-value	0.698			
Stouffer's	Power		0.000		Power-50%		---	P-value	0.432	Power	---		Power-50%		---	P-value	0.452	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-5.462. Page 8. December 15, 1994

Table C-5.460. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed July 1990. (Continued.)

Site Pair	Mvd	N	Hildenbrandia sp. (P)								Petrocellia (P)																		
			C	SE	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	2.00	2.00	-	-	0.374	6	0.00	0.00	5	0.00	0.00	-	o	1.000										
453C/453	1	6	0.83	0.83	5	6.00	6.00	-	-	0.504	6	0.00	0.00	5	0.00	0.00	-	o	1.000										
601C/601	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										
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			1.08	1.08		1.60	1.60	-				0.00	0.00		0.00	0.00	-	o											
Fisher's	Power		---		Power-50%	---	P-value	0.505			Power	---		Power-50%	---	P-value	0.732			Power	---		Power-50%	---	P-value				
Stouffer's	Power		---		Power-50%	---	P-value	0.395			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	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000										
601C/601	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										
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	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	0.698			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				
4825C/1424	3	3	0.00	0.00	4	0.63	0.63	-	-	0.391	3	0.00	0.00	4	0.00	0.00	-	o	1.000										
453C/453	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										
601C/601	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										
598C/598	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										
1522C/1522	3	6	0.00	0.00	1	0.00	-	-	o	---	6	0.00	0.00	1	0.00	-	-	o	---										
Habitat Means			0.00	0.00		0.12	0.15	-				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				
Stouffer's	Power		-		Power-50%	---	P-value	0.452			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 5.460, Page 9, December 15, 1994

Table C-5.461. Algal Percent Cover. Invertebrates. Prince William Sound, Sheltered Rocky, August 1993. Overstory removed 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	N	C	SE	N	O	SE	CV	D	P	
4825C/1424	1	6	1.25	0.85	5	33.00	16.38	-	-	0.127	6	0.00	0.00	5	0.50	0.50	-	-	0.374	6	0.00	0.00	5	0.00	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	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	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
601C/601	1	6	6.67	3.69	6	1.25	0.56	-	+	0.218	6	0.83	0.83	6	0.00	0.00	-	-	0.363	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	4.58	3.19	6	8.75	5.62	-	-	0.643	6	0.00	0.00	6	0.83	0.53	-	-	0.175	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	5.42	3.44	6	5.00	4.03	-	-	0.987	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			3.60	2.24		9.62	5.32	-				0.16	0.16		0.36	0.30	-				0.00	0.00		0.00	0.00	0.00	-	o			0.00	0.00		0.00	0.00	-	o	
Fisher's	Power		0.101		Power-50%	0.545	P-value			0.376	Power	0.065		Power-50%	---	P-value			0.204	Power	---		Power-50%	---	P-value			0.732	Power	---		Power-50%	---	P-value			0.500	
Stouffer's	Power		0.052		Power-50%	0.726	P-value			0.389	Power	---		Power-50%	---	P-value			0.075	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	
4825C/1424	2	6	9.17	9.17	5	18.00	8.64	-	-	0.281	6	0.00	0.00	5	0.50	0.50	-	-	0.374	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
453C/453	2	5	12.50	8.44	5	34.50	13.12	-	-	0.148	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	3.00	2.00	-	-	0.187	5	0.00	0.00	5	3.00	2.00	-	-	0.187	
601C/601	2	6	15.00	13.10	5	1.50	1.00	-	+	0.452	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.83	0.53	5	3.50	0.61	-	-	0.009	6	0.83	0.53	5	3.50	0.61	-	-	0.009	
598C/598	2	6	11.67	8.75	6	10.42	6.00	-	+	0.909	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	4.58	1.98	6	5.00	2.74	-	-	0.995	6	4.58	1.98	6	5.00	2.74	-	-	0.995	
1522C/1522	2	6	11.25	6.97	1	20.00	---	-	-	---	6	0.00	0.00	1	0.00	---	-	o	---	6	12.50	7.58	1	0.00	---	-	-	---	6	12.50	7.58	1	0.00	---	-	-	---	
Habitat Means			11.94	9.30		16.88	7.18	-				0.00	0.00		0.18	0.23	-				3.58	2.02		2.30	1.32	-				3.58	2.02		2.30	1.32	-			
Fisher's	Power		0.149		Power-50%	0.319	P-value			0.210	Power	---		Power-50%	---	P-value			0.299	Power	---		Power-50%	---	P-value			0.019	Power	---		Power-50%	---	P-value			0.019	
Stouffer's	Power		0.126		Power-50%	0.511	P-value			0.252	Power	---		Power-50%	---	P-value			0.198	Power	---		Power-50%	---	P-value			0.090	Power	---		Power-50%	---	P-value			0.090	
4825C/1424	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	3	0.00	0.00	4	0.00	0.00	-	o	1.000	
453C/453	3	3	0.00	0.00	4	0.63	0.63	-	-	0.391	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	10.63	7.10	-	-	0.198	3	0.00	0.00	4	10.63	7.10	-	-	0.198	
601C/601	3	5	4.50	3.30	3	0.00	0.00	-	+	0.130	5	0.50	0.50	3	0.00	0.00	-	o	1.000	5	0.50	0.50	3	0.00	0.00	-	+	0.374	5	0.50	0.50	3	0.00	0.00	-	+	0.374	
598C/598	3	4	2.50	2.50	5	0.50	0.50	-	+	0.559	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	1.25	1.25	5	2.50	1.94	-	-	0.666	4	1.25	1.25	5	2.50	1.94	-	-	0.666	
1522C/1522	3	6	2.08	1.36	1	0.00	---	-	+	---	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			1.82	1.44		0.22	0.28	-				0.10	0.10		0.00	0.00	+				0.36	0.36		2.62	2.25	-				0.36	0.36		2.62	2.25	-			
Fisher's	Power		0.033		Power-50%	0.009	P-value			0.277	Power	---		Power-50%	---	P-value			0.483	Power	0.015		Power-50%	---	P-value			0.375	Power	0.015		Power-50%	---	P-value			0.375	
Stouffer's	Power		0.021		Power-50%	0.010	P-value			0.361	Power	---		Power-50%	---	P-value			0.417	Power	0.009		Power-50%	---	P-value			0.203	Power	0.009		Power-50%	---	P-value			0.203	

x At least one site pair p-value < 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table G-9.461, Page 1, December 15, 1994

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	N	C	SE	N	O	SE	CV	D	P	
4825C/1424	1	6	0.00	0.00	5	2.00	1.46	-	-	0.198	6	0.00	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	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	1.00	0.61	-	-	0.178	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	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	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	0.42	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	6	0.00	0.00	6	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.40	0.30	-				0.08	0.08		0.36	0.22	-				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%	---	P-value			0.426	Power	0.064		Power-50%	---	P-value			0.230	Power	---		Power-50%	---	P-value			0.732	Power	---		Power-50%	---	P-value			0.500	
Stouffer's	Power		0.000		Power-50%	---	P-value			0.429	Power	0.034		Power-50%	---	P-value			0.373	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	
4825C/1424	2	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	6	0.00	0.00	5	0.00	0.00	-	o	1.000	
453C/453	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	5	0.00	0.00	5	0.00	0.00	-	o	1.000	
601C/601	2	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	6	0.00	0.00	5	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	6	0.00	0.00	6	0.00	0.00	-	o	1.000	
1522C/1522	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	---	6	0.00	0.00	1	0.00	---	-	o	---	
Habitat Means			0.00	0.00		0.10	0.13	-				0.00	0.00		0.10	0.13	-				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			0.483	Power	---		Power-50%	---	P-value			0.698	Power	---		Power-50%	---	P-value			0.698	
Stouffer's	Power		---		Power-50%	---	P-value			0.450	Power	---		Power-50%	---	P-value			0.417	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	
4825C/1424	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	3	0.00	0.00	4	0.00	0.00	-	o	1.000	
453C/453	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	3	0.00	0.00	4	0.00	0.00	-	o	1.000	
601C/601	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3																								

x At least one site pair p-value < 0.100 in opposite direction of overall tests.

y Direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Table C-5.461. Page 1. December 15, 1994

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	2.00	1.46	-	-	0.198	6	0.00	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	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	1.00	0.61	-	-	0.178	6	0.00	0.00	5	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	0.42	0.42	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		0.40	0.30	-				0.08	0.08		0.36	0.22	-				0.00	0.00		0.00	0.00	-	o	
Fisher's	Power		0.000		Power-50%	---	P-value			0.426	Power	0.064		Power-50%	---	P-value			0.230	Power	---		Power-50%	---	P-value			0.732
Stouffer's	Power		0.000		Power-50%	---	P-value			0.429	Power	0.034		Power-50%	---	P-value			0.373	Power	---		Power-50%	---	P-value			0.500
4825C/1424	2	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	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
601C/601	2	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
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	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		0.10	0.13	-				0.00	0.00		0.10	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			0.450	Power	---		Power-50%	---	P-value			0.417	Power	---		Power-50%	---	P-value			0.500
4825C/1424	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
453C/453	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
601C/601	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
598C/598	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
1522C/1522	3	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			0.698	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

Table C-5.462. Algal Percent Cover. Substrates. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed 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	61.25	17.40	5	69.00	17.08	-	+	0.905	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
453C/451	1	6	50.00	19.99	5	71.00	15.60	-	-	0.446	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
601C/601	1	6	73.33	13.18	6	81.25	16.26	-	-	0.747	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
598C/598	1	6	95.00	3.16	6	96.00	5.77	-	+	0.391	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
1522C/1522	1	6	43.73	15.26	6	41.50	17.89	-	+	0.767	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
Habitat Means			64.63	13.82		70.36	14.54	-				0.00	0.00		0.00	0.00	-	o			0.00	0.00		0.00	0.00	0.00	-	o	
Fisher's	Power		0.165		Power-50%	0.733	P-value	0.578			Power	---		Power-50%	---		P-value	0.732		Power	---		Power-50%	---		P-value	0.732		
Stouffer's	Power		0.148		Power-50%	0.812	P-value	0.557			Power	---		Power-50%	---		P-value	0.500		Power	---		Power-50%	---		P-value	0.500		
4825C/1424	2	6	38.75	17.15	5	34.00	14.11	-	+	0.986	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
453C/451	2	5	34.50	12.28	5	54.50	14.50	-	-	0.291	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
601C/601	2	6	65.83	15.94	5	78.00	16.42	-	-	0.780	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	0.00	-	o	1.000
598C/598	2	6	75.42	11.72	6	51.00	13.62	-	-	0.212	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.00	-	o	1.000
1522C/1522	2	6	15.42	5.72	1	80.00	---	-	-	---	6	0.00	0.00	1	0.00	---	-	o	---	6	0.00	0.00	1	0.00	---	-	o	---	
Habitat Means			45.94	12.56		61.10	14.65	-				0.00	0.00		0.00	0.00	-	o			0.00	0.00		0.00	0.00	0.00	-	o	
Fisher's	Power		0.034		Power-50%	0.771	P-value	0.515			Power	---		Power-50%	---		P-value	0.698		Power	---		Power-50%	---		P-value	0.698		
Stouffer's	Power		0.029		Power-50%	0.832	P-value	0.362			Power	---		Power-50%	---		P-value	0.500		Power	---		Power-50%	---		P-value	0.500		
4825C/1424	3	3	13.31	7.95	4	28.75	22.19	-	-	0.566	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	20.00	20.00	4	0.00	0.00	0.00	-	+	0.423
453C/451	3	3	10.00	8.78	4	56.88	22.60	-	-	0.152	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	0.00	-	o	1.000
601C/601	3	5	44.50	13.82	3	0.00	0.00	-	-	0.023	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	20.83	20.83	0.00	-	-	0.423
598C/598	3	4	40.61	22.14	5	21.50	16.82	-	-	0.472	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	18.75	18.75	5	0.00	0.00	0.00	-	-	0.391
1522C/1522	3	6	34.50	14.10	1	54.50	---	-	-	---	6	0.00	0.00	1	0.00	---	-	o	---	6	4.58	4.58	1	0.00	---	-	-	-	---
Habitat Means			28.61	13.36		31.31	15.40	-				0.00	0.00		0.00	0.00	-	o			8.68	8.58		4.16	5.20	-			
Fisher's	Power		0.127		Power-50%	0.324	P-value	0.126			Power	---		Power-50%	---		P-value	0.698		Power	---		Power-50%	---		P-value	0.411		
Stouffer's	Power		0.078		Power-50%	0.397	P-value	0.402			Power	---		Power-50%	---		P-value	0.500		Power	---		Power-50%	---		P-value	0.273		

x At least one site pair p-value < 0.00 in opposite direction of overall tests.  
y Direction of difference between habitat means is different than direction of overall tests.  
z Only one site pair.

Table C-5.462. Page 1, December 15, 1994

Site Pair	Mvd	N	Shell Fragments							Water							Zostera/Phyllospadix											
			C	SE	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/451	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
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		o				0.00	0.00		0.00		o				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/451	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
601C/601	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
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	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		o				0.00	0.00		0.00		o				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			
4825C/1424	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
453C/451	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
601C/601	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
598C/598	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
1522C/1522	3	6	3.75	3.75	1	0.00	--	-	+	---	6	0.00	0.00	1	0.00	--	-	o	---	6	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.76	0.76		0.00		o				0.00	0.00		0.00		o				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 < 0.00 in opposite direction of overall tests.  
y Direction of difference between habitat means is different than direction of overall tests.  
z Only one site pair.

Table C-5.462. Page 2, December 15, 1994

Table C-5.462. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed July 1990. (Continued.)

Site Pair	Mvd	N	Sand and Mud								Total Substrate																	
			C	SE	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	61.25	17.40	5	60.00	17.08	-	+	0.905									
453C/453	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	50.00	19.99	5	73.00	15.60	-	-	0.446									
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	73.33	13.18	6	81.25	16.26	-	-	0.747									
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	95.00	3.16	6	90.00	5.77	-	+	0.391									
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	43.75	15.26	6	47.50	17.89	-	-	0.767									
Habitat Means			0.00	0.00		0.00	0.00		o			64.68	13.82		70.36	14.54		-										
Fisher's	Power		---		Power-50%		---	P-value	0.732		Power	0.158		Power-50%		0.768	P-value	0.578		Power	---		Power-50%		---	P-value		
Stouffer's	Power		---		Power-50%		---	P-value	0.500		Power	0.151		Power-50%		0.838	P-value	0.557		Power	---		Power-50%		---	P-value		
4825C/1424	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	38.75	17.15	5	36.00	14.11	-	+	0.986									
453C/453	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	34.50	12.28	5	56.50	14.50	-	-	0.291									
601C/601	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	65.83	15.94	5	78.00	16.42	-	-	0.780									
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	75.42	11.72	6	55.00	13.62	-	+	0.212									
1522C/1522	2	6	0.00	0.00	1	0.00		-	o	---	6	15.42	5.72	1	80.00		-	-	---									
Habitat Means			0.00	0.00		0.00	0.00		o			45.98	12.56		61.10	14.65		+										
Fisher's	Power		---		Power-50%		---	P-value	0.698		Power	0.036		Power-50%		0.748	P-value	0.515	y	Power	---		Power-50%		---	P-value		
Stouffer's	Power		---		Power-50%		---	P-value	0.500		Power	0.029		Power-50%		0.812	P-value	0.362		Power	---		Power-50%		---	P-value		
4825C/1424	3	3	20.00	20.00	4	0.00	0.00	-	+	0.423	3	33.33	27.32	4	28.75	22.19	-	+	0.999									
453C/453	3	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	10.00	8.78	4	56.88	22.60	-	-	0.152									
601C/601	3	5	0.00	0.00	3	20.83	20.83	-	-	0.423	5	44.50	13.82	3	20.83	20.83	-	+	0.309									
598C/598	3	4	18.75	18.75	5	0.00	0.00	-	+	0.391	4	59.38	18.27	5	23.50	16.82	-	+	0.143									
1522C/1522	3	6	8.33	8.33	1	0.00		-	+	---	6	42.92	13.35	1	52.50		-	-	---									
Habitat Means			9.42	9.42		4.16	5.20		-			38.02	16.32		36.50	20.60		+										
Fisher's	Power		---		Power-50%		---	P-value	0.411		Power	0.155		Power-50%		0.425	P-value	0.228		Power	---		Power-50%		---	P-value		
Stouffer's	Power		---		Power-50%		---	P-value	0.273		Power	0.094		Power-50%		0.512	P-value	0.266		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-5.462. Page 1. December 15, 1994

# **APPENDIX C-6** **COASTAL HABITAT ASSESSMENT INTERTIDAL ALGAE** **STANDARD OPERATING PROCEDURES**

<b>C-6.1</b>	<b>1989 Field SOP's</b> . . . . .	<b>1702</b>
	Overview	
<b>C-6.2</b>	<b>1990 Field SOP's</b> . . . . .	<b>1702</b>
	Overview	
	I. Algal percent cover estimates	
	II. Algal biomass quadrat sampling	
	III. Fucus density estimates	
	IV. Fucus germling recruitment and growth plates	
	V. Fucus egg viability	
	VI. Algal voucher collections	
	VII. Sediment hydrocarbon sampling	
	VIII. Temperature and Salinity measurements	
<b>C-6.3</b>	<b>1991 Field SOP's</b> . . . . .	<b>1715</b>
	overview	
	I. Algal percent cover estimates	
	II. Algal biomass quadrat sampling	
	III. Fucus density estimates	
	IV. Fucus germling recruitment and growth plates	
	V. Algal voucher collections	
	VI. Temperature and Salinity	
	VII. Intertidal algal records	
	VIII. Legal Obligations	
	IX. Chain of Custody	
<b>C-6.4</b>	<b>Laboratory SOP's</b> . . . . .	<b>1728</b>
	Overview	
	I. Macro algae sorting	
	II. Fucus attribute sorting	
	III. Fucus germling recruitment and growth plates	
	IV. Fucus egg viability enumeration	
	V. Identification of pressed algal vouchers	
	VI. Algal photo percent cover	

#### C-6.1. 1989 ALGAE FIELD SEASON

##### OVERVIEW:

In 1989 the algal field crew had the same standard operating procedures as the invertebrate crew. TN.0 transects were laid out and first, second, third, and fourth MVD quadrats were sampled. All samples were initially sent to IMS, Fairbanks for rough sorting. The algae was then sent to JCFOs for further sorting. Quadrat sampling was the only experiment carried out by the algal crew in 1989.

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#### C-6.2. 1990 ALGAE FIELD SEASON

##### OVERVIEW:

The following is a summary of the intertidal algae crew responsibilities for the 1990 field season. These duties will be carried out in all three areas, Prince William Sound (PWS), Cook Inlet-Kenai (CIK), and Kodiak-Alaska Peninsula (KAP), see figure 1 & 2.

- I. **Algal Percent Cover Estimates:** Visual percent algal cover estimates will be made on each transect (TN.3 and TN.6) and each quadrat (control and experimental) before it is sampled.
- II. **Algal Biomass Quadrat Sampling:** Algae samples will be collected, preserved, and shipped to the Juneau lab for sorting. Collections will be made with the same procedure as the invertebrate crew - two visits per site establishing transects TN.3 and TN.6 and sampling quadrats at the first, second, third, and fourth MVD.
- III. **Fucus Density Estimates:** Fucus densities will be measured by searching a 1 meter semi-circle to the left of each experimental quadrat for the nearest fertile Fucus plant. The distance to the nearest fertile plant will be recorded.
- IV. **Fucus Germling Recruitment and Growth Plates:** Recruitment and growth of Fucus plants will be measured by placing seeded and non-seeded plates in the middle intertidal of all sites. The plates will be removed after one year, preserved, and enumerated at the Juneau lab.
- V. **Fucus Egg Viability:** A fertile Fucus plant from the 1 meter semi-circle will be collected from selected habitats at each quadrat and brought back to the research vessel for egg release, germination, and preservation. Enumeration of embryo germination will be carried out at the Juneau lab.
- VI. **Algal Voucher Collections:** Algal voucher collections will be made at each site for clarification of species identifications. Preferably, these samples should contain fertile material and be preserved as dried pressings.
- VII. **Sediment Hydrocarbon Sampling:** Each site will have sediment hydrocarbon samples collected to monitor oiling levels at the time of quadrat sampling.
- VIII. **Temperature and Salinity:** Temperature and salinity will be taken off each site from 0-10 meter depth to establish site temperature and salinity profiles during each visit.



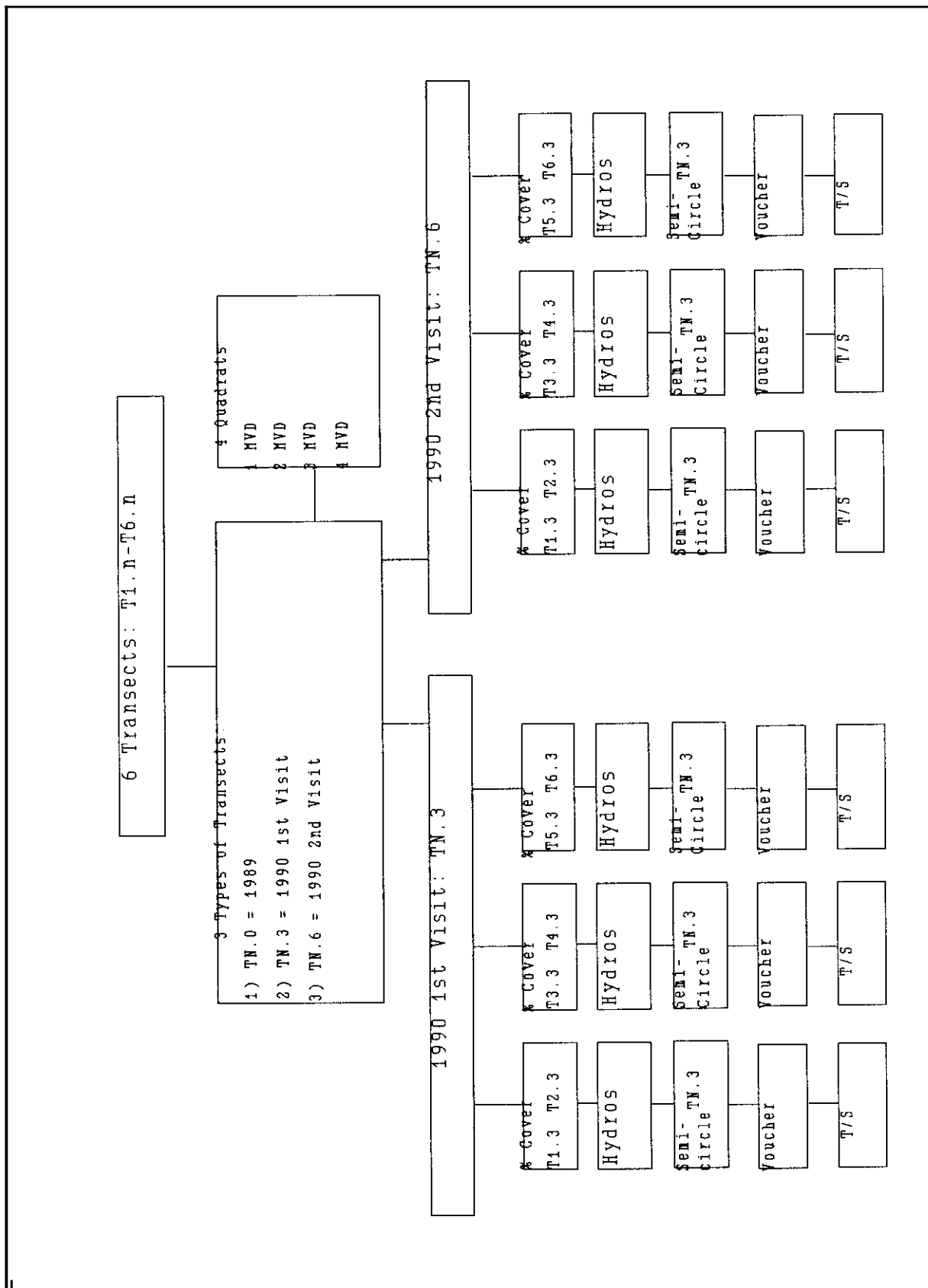


Figure 1: 1990 Site Flow Chart of Algal Field Crew Duties

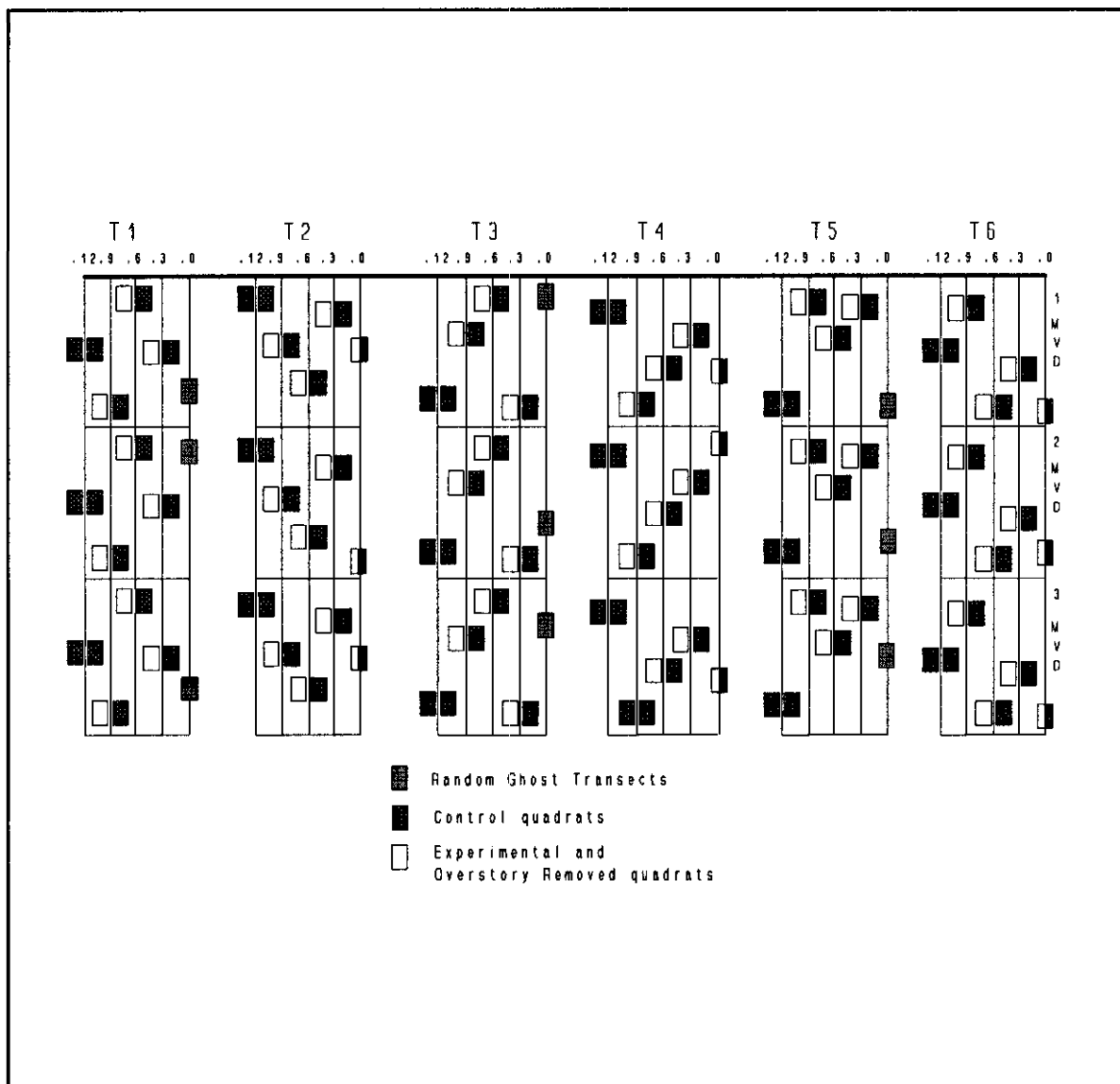


Figure 2: A Site Mapped Out

## 11. ALGAL PERCENT COVER ESTIMATES

- A. Algal percent cover is a visual estimate of the algae covering the surface of a quadrat before quadrat sampling takes place.
- B. Algal percent cover should be done in all areas, habitats, transects, and quadrats.
  - 1. Areas and habitats: PWS, **CIK**, KAP and sheltered rocky, exposed rocky, coarse textured, and estuarine.
- C. Algal percent cover estimates will first be done on control quadrats and then the experimental quadrats for each MVD.
- D. After the quadrat is in place, all drift algae should be removed from the quadrat.
  - 1. Estimates should be made at the angle of repose of the algae; that is, it does not matter for this estimate where the algal holdfasts are attached or whether one species obscures another.
- E. The percent cover is recorded on data sheets provided.
  - 1. The most commonly encountered algae are pre-written on the data sheets with additional blank spaces at the bottom for adding unlisted species.
  - 2. If the genera/species is not known for some algae, then descriptive terms, such as "Palmaria-like" or "Leafy red that is green color" may be used.
- F. Back on the boat the data sheets are recopied on duplicate data sheets for the algae crew records. The original data sheets are returned to the invertebrate crew.

## I. ALGAL BIOMASS QUADRAT SAMPLING

- A. Algal biomass sampling will take place at all areas and habitats.
  - 1. Areas include PWS, **CIK**, and KAP
  - 2. Habitats include sheltered rocky, exposed rocky, coarse textured, and estuarine.
- B. The algae crew will assist the invertebrate crew with laying out transects and sampling quadrats. **See figure 2.**
  - 1. Transects TN.3 and TN.6
  - 2. Quadrats 1, 2, 3, and 4
  - 3. For detailed Procedures of quadrat sampling see the invertebrate SOP's.
  - 4. All algae samples should be preserved in 5% formalin and shipped to Juneau under the proper chain of custody procedures.
  - 5. Make copies of the field log sheets so the Juneau laboratory has a record of what happened in the field.

## 111. FUCUS DENSITY

- A. Fucus density will be carried out for the following areas, habitats, transects, and quadrats:
  - 1. PWS, **CIK**, KAP and sheltered rocky, exposed rocky, and coarse textured. **Do not. sample estuarine sites.**
  - 2. TN.3, TN.6 and quadrats 1, 2, 3, and 4.

- B. Fucus densities will be determined by measuring a 1m semi-circle from the left edge of the experimental quadrat. See figure 3.
- C. Search for fertile Fucus in increasing radii outward from the center point of the semi-circle.
  - 1. A fertile Fucus plant **will** have well developed receptacles.
  - 2. Measure the distance from the semi-circle center point to the nearest fertile Fucus holdfast.
- D. Data should be recorded on the algae percent cover and semi-circle data sheets provided.

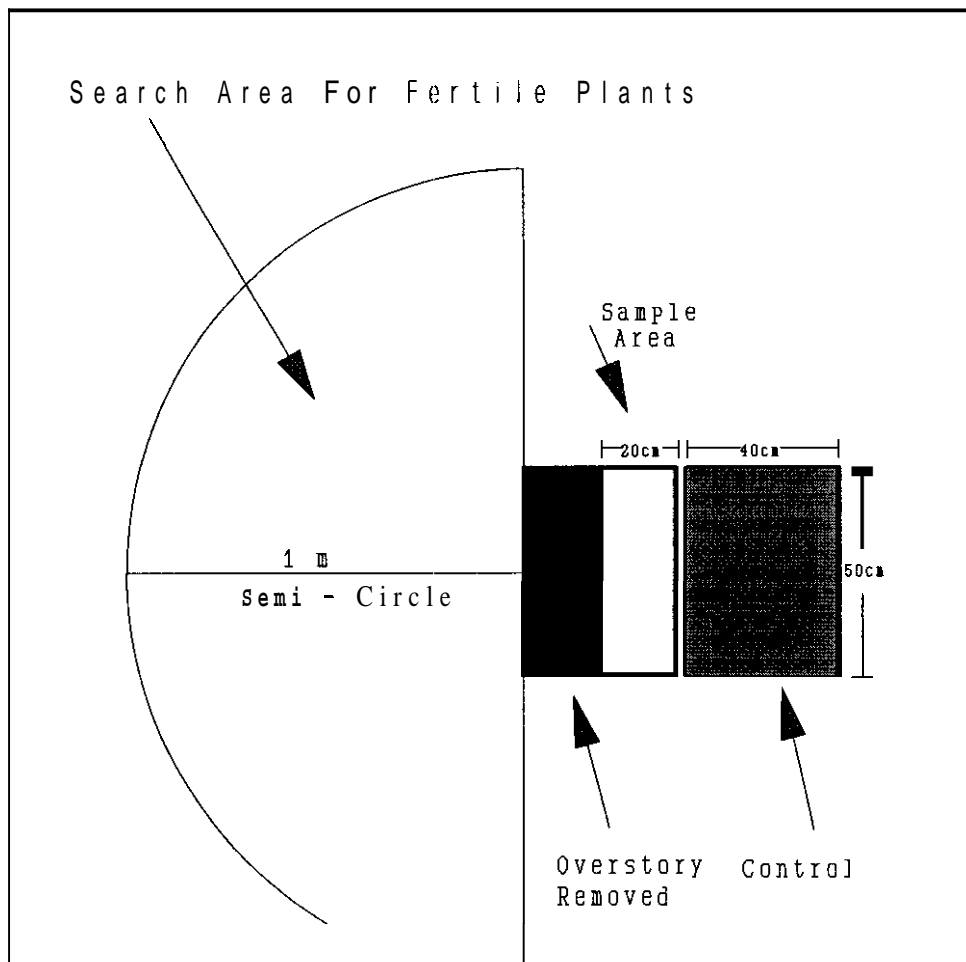
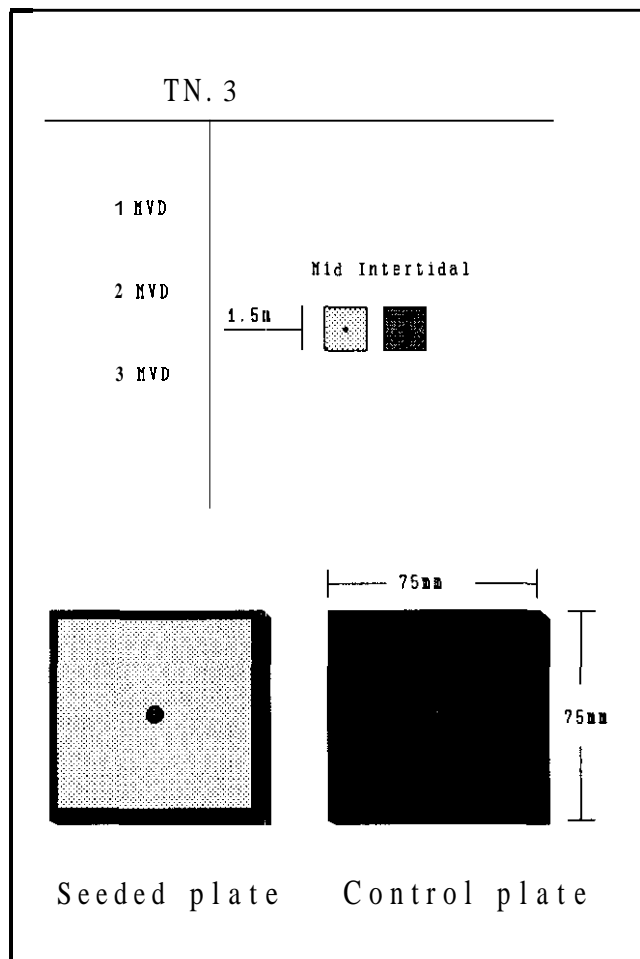


figure 3

#### IV. FUCUS GERMLING GROWTH

- A. Recruitment of new plants can be influenced by residual oil effects on newly settled germlings. This growth experiment will use embryos on artificial substrates to measure any such effects.
1. The embryos will be collected from adult plants from sites that have not been oiled (near **JCFOS** to ensure a reliable and consistent supply of embryos).
  2. Embryos will be released and settled on artificial substrates according to the methods detailed in the laboratory section of this study plan.
  3. The seeded plates will be shipped to the vessels for attachment on each site. Plates can be stored under refrigeration on the boats for at least one month.
- B. Plates will be placed in all areas and the following habitats:
1. **PWS, CIK, KAP** and sheltered rocky, exposed rocky, and coarse textured.
  2. **No** plates will be placed on estuarine sites.
- C. At each site, **6** pairs of plates will be attached in the intertidal at the 2.5 MVD contour below the high tide mark. **See figure 4.**



**Figure 4**

1. The plates will be located 1.5-2.0 meters to the right of the N.3 quadrats on all transects at the site.
2. A numbered tag will be bolted to the center of the plate attachment site.
3. A pair of photos will be taken of the location after the tag is in place.
4. The plates will be placed side by side. The seeded plate will be placed either on the right or left of the tag as determined by a random number. The unseeded control-plate is placed on the opposite side of the tag. Plates can be rotated clockwise around the tag if necessary for better attachment.
5. The plates will be bolted to the rock using a pneumatic roto-hammer drill and wall or masonry anchors. If no suitable rock surface is available to attach the plates, a flat rock which does not alter the general character of the site (i.e. the site aspect and slope) may be used for the tag and plates. Each plate will be marked with a unique number.
6. At each site an area of approximately 1 meter in radius will be cleared of all adult Fucus plants.
7. A second pair of photos will be taken of the site after the plates have been bolted to the rock surface.
8. To avoid desiccation of the plates, place wet, unfertile, immature Fucus plants (plants containing no receptacles) over each plate. These will keep the plates damp and will be washed off when the tide covers the plates.
9. Record how plates were placed in the field along with their numbers. Also keep a photo log.

F. The plates will be left in place for approximately one year.

1. In the summer the plates will be dislodged and preserved in 5% formalin. Each plate is to be preserved in its own bag and labeled.
2. Pack the plates carefully and ship with chain of custody forms to M. Stekoll at JCFOs.

## V. FUCUS EMBRYO GERMINATION

- A. A potential impact of the oil spill is to decrease the intrinsic viability of the reproductive cell produced by the parent plant. The viability of eggs released from Fucus plants in oiled and control sites will be tested by growing released eggs from the site for 48 hours. Fucus plants will be selected from all quadrats at the designated sites by the following procedure.
- B. Samples for Fucus embryo germination should be collected at the same areas, habitats, transects, and quadrats as the Fucus density experiment outlined earlier.
- C. The semi-circle used for determining Fucus densities will be used in selecting a fertile Fucus plant.
  1. After the distance to the nearest fertile Fucus is recorded, remove the plant from the substrate and place in a bag with an identifying tag.
- D. Once the samples are on the research vessel, the plants should not be exposed to formalin or formalin fumes under any circumstances.
  1. Choose one receptacle from each collected plant according to the following criteria:

Longest branch  
Largest receptacle  
Darkest conceptacles  
Slime (Mucus)

2. Remove the receptacle by cutting it below the inflated part of the blade.
3. **Blot** dry the receptacles and place them on a seawater dampened towel and dry 24 hours in the incubator (**8-10** degrees C, 16:8, L:D cycle).
4. After this time period remove the receptacles and wash them in three separate fresh water baths and blot dry.
5. Place each dry receptacle into a 60 ml square-sided bottle along with 20.0 ml of sterile seawater (the seawater will be furnished by **JCFOS**).
6. Screw the cap on tight and place the bottle on its side in the incubator. The incubation conditions should be **8-10** degrees centigrade, at 40-60 microEinsteins/m<sup>2</sup>/s with a 16:8 L:D photoperiod.
7. The outside of each bottle should be labeled with the following information:

Sample #  
Site #  
Transect #  
Quadrat #  
Date  
Distance  
Time in:  
Time out:

8. When the bottles are set in the incubator, make sure the labels do not shade or block the light.
9. After 48 hours remove the receptacles from the bottles. Add 2.0 ml of **0.1%** Calcofluor in seawater to each bottle.
10. Discard the receptacle. Let the bottles stand for 20-30 minutes to allow the cells to absorb the stain.
11. After this time add 7.0 ml **of** 20% formalin to each bottle. This gives the final concentration of formalin in the bottles equal to 5%.
12. Do a visual check to see if there is any egg release. If there is consistently no egg release, contact JCFOS for assistance.
13. Place the bottles in a zip-lock bag with the tags and incubator log sheet. Fill out the chain of custody form and ship the packaged bottles back to:

Dr. Michael S. Stekoll  
**JCFOS**  
University of Alaska  
11120 Glacier Highway  
Juneau, AK 99801

## VI. COLLECTION OF ALGAE FOR VOUCHER COLLECTION

- A. Because algal samples collected from the quadrats have often not been of sufficient quality for positive identification, the intertidal algae crew will make additional collections which are representative of what species are being collected.
1. Voucher collections should be done at all areas and habitats.
- B. Transect voucher collections should include specimens collected outside of the transect lines.
1. Collect whole plant samples of each species that occur in the quadrat samples along the transect lines. They should be collected when each transect is visited.
  2. Place all the collected specimens together in a plastic bag and bring them back to the research vessel for preservation.
- C. An additional general collection should be made to include those algae that are not sampled in the quadrats. This may include newly encountered or unknown species. Also collect any reproductive specimens that you find.
1. These algae are usually found during the low tide by the edge of the water.
  2. Place these specimens in a bag separate from the transect vouchers and bring them back to the boat for preservation.
- D. On the boat, the collections should be divided up for liquid preserves and dried pressings. Each species collected should be represented in both types of preservation.
1. Liquid preserves should be in 5% formalin, put in double whirl packs, and shipped to Juneau with proper labels and chain of custody forms.
  2. Pressed and dried specimens should be labeled with the following information:  
  
Genus/species name  
Location (sitename and CHIA number)  
Date  
Habitat (including tidal height)  
Collected by  
Identified by  
Sample number (see above)  
Comments
  3. Keep the pressed samples in a large plastic bag. File them flat in closable plastic bins or other suitable containers. At the end of the cruise, these pressed specimens should be sent to Juneau.
- E. Maintain a record of the pressed specimens in a log book.
1. A suggested format is:  
  
File # (e.g. 800's)  
  
Site # (CHIA number)  
Site name/location  
Type of beach (habitat)  
Date  
Lowest tide on this date  
Salinity range



Species List: (example)

Species#	Genus	Species
1	<u>Fucus</u>	<u>gardneri</u>
2	<u>Palmaria</u>	<u>mollis</u>

F. Also keep a running list of all genera collected during the cruise.

#### VII. CHIA Hydrocarbon Sampling - SEDIMENT

The following information should be read prior to sampling:

"State/Federal Damage Assessment Plan - Analytical Chemistry- Collection and Handling of Samples"

"Shipping Samples Taken for Hydrocarbon Analysis"

"Damage Assessment Custody Forms and Data Entry - March 2, 1990"

- A. Hydrocarbon samples should be taken at all areas and habitats.
- B. ~~All~~ hydrocarbons should be collected before any petroleum powered equipment is used on the beach.
  - 1. Note any deviations from the procedures in the field notebook.
  - 2. It is convenient to place everything in a suitable container, such as a toolbox or bucket. (Materials will also be used for sampling mussels)
- C. Select 2 of the site transects by a random number procedure to determine where to take samples.
  - 1. If there are six transects, select one of the first 3 transects at random.
  - 2. If the first transect is selected, then also select the fourth. If the second transect is selected, then also select the fifth. If the third transect is collected, then also select the sixth.
  - 3. A sediment sample should be collected from the 1 meter radius semi-circle also used for Fucus density and embryo germination experiments.
  - 4. Collect the sample from the closest location possible from the center of the semi-circle.
  - 5. Collect every other spoonful (i.e. 1st, 3rd, 5th, etc. as you dig with the spoon) of material from the top 10 cm of sediment or as deep as possible if the substrate prevents going to the 10 cm depth.
  - 6. Sediment is defined as any inorganic mater that is less than 2 cm in diameter. If there is no sediment within the semicircle, then do not attempt to get a sample. Instead, note on the log sheet why a sample was not taken. For example: "No sediment because all rocks were greater than 2 cm."
  - 7. Do not wear rubber gloves or have oily hands when collecting the sediment sample. Use a fresh spoon for each semicircle collection.
  - 8. Place collected sediment into a 4 oz. (220-125) I-Chem jar until the jar is full to its shoulder or until there is no more sample available. Be careful when taking the lid off of the jar that it does not become inadvertently contaminated.
  - 9. After filling the jar, secure the lid on the jar. Label the jar with the following:

Site #  
Transect #  
Quadrat #  
Date

Name of Sampler (sign whole name)  
Type of Sample (sediment or field blank)  
Sample # (from custody forms)

10. Take a field blank at each site. The purpose of the field blank is to control for hydrocarbon contamination not associated with the sediment itself. To take a field blank, open a clean I-Chem jar for as long as a sample jar is open during the average sample sediment operation. Do not put anything into the jar. Secure the lid on the jar and label it as above. Only one field blank per site is necessary.
- D. When **you** get back to the boat, sign and date a piece of evidence tape for each jar.
1. Stick the tape on the lid and down the side of the jar.
  2. Give each jar a sample number according to the custody form. Write the sample number on the jar label under the type of sample taken, including the field blank.
  3. Do not put more samples on the custody form than will fit into the container in which you will eventually ship them. Fill out the custody form according to the instructions.
  4. Freeze samples as soon as possible.
- E. When **you** have enough samples frozen to fill a shipping container, a float plane is coming, and the person at the base camp is expecting the samples. Carefully pack the jars for shipping.
1. If they cannot be kept in the original box, you will have to wrap each jar in bubble pack, cardboard, or newspaper.
  2. Double check your custody form to make sure it corresponds with the inventory in the cooler.
  3. Sign the release on the custody form and on the comments section indicate to whom the shipment is being sent via float plane. For example: "shipped via Cordova Air".
  5. Put the custody form in the cooler and seal the cooler with signed and dated evidencetape.
  6. If the float plan does not make it in, open the cooler, and put the jars in the freezer before they thaw. Re-sign the custody form and indicate that the float plane did not arrive.
- F. Supplies list for complete sediment hydrocarbon sampling.
1. 3 forceps (form mussel sampling)
  2. 8 or 9 metal spoons covered with aluminum foil
  3. 9 I-Chem 402 jars and labels
  4. 3 I-Chem 16oz jars and labels (form mussels)
  5. Zip **lock** bag (to hold contaminated foil, spoons, and waxed paper backs of labels)
  6. Space pen and/or Sharpie
  7. Rite-in-Rain "Sediment Hydrocarbon Field Notebook"
  8. aluminum foil
  9. hexane
  10. acetone
  11. Teflon rinse bottles
  12. hydrocarbon custody forms
  13. evidence tape
  14. bottle labels
  15. coolers
  16. cardboard or bubble pack
  17. Blue Ice
  18. dishwashing soap
  19. waste containers for solvents
- G. Procedures for cleaning sampling materials.

1. Spoons:

- a. Rinse the used spoons thoroughly in clean seawater.
- b. Wash with soap and hot water
- c. Rinse with clean freshwater. If distilled water is available, the last rinse should be with distilled water.
- d. Rinse twice with acetone, discarding washings into an "acetone waste" container".
- e. Rinse twice with hexane, discarding washings into a "hexane waste" container.
- f. Wrap each spoon with solvent rinsed (see below) aluminum foil, the dull, solvent-rinsed side against the spoons.

2. Solvent-rinsed foil:

- a. Do not wash the foil with soap and water.
- b. Rinse the dull side twice with acetone.
- c. Rinse the dull side twice with hexane.

I. Format for entry in the Hydrocarbon Data Log Sheet

Site #  
Date  
Area  
Random #  
Transects selected  
Sample numbers (from COC form)  
    Quadrat 1  
    Quadrat 2  
    Quadrat 3  
    Quadrat 4  
Field Blank #  
Date shipped to base camp  
Chain of custody (CoC) form #  
Comments

VIII. TEMPERATURE AND SALINITY MEASUREMENTS

A. Take temperature and salinity readings from sites at all areas and habitats.

1. Measurements should be taken at the 15 meter depth contour just off the mid-section of the site.
2. Take readings of temperature and salinity using the TS meter provided at depths of 0.2, 1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0, 9.0, and 10.0 meters.
3. It is permissible to use the outboard motor to maintain your station after the first readings at 0.2 and 1.0 m have been taken, but only if care is taken not to get the cable tangled in the propeller.
4. For currents that are too strong to allow the cable to hang vertically, add lead weights to the cable. At least two people must be in the skiff for these readings.

B. Record temperature and salinity data on the TS log sheet.

1. All data should have the proper number of significant figures. Record the data to +/- 0.5 degrees for temperature and +/- 0.5 ppt for salinity. That is a reading of 25 ppt should be recorded as 25.0 ppt.
2. Note on the log sheet the time the samples were taken and the weather and sea conditions.

- C. TS readings can be taken at any time during the tidal cycle on the same day that the transect quadrats are done.
- D. Keep the TS cable coiled and in a plastic bucket in order to protect the coil and the probe.
  - 1. Mark the cable with colored electricians tape at the depths to be measured. Put double tape or different colored tape at the 5m and 10m depths to distinguish these from the other marks.
  - 2. The TS meter is a sensitive, precision instrument and must be handled with extreme care. Keep it in the case to protect it from jarring as well as salt spray and rain water.
  - 3. Clean the meter and the probe when you return to the boat. Dry the TS meter. Never store the meter wet.
  - 4. Soak the probe in fresh water to remove the salt and organics. Follow the soaking with a rinse of distilled or deionized water.
  - 5. Rinse the cable with fresh water. Inspect the end of the cable that plugs into the meter for damage and/or corrosion. Keep this plug clean and shiny. You may have to use fine steel wool to remove salt or other corrosion.
  - 6. Check the batteries for the meter before going to the sites. Always keep an extra battery with the meter in the case. Keep extra batteries in inventory to avoid a shortage.

### C- 6.3. 1991 ALGAE FIELD SEASON

#### OVERVIEW:

The following is a summary of the duties of the intertidal algal crew who will be participating in the 1991 transect cruises in all three areas, Prince William Sound (PWS), Cook Inlet/Kenai (CIK), and Kodiak/Alaska Peninsula (KAP). See figure 5.

- I. **Algal Percent cover Estimates:** Percent cover of algae will be conducted on both the control and experimental side of each quadrat on every transect including transects from 1989 and 1990. Percent cover estimates will be accomplished by using a point contact grid and recording all algae species found directly beneath each cross point.
- II. **Algal Biomass Quadrat Sampling:** The 1991 quadrat sampling procedure will be continued from the previous years and is detailed in the invertebrate SOP. Transects TN.9 and TN.12 will be established and quadrats to be sampled will be first through third MVD's. TN.12 will be a control transect and no sampling shall be done on its quadrats.
- III. **Fucus Density Estimates:** Fucus density estimates will be accomplished by measuring a 2 meter semi-circle to the left of the 1991 quadrats at all MVD's on all transects. The distance to the first Fucus plant and the first reproductive Fucus plant will be recorded. The length and reproductive status of each of these two plants will also be recorded. These measurements will be done by the intertidal algae crew during the first visit to the site.
- IV. **Fucus Germling Recruitment and Growth Plates:** The Fucus germling plates that were placed on sites in 1990 will be removed during 1991. The plates will be preserved and sent to the Juneau laboratory for enumeration.
- V. **Algal Voucher Collections:** A general collection of algae will be gathered from each site. This collection will include all algal species that occur on the site.
- VI. **Temperature and Salinity Measurements:** Temperature and salinity measurements will be taken once during the first visit to each site visited in 1991. The measurement will be taken using a CST meter at the 15 meter depth contour offshore of the middle of the site.
- VII. **Intertidal Algal Records:** Records will be kept on all aspects of the intertidal algal responsibilities.
- VII. **Algal Sample Processing:** Algal samples collected on the site will be processed aboard the boat for shipping to the lab.
- VIII. **Legal Obligations:** Intertidal algal samples will be recorded on Chain of Custody (COC) forms and Evidence Tape (ET) will be used on shipping and storage containers.

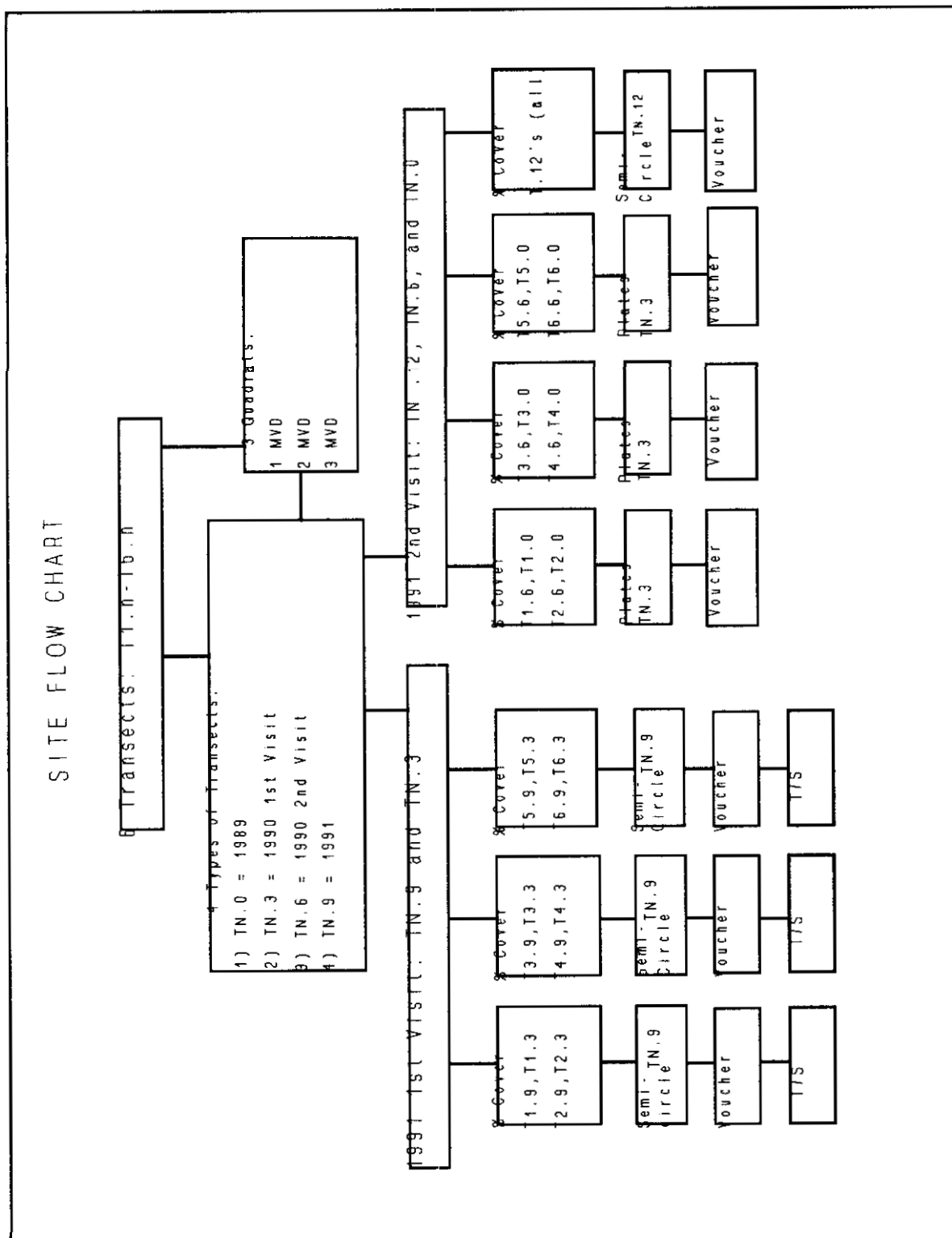
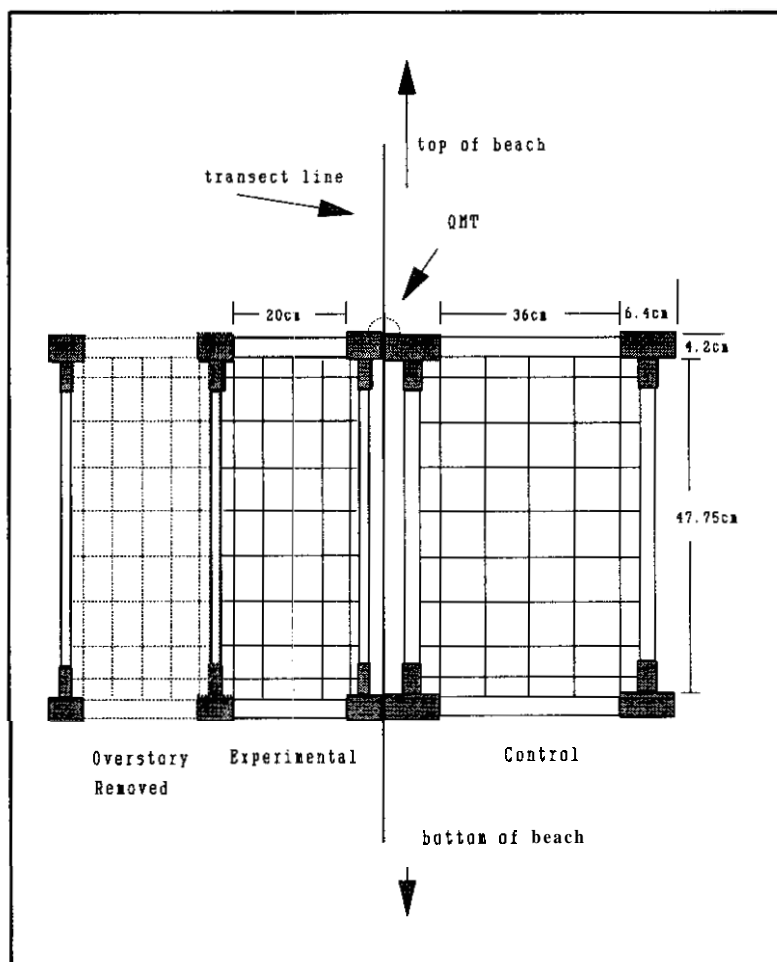


Figure 5: 1991 Site Flow Chart of Algal Field Crew Duties

## I. ALGAL PERCENT COVER **ESTIMATES**

- A. Percent cover **will** be done on all possible transects and quadrats: TN.0 (1989), TN.3, TN.6 (1990), TN.9 (1991), TN.12 (1991 second visit) control and sampled quadrats of the 1st, 2nd, and 3rd MVD.
1. During the first visit to the site the **TN.9** and TN.3 transects will be done and then during the second visit to the site the TN.6 and the TN.0 and TN.12 transects will be done. The justification for this schedule is two fold:
    - a. First **it** allows for better comparison for when transects were visited in past years.
    - b. Second, **it** allows more time for more thorough percent covers to be done in the field.
  2. Each member of the intertidal algal crew **will** do at least 4 transects per visit at a site. **For** example, during the **first visit** to a site:
    - a. Person "A" will do 1.9, 2.9, 1.3, and **2.3** transects.
    - b. Person "B" will do 3.9, 4.9, 3.3, and 4.3 transects.
    - c. Person "C" **will** do 5.9, **6.9**, 5.3, and 6.3 transects.
- B. Percent cover will be done before there is any disturbance to the quadrat plots by anyone. Before the percent cover is done, the estimator will remove any drift and flotsam from the quadrat plot.
- C. Percent cover will be accomplished by using a 40 point grid. There are two sizes of grids. **See figure 6.**
1. The large grid (43.75 cm x 32 cm) is used on the sampled quadrat of 1991 transect (TN.9) and the Control quadrats of 1991 transects (TN.9) and 1990 transects (TN.6 and TN.3).
  2. The small grid (43.75 cm x 16 cm) is used on both the sampled quadrat and control quadrats of the 1989 transects (TN.0). The small grid is also used on both halves of the sampled quadrat on 1990 transects (TN.6 and TN.3). These two halves are the right half, which is the side where there was 100% removal of intertidal algae and invertebrates, and the left half, where only the intertidal algae overstory was removed.
- D. To place the grids on the quadrats, first locate the quadrat metal tag (QMT). **See figure 6.**



**Figure 6: Percent Cover Quadrats and their Placement on the QMT.**

1. For control plots: Place the upper **left, outside** corner of the PVC 'T' joint over the center of the screw which holds down the QMT. The first cross-hair point on the grid should be located **6.4** cm to the right and **4.2** cm down from the center of the screw.
  2. For the experimental plots: Place the upper **right, outside** corner of the PVC 'T' joint over the center of the screw which holds down the QMT. The first cross-hair point on the grid should be located **6.4** cm to the left and **4.2** cm down from the center of the screw.
  3. For the overstory removal plots (1990 transects): After completing the percent cover for the experimental side of the 1990 quadrats, note where the center seam on the upper **left** hand PVC 'T' joint is and flip the frame over to the overstory removed portion of the quadrat.
- E. After the grid is in place, a record of what is observed (algae, invertebrate, or substrate) directly beneath each of the **40** points on the grid is recorded. Record only the algae that is visible as it lays naturally, without disturbing anything. If an epiphyte is under the point, count the epiphyte. Do not count the algae that the epiphyte is on.
- F. The field data sheet consists of **40** boxes representing the points on the quadrat grid. See example of percent cover field data



sheet.

1. Each box should have a number representing an algal genus, a morphological type, a description of non-algal objects such as a class of invertebrates or bare rock, or a sample tag number for an unidentifiable algae.
2. A list of the most commonly encountered algae with their accompanying numbers, morphological types, and of non-algal material, will be provided for recording information in each box of the field data sheets. See example.
  - a. There is a differentiation made between the sizes of Fucus.
    1. Big Fucus: (greater than 2 cm long or, for field purposes, greater than 1 knuckle length) and,
    2. Small Fucus: (less than 2 cm long, again, for field purposes, less than 1 knuckle length.)
    3. Fucus Bones: (damaged plants with only bare stipes remaining)
- G. In addition, each time an unidentifiable algae is selected by a percent cover point, the unknown is given an morphological type code and an example of it is found outside of the sampling quadrat and collected. The sample tag number is written on the percent cover data sheet in the block that corresponds with the point under which the unknown was found.

## 11. ALGAL BIOMASS QUADRAT SAMPLING

- A. Algal biomass quadrat sampling will be carried out with the same procedure as the 1990 field season. See the invertebrate SOP's for more information.
  1. Transects TN.9 and TN.12 and the first, second, and third MVD will be established.
  2. TN.9 will be the (only transects to have quadrats sampled.

### 111. FUCUS DENSITY ESTIMATES:

These data are taken on both the 1991 visits TN.9 and TN.12

- A. Center a 2.0 meter radius semi-circle midway between the top and bottom of the left hand outside edge of the experimental quadrat frame. Place the quadrat frame in the same position with respect to the QMT as was done for the percent cover estimates. (Use the large quadrat frame with the metal cup hook to locate the zero point). See sample Fucus semi-circle data sheet.
- B. NEAREST Fucus :
  1. Measure the distance to the holdfast of the nearest Fucus plant. Record the distance in centimeters, rounded to the nearest whole centimeter.
  2. Measure the length of the Fucus plant from the base of the holdfast to the tip of the longest branch. Record the length in centimeters, rounded to the nearest 0.5 cm.
  3. If there are receptacles on the plant, record the reproductive condition of the receptacle on the longest branch. This method is designed to select a receptacle for fertility assessment in an unbiased manner. Score the fertility of this receptacle as follows:  
  
1 = no receptacles present

- 2 = flat with developing conceptacles
- 3 = swollen with conceptacles as light dots
- 4 = swollen with conceptacles as dark dots and/or mucilaginous.
- 5 = receptacles depleted and decay evident.
- 6 = Fucus bones or holdfasts

4. When there are no Fucus plants within the 2 meter semi-circle enter:

Distance: 999  
 Length: 999  
 Reproductivity: 999

5. When the NEAREST Fucus has a reproductive condition of 3 or 4, then this NEAREST Fucus will also be the NEAREST REPRODUCTIVE Fucus.

- 3 = swollen with conceptacles as light dots
- 4 = swollen with conceptacles as dark dots and/or mucilaginous.

6. Enter "\*" in the NEAREST REPRODUCTIVE Fucus column if the first NEAREST Fucus also had a reproductive index of 3 or 4.

Distance: \*  
 Length: •  
 Reproductivity: \*

C. NEAREST REPRODUCTIVE Fucus:

1. Reproductive Fucus have receptacles with the following characteristics:

- 3 = swollen with conceptacles as light dots.
- 4 = swollen with conceptacles as dark dots and/or mucilaginous.

2. Measure the distance to the holdfast of the Nearest **Reproductive Fucus**. Record the distance in centimeters, rounded to the nearest whole centimeter.
3. Measure the length of the plant from the base of the holdfast to the tip of the longest branch (including the receptacle). Record the length in centimeters, rounded to the nearest 0.5 cm.
4. Record the average reproductive condition using the procedure outlined in B-3 above.
5. When there are no Reproductive Fucus plants found in the semi-circle enter:

Distance: 999  
 Length: 999  
 Reproductivity: 999

6. Enter "\*" if the first NEAREST Fucus PLANT also had a reproductive index of 3 or 4.

Distance: \*  
 Length: •  
 Reproductivity: \*

IV. FUCUS GERMLING RECRUITMENT AND GROWTH PLATES:

Fucus germling growth plates were placed to the right of the TN.3 transects around the 2.5 MVD. Two plates sit side by side. As part of the 1991 field

season, the algae crew will retrieve these plates and send them to Juneau for analysis.

- A. Record the following information for the seeded and control plate pairs in the field and fill out the Fucus Germling Growth Plates Recovery Log. Remember, only **brief** descriptions are necessary. The actual enumeration of the plates will be done in the laboratory.
  1. Area.
  2. Site.
  3. Transect.
  4. Seeded/Control. If this information is unknown, cross out the words "seeded" and "control", then mark whether the plate was on the left **or** the right as seen with your back to the water.
  5. Date In
  6. Date Out
  7. Plate Number
  8. MVD of the plates' position on the beach.
  9. Condition of the plates on beach.
  10. What is on the plate. (See below).
    - a. Number and type of grazers on the plates (After enumeration, remove all grazers from the plates.)
    - b. Presence and general size of Fucus.
    - c. Species of algal dominants.
    - d. Species of major sessile invertebrates
  11. Comments
  12. Done By. (Observed & removed by.)
- B. The two plates (experimental and control) at each 1990 transect should be carefully removed using a cordless drill **or** manual Phillips-head screwdriver without disturbing any of the algae.
  1. Each plate should be placed in an individual whirl-pak with tag for transport back to the boat where they will be preserved in 5% formalin.
  2. Use the cordless **'drill** or a gasoline powered roto-hammer masonry drill to drill out any remaining plastic anchor in the rock. **Also** remove the QMT and screw from the rock.
- C. Back on the boat carefully use a squirt bottle of 5% formalin to preserve the sample.
  1. Be sure to put in enough formalin to keep the sample from drying out during shipment.
  2. Put the plate pair in double whirl-paks with a sample tag facing out so it can be read. Ship the plates, wrapped in bubble wrap, in a white 5 gal bucket lined with a black garbage bag. Keep the carbon copy of the COC form to inventory the plates and send the original with the bucket of plates.

## V. ALGAL VOUCHER COLLECTIONS

- A. A general site collection of algae should be made to include all those algae that occur on the site.
  1. Be sure to include all algae that occur in the upper intertidal above the transect area, in the mid intertidal (transect area), and down to the low water line.
  2. Make sure this collection has its own properly labeled tag.
  3. If any reproductive algae are on the site, include several examples in this collection.
  4. Be sure to collect enough specimens of each species so they

can be both pressed and formalized.

- B. All specimens will be both preserved and pressed except for kelps, fucoids, Porphyra, and Bangia. These latter plants should be pressed ~~without preserving~~. The actual pressing of algae is a detailed process which your algal crew leader will demonstrate before the field season begins.

1. Unpreserved specimens in seawater: These should be pressed directly on the smallest size herbarium sheet possible, noting collection number on the sheet.
2. Preserved specimens: Wash specimens in seawater for sorting and pressing. Press as above, noting collection number on the sheet. Return the unpressed samples to 5% formalin/seawater in black plastic for storage between pressing periods.
3. Once you have pressed all the algae selected from the voucher collections, set up a numbering system **for** each pressed alga **so** you can avoid confusion between sites. The numbers should include the year (eg. 1991), a three letter code **of** the general area (PWS, CIK, **or** KAP), followed by an arbitrary site number (start with 1 **for** the first site visited), and a two digit specimen number (01, 02, 03,...). For example, the eighth specimen pressed from the sixth sampling site in Prince William Sound will be given the number 1991 PWS 608. Be sure to keep a log **of** what you press at each site.
4. Double bag liquid preserves with proper labels and place the samples in the General Voucher Collection bucket lined with black plastic.
5. Pressed specimens should be kept dry in plastic bags by site.

C. Documentation

1. Voucher tags should go in each formalized whirl-packs.

Sample Voucher Tags:

- a. Site #
  - b. Date Collected
  - c. Transect **or** Site Voucher Collection
  - d. Collector's Name:
2. Voucher Collection Inventory. **An** inventory **of** all voucher collections should be made including algae collected outside the quadrat and used as representatives of an unknown species found within a quadrat. Chain of Custody forms will be used to inventory these samples.
  3. Each pressed algae that is dry should receive a proper label containing the following information. Be sure to place the label on the back of the sheet.
    - a. Genus/species name
    - b. Location (site name and CHIA number)
    - c. Date collected
    - d. Oil/Habitat
    - e. Collected by
    - f. Identified by
    - g. Sample number
    - h. Comments (e.g. tidal height, substrate, reproductive)
  4. Keep the pressed samples from each site in a plastic bag and in its own file. File them flat in plastic bins **or** other suitable containers with tight lids **so** no moisture can get to them. At the end of the cruise, these pressed specimens

should be sent to Juneau. Keep a log of what was pressed at each site along with a master list of identified species for your area.

## VI. **TEMPERATURE AND SALINITY MEASUREMENTS**

- A. Read the manufacturer's operator instructions for the proper use of the temperature and salinity instrument.
- B. Temperature and salinity measurements will be taken during the first visit to the site. Take temperature and salinity readings at the 15 meter depth contour off the coast in the middle of the site, equidistant from each end of the site, preferably during an incoming tide. **For** example, after the site has been sampled.
- C. Take "temperature and salinity" (TS) readings at depths of 0.2, 1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0, 9.0, and 10.0 meter.
  1. Record the data to  $\pm 0.5$  degrees for temperature and  $\pm 0.5$  parts per thousand for salinity on the TS data sheet. All data should have the proper number of significant figures. **For** example, a reading of 25 ppt should be recorded as 25.0 ppt.
  2. Note on the log sheet the time the samples were taken using a 24 hour clock. **For** example 03:15 p.m. would be 1515.
  3. Record the ambient air temperature in degrees Celsius and record the weather using the following standardized descriptions:
    - a. Clear & no rain.
    - b. Overcast &/or foggy, no rain.
    - c. Drizzle.
    - d. Heavy rain.
  4. Record the wind speed using the following categories:
    - a. 0 knots
    - b. 1-5 knots
    - c. 6-10 knots
    - d. 11-20 knot
  5. Record the seas using the following standardized conditions:
    - a. Calm
    - b. Light, waves or swells to 1 foot.
    - c. Medium, waves **or** swells 1-2 feet.
    - d. Heavy, waves or swells  $\pm 2$  feet.
  6. Note the water currents using the following standardized descriptions:
    - a. No current
    - b. Slight current
    - c. Strong current (**For** example, had to use outboard to maintain position due to current while taking TS measurements.)
  7. Note any freshwater influences using the following standard generalizations:
    - a. Raining now **or** within the last 4 hours.
    - b. Run-off, stream, or river on site.
    - c. Snow, on beach **or** down to high tide level.
  8. Provide additional comments if necessary.

- D. Keep the angle of the cable as close as possible to vertical when taking the readings. It is permissible to use the outboard motor to maintain your station after the first readings at 0.2 and 1.0 m have been taken, but be careful not to get the cable tangled in the propeller. For currents that are too strong to allow the cable to hang vertically, add lead weights to the cable.
- E. Keep the TS cable coiled and in a plastic bucket in order to protect the coil and the probe. Mark the cable with colored electricians tape at the depths to be measured. Put double tape at the 5 and 10 m depths to distinguish these from the others.
- F. The TS meter is a sensitive, precision instrument and must be handled with extreme care.
  - 1. Keep the meter in the case during use and in storage to protect it from jarring, salt spray, and rain water.
  - 2. Clean the meter and the probe when you return to the boat.
    - a. Soak the probe in fresh water, distilled or deionized water. Rinse the cable with fresh water. Dry the TS meter. Never store wet.
    - b. Inspect the end of the cable that plugs into the meter for damage, and/or corrosion. Keep this plug clean and shiny. Use fine steel wool to remove salt or other corrosion.
    - c. Check the batteries for the meter before going to the sites. **Always** keep an extra battery in the case with the meter.

## VII. INTERTIDAL ALGAL RECORDS

- A. A Sites Visited Index should be kept on each cruise and include the following information:
  - 1. Numbering from 1 to     that indicates the order in which the sites were visited. For example, the first entry is the first site visited, the second entry is the second site visited, etc.
  - 2. The site number, i.e. 601.
  - 3. The location of the site, i.e. Herring Bay.
  - 4. The date the site was visited and sampled.
  - 5. The oiling and habitat code for the site, i.e. "14".
- B. An Algal Site Cruise Log shall be kept to serve as a reference of all sites visited **during** the cruise. This is in addition to the Sites Visited Index. The algae site logbook shall have the following information:
  - 1. Site #
  - 2. Site Name
  - 3. Oil/Habitat code
  - 4. Date Visited
  - 5. Low tide level on the day the site was visited
  - 6. Salinity range
  - 7. Comments:
    - a. Geology of beach, aspect, drawings of outcroppings or sub-habitats, and type of substrate on site.
    - b. Major algae observed at the site, including notes on the zone of discovery, and if they are fertile.
    - c. Treatment of beach by Exxon.
    - d. Evidence of oil on the site and what state it is such as sheen, mousse, or tar.
    - e. Note what duties were accomplished on the site as well as those that were not. For example, all percent

- covers were taken but we were not able to recover Fucus plates from transect 2.3.
- f. Note anything else strange or worthy of comment you observed while working the site.

C. A Things-Not-Done Log **will** be kept for all sites and transects. The intertidal algal field leader for each area will check the completeness of all data logs and forms prior to departure from the beach and/or site. This will enable missing data to be procured.

1. Complete the Things-Not-Done Log by using the Coastal Habitat Assessment Log Sheets (the field data sheets that the Intertidal Invertebrate crews use) to determine which quadrats were not sampled by the invertebrate crew and why. For example, "Site **601**, Quad 3 was not sampled in Transect 1.9 because the tide was too high".
2. Use the Fucus Semi-Circle Sheets to determine which quadrats did not get sampled. For example, "Site **601**, Quad 3 was not sampled in Transect 1.9 because the tide was too high and Quad 1 in Transect 3.9 was not sampled because there was a dead sea lion in the semi-circle".
3. Keep track of the Temperature and Salinity measurements done at each site. For example, "T&S not taken at site **1522** due to rough water and high winds, moved to another site before T&S could be done".
4. If voucher collections of algae were not completed at a site, note this also. For example, "Voucher collections at site 453 were taken but sack of specimens was left on beach and tide came in and we lost the specimens. Moved to another site and we couldn't redo the collections".
5. Note when Fucus Germling Plates are not recovered. For example, "**Plates** from site **1598** were not recovered because we couldn't find any of them. The beach is coarse textured and high energy, suspect all plates lost due to winter storms. Site **598**, Transect **6.6**, seeded plate was not recovered, it was not there, perhaps it broke off during winter. Recovered only the control plate from this transect".
6. Keep track of all percent covers that were not completed. For example, "Site **1424**, percent covers for all quadrats on transects TN.0, TN.3, TN.6 were not done because there was so much algae (quantity and diversity) that we only had time for % covers on TN.9 transects. At site **601**, transect **1.9**, quad 3, percent cover not done because tide was too high. Transect 1.6 quads 2 & 3 were in a fresh water stream (Heavy rains the last 4 weeks)".

D. A Sample Shipped Inventory should be carbon copies of the Chain of Custody forms. They will be used to keep track of the samples packed, stored, shipped, and received in Juneau.

#### VIII. ALGAL SAMPLE PROCESSING

A. The algae from the quadrats and the algal voucher collections will be processed and preserved in the following manner:

1. Each of the algal samples will be entered on a Chain of Custody (COC) form.
2. Each algal sample will be preserved in 5% formalin made with seawater.
3. Each sample **will** be double bagged in whirl-paks with the sample tag facing out and readable. Jugs will have the sample tag within the jug and the sample tag information printed on the lid top with a "Sharpie". Jug lids should be sealed with electrician's tape.

4. Each set of transect samples will be placed in a heavy plastic bag sealed with electrician's tape. Write the Area, Site #, Transect #, and Date of Collection on the outside of the bag.
5. The bags of samples will be placed in white buckets lined with black garbage bags. The purpose of the black garbage bags is to limit the samples' exposure to light and subsequent fading of pigment.
  - a. The lids of the white buckets will be sealed with a small piece of evidence tape.
  - b. The white bucket will have a fluorescent orange address label within an "Avery self-adhesive poly shipping envelope" stuck to the side of the bucket. Write the COC form # on the address label. The address will have the following information for CIK and PWS samples:  
  
 To: Mike Stekoll  
 JCFOs  
 11120 Glacier Highway  
 Juneau, Alaska 99801  
 Phone: 789-4579  
 COC#: \_\_\_\_\_
  - c. For samples collected in KAP the following address should be used:  
  
 Larry Deysher  
 Coastal Resources Associates  
 2270 Camino Vida Roble  
 Suite L  
 Carlsbad, CA 92009  
 Phone: (619) 438-0588  
 COC#: \_\_\_\_\_
  - d. Place the original COC in the shipping container. Keep the carbon copy of the COC for the samples inventory.
- B. Each time the ship comes into port at SEWARD, unload the sample buckets at the Seward Marine Center's warehouse in the Intertidal Algae's designated area. At the end of the season all the buckets of samples will be shipped by surface to Juneau for PWS and CIK or California for KAP.

#### IX. CHAIN OF CUSTODY:

- A. Chain of Custody (COC) forms will be completed on all samples. Completion of the COC's will occur on board the boat, after a site is finished. One COC form will be completed for each bucket or box of samples. Each algae sample recorded on a field data sheet should be on the COC. Complete a COC as follows:
  1. Insert a sheet of carbon paper between two blank COC forms. All information must be printed legibly. Fill in all pertinent blanks on the form as follows:
    - a. Project Region (i.e. PWS)
    - b. Page # (i.e. 1 of 3)
    - c. COC form #, assigned by area's chief crew leader.
    - d. Date Collected
    - e. Site #
    - f. Transect #
    - g. Quadrat #
    - h. Field Tag # (= Sample Tag #)
    - i. Sample Type (i.e. quadrat algae, percent cover genus)



- verification, etc.)
    - j. Location (i.e., Herring Bay)
    - k. Remarks: Use this space to note any discrepancies or special notes.
    - 1. Samples Collected By (signed by algae crew leader for the area)
    - m. Relinquished By (signed by algae crew leader for the area)
  - 3. The original COC form is put in the shipping container. Keep the carbon copy of the COC as sample inventories.
- B. Evidence tape is used to detect unauthorized tampering of samples following sample collection. Evidence tape is used on the outside of all sample shipping and/or storage containers.
  - 1. Use evidence tape as follows:
    - a. Cut a pieces of evidence tape about 8 cm long.
    - b. Sign, with full signature, and date the piece of tape.
    - c. Stick the tape to the sample container in such a way that it is necessary to break the evidence tape in order to open the container.
  - 2. Evidence tape must be affixed to the container before the samples leave the custody of the sampling personnel.

#### C-6.4. LABORATORY

##### OVERVIEW

#### I. Macro Algae Sorting

Algae from the quadrat samples will be sorted and identified to genus. Each genus will have its reproductive status and wet weight recorded.

#### II. Fucus Attribute Sorting

Individual Fucus gardneri plant lengths will be measured. The following attributes for each plant will also be observed: general condition, reproductivity, number of receptacles, percent inflated blades, regeneration, epiphytes, and percent cover of epiphytes.

#### III. Fucus Germling Recruitment and Growth Plates

Fucus recruitment and growth plates will be observed for the presence or absence of algae and invertebrates.

#### IV. Fucus Egg Viability Enumeration

Fucus egg viability success will be enumerated by counting the percentage of unfertilized eggs, undivided fertilized eggs, and embryos with more than one cell division.

#### V. Identification of Pressed Algal Vouchers

The pressed voucher algae specimens collected on each site will be identified to genus and species. Each press will be verified, labeled, and archived by our algal taxonomist at a later date and put in our registered herbarium (ALAJ).

#### VI. Algal Photo Percent Cover

Due to the inadequate visual estimates of algal percent cover done in the field during 1990, algal percent cover data will be recovered from the 1990 quadrat photographs.

#### GENERAL INFORMATION FOR ALGAE SORTING

Sites will be sorted in order of priority according to shore morphology. The order will be habitat, area, and year. The priority of the habitats will be sheltered rocky, coarse textured, estuarine, exposed rocky, and fine textured. Priority for the areas are Prince William Sound (PWS), Cook Inlet-Kenai (CIK), and Kodiak-Alaska Peninsula (KAP). The priority of the year/visit is 1990 1st visit (TN.3), 1991 1st visit (TN.9), 1989 (TN.0), 1990 2nd visit (TN.6), and 1991 2nd visit (TN.12).

You will sort one sample at a time. Always attempt to completely sort each sample within 8 hours. If this is not possible, the algae must be re-bagged and put back in 5% formalin and the invertebrates kept in 50% isopropyl alcohol until the sample can be completed. All the samples for a site will be completed before moving on to the next site.

**WARNING: Formalin is a carcinogen, great care should be taken when handling. Be sure to wear latex or rubber gloves. Sieve and rinse samples under the vented hood.**

Take the sample to be sorted to the hood in the wet lab. Rinse the algae and attached invertebrates in a 1 mm mesh sieve with fresh water to remove silt and formalin. This prevents the loss of small filamentous algae and invertebrates. Put rinsed sample, including the stuff that was caught in the 1 mm mesh screen, into a sorting tray with enough seawater to cover the algae

and prevent desiccation. If the sample was oily, immediately clean the sieves with a scrub brush and detergent to prevent the sieves from clogging.

After the formalin has been rinsed out of your sample, keep the sample tag in the sorting tray to insure correct identification of the sample. If there is no sample tag in the bag, check the Coastal Habitat Log Sheet and the Chain of Custody Forms, by process of elimination, the sample tag number can be determined providing that the sample was properly recorded in the field. If there is no sample number, double check the Coastal Habitat Log Sheet and Chain of Custody Form for the lost sample number. If the sample number cannot be found, refer this sample to your laboratory supervisor.

Take the sorting tray with the sample and tag to the dry lab. Using the Algae Data sheet (yellow) or the Fucus Data sheet (green) to record information, begin sorting the sample. All entries on the data sheets must be in black ink. If a mistake is made, draw one line through the mistake, date and initial it. Neatly re-write the correction.

A schematic of the following sorting procedure is included in this SOP. First, sort out all Fucus plants and remove invertebrates that are easily sorted from the entire algae sample. Generally invertebrates can be easily sorted out of the Macro algae, on the other hand, invertebrates are not easily sorted out of filamentous wads. Second, make a determination as to whether or not the macro algae or filamentous wads should be split and/or sub-sampled. Third, sort all macro algae by genus. When you are finished sorting the sample, preserve all the algae in 5% Formalin and the invertebrates in 50% isopropyl alcohol. Put proper labels on all the sample bags.

#### DEFINITIONS:

**Easily Sorted:** A sample that can be completely sorted for algae and invertebrates within 2 working days (16 hours). The goal is always to completely sort a sample rather than split or sub-sample. Splitting or sub-sampling should not be viewed as short cuts to sorting. Patience and diligence will sort the most difficult samples.

**Macro Algae:** Macro algae is all macroscopic algae that is not Fucus and not filamentous.

**Filamentous Wads:** Filamentous wads are those species of algae that form un-sortable masses, such as Pilayella and Cladophora. When handling filamentous wads, first, determine if the sample needs to be split. A filamentous wad will have to be split if there are invertebrates caught in the algae. Invertebrates can be hard to see, so look for their presence under the dissecting scope. A procedure for sampling wads is given later.

**Sorted Invertebrates to Fairbanks:** The algae samples we sort have invertebrates in them that must be sent to Fairbanks. There will be loose invertebrates and invertebrates that are attached to algae. Encrusting invertebrates, such as Spirorbis and Eryozoans, are the only exceptions and are not sent to Fairbanks. The goal is to send all the invertebrates larger than 1 mm to Fairbanks as soon as possible. Generally all the invertebrates can be removed from the algae sample, however, sometimes the invertebrates are NOT easily sorted out. In this case, split the portion of the algae sample that is NOT easily sorted for invertebrates. The randomly selected half that is sent to Fairbanks must be properly labeled with the "Algae for Invertebrate Sorting" tag. If there were no invertebrates in your sample, you still must fill out an "Invertebrates Sorted out of Algae" tag for that sample and write on the tag "No invertebrates found among the algae".

**Sub-Sampled:** An algae sample that is greater than 50 grams in weight that cannot be easily sorted for algae may be sub-sampled. A sub-sampling procedure is included in this SOP.

**Split sample:** An algae sample that is greater than 50 grams in weight that has invertebrates in it that are not easily sorted out of the algae sample. To

split an algae sample, divide the blotted wet weight in half. Randomly choose a half to be preserved in 5% formalin and send this half to Fairbanks for invertebrate sorting.

All split samples are to be clearly labeled and tagged as split samples. The label must include area, site, transect, quadrat, sample #, and what type of sample it is. Use laboratory tape on the bag or bottle to identify samples **AND** include a pre-made tag when appropriate. Tags are labeled:

**Inverts Sorted Out of Algae:** 'This tag goes with the sorted invertebrates sent to Fairbanks.

**Algae Pending Identification:** This tag goes with the algae, excluding Fucus, that is pending algae identification. **Be sure to indicate on the tag whether or not the sample has been split.**

**Algae for Invert Sorting:** This tag is for algae that is to be sent to Fairbanks for invertebrate sorting. **Be sure to indicate on the tag whether or not the sample has been split.**

**Field Tag:** The original field tag remains with the Fucus. If there was no Fucus in the algae sample, the original field tag goes with the other algae.

### **Laboratory Data Sheets**

Use the data sheets to record information from the samples as follows for all data types:

- a. AREA:
  - 1 = Prince William Sound (PWS)
  - 2 = Cook Inlet Kenai (CIK)
  - 3 = Kodiak Alaska Peninsula (KAP)
- b. SITE: Enter it as it appears off the sample tag. For example, 1522C, 601, or CIK14.2C.
- c. TRAN: Enter it as it appears off the sample tag. For 1989 data the transects will be 1.0, 2.0, and 3.0. For 1990, first visit, the transects will be 1.3, 2.3, 3.3, 4.3, 5.3, 6.3. For 1990, second visit the transect will be 1.6, 2.6, 3.6, 4.6, 5.6, 6.6. If an area was visited a third time, the transect number will be 1.9, 2.9, and so on.
- d. QUAD: Enter as it appears on the sample tag. It will be 1, 2, 3, or 4. Because of the 25 meter rule, estuary quadrats will be 1.1, 1.2, 1.3, 2.1, 2.2, 2.3, 3.1, 3.2, and 3.3.
- e. QUAD METAL TAG# (QMT): Enter as it is recorded on the Coastal Habitat Log Sheet (CHLS).
- f. DATE COLLECTED: Enter as it appears on the sample tag.
- g. SAMPLE NUMBER: The unique sample number will be entered for each sample. When algae was present in the quadrat it will have it's own unique sample number. On the Coastal Habitat Log Sheet's (CHLS) for 1989 it is usually the sample number with an "(A)" or "Algae" after it. For example, 1127(A) or 1276 Algae. We are not analyzing drift algae (D). Be careful: in 1989 CIK sometimes used an (A) for "animals"! For data in 1990 and beyond the CHLS has a space for the algae sample number to be recorded.
- h. OILING & HABITAT CODE: This code is for the oiling and habitat type at a site. The first digit is oiling and the

second is habitat.

Oiling Type	Habitat Type
1 = Heavily Oiled	1 = Exposed Rocky
2 = Moderately Oiled	2 = Fine Sediment
3 = Lightly Oiled	3 = Coarse Textured
9 = No Oil or Control	4 = Sheltered Rocky
	5 = Estuarine

For example, site 1522C is a "24", moderately oiled sheltered rocky site. This information should be on the sample tag and the CHLS. These codes need special attention, especially for samples collected in 1989 when sites often had both a main habitat type and a sub-habitat.

## I. ALGAE DATA

### A. Macro Algae Sorting

Key the algae out to **genus**, and to species if easily done, using the **Keys to the Benthic Marine Algae and Seagrasses of British Columbia, Southeast Alaska, Washington, and Oregon.**

1. You may not be able to identify fragments of algae. Do not waste time on minute pieces of algal thalli. Ask for help if you get stumped.
  - a. When you find a genus of algae that you have never seen before, attempt to key it out using the keys and voucher collections of slides and preserved material, then have Mandy Lindeberg verify your identification. Have Mandy initial your new "find" on your Algae Data sheet.
  - b. Any algae found that we do not have in the voucher collection should be made in to a permanent slide and preserved in a small vial. Label all collection specimens.
  - c. Any algae that can not be identified by Mandy must be preserved and sent to Dr. Gayle Hansen for identification.
  - d. Use the Macro Algae Code list to completely fill out all algae codes on the Algae Data sheet.
  - e. Separate all epiphytes that are greater than 1 cm in length or diameter and include them with the macro algae. Do not identify or count smaller epiphytes on macro algae.
2. Treat algae sorted out of invertebrates (understory) as you would normally sort an algae sample, except note on the Fucus Data Sheet and Algae Data Sheet that the origin of the sample was from an invertebrate or sediment sample.
  - a. Use the invert or sediment number that came with the sample.
  - b. If there are two sample numbers associated with a bag (i.e. two sediment jug numbers) write both numbers down. The smallest number will be used for data entry.
3. Separate all epiphytes that are greater than 1 cm in length or diameter and include them with the macro algae. Do not identify or count smaller epiphytes on macro algae.
4. For filamentous wads which cannot be separated easily, identify all genera.

- a. You may have to use a dissecting microscope for this task.
- b. Do not spend more than 10 minutes attempting to identify any one genus.
- c. Cease examination of the wad if no new genera are found after ten minutes of additional searching.

B. Macro Algae Recording Data

1. Use the yellow algae data sheet to record information from the sample as follows.
  - a. Genus Code: Three letter code.
  - b. Species Code: Three letter code which is the first three letters of the species. Enter "SP?" for those genera that we do not identify to species.
  - c. Actual weight:
    - i. Enter the actual weight. (Do NOT adjust in any way, the computer will do all the math for you.)
    - ii. Wads, enter the actual weight of the total wad for each genus found in the wad. Be sure to assign the appropriate weight code to the genus (genera) found in the wad (2, 3, 5, 6, 8, or 9). See "Weight Type" below.
    - iii. Trace genera, algae with a weight of less than .01, enter .001. Remember to enter the weight type code that corresponds to a "Trace" (10). See "Weight Type" below.
  - d. Weight Type:
 

0 =	None (Zero is used for data entry purposes only.)
1 =	Macro Weight
2 =	<b>Predominate</b> genus in a <b>wad</b>
3 =	<b>Secondary</b> genus (genera) in a <b>wad</b>
4 =	Split Weight
5 =	<b>Predominate</b> weight of a genus in a <b>split wad</b>
6 =	<b>Secondary</b> genus (genera) in a <b>split wad</b>
7 =	Sub-sampled weight
8 =	<b>Predominate</b> weight of genus in <b>sub-sampled wad</b>
9 =	<b>Secondary</b> genus (genera) in a <b>sub-sampled wad</b>
10 =	Trace
  - e. NG: **Number of secondary genera** in a wad entered for each genus in the wad. (**For** a wad NG > 0.) Enter a 0 for those genera that are not part of a wad.
  - f. SS: Ratio of sub-samples only, i.e. 3/16. **For** all other samples enter 1.
  - g. Observed Reproductivity: Write out the reproductive structures you found.
  - h. REP COD: Enter the reproductive code that corresponds to the reproductivity you observed:
 

-1 =	Missing data. The Cheat Sheet lists those genera where it is legal to use a "-1".
0 =	No reproduction observed.
1 =	This code is used for data entry purposes only for algae with undefined reproductivity that was sorted in 1990.
2 =	Sporophylls
3 =	Unilocular
4 =	Plurilocular
5 =	Cystocarpic
6 =	Tetrasporic

- 7 = Male
- 8 = Female
- 9 = Propagules
- 10 = Receptacles
- 11 = Pericarps
- 12 = Vegetative Regeneration
- 13 = Male and Female
- 14 = Spermatangia
- 15 = Monosporangium
- 16 = Tetrasporic and Cystocarpic
- 17 = Plurilocular and Unilocular
- 18 = Unangia
- 19 = Plurangia
- 20 = Unangia and Plurangia
- 21 = Procarp
- 22 = Pericarp and Tetrasporic
- 23 = Procarp and Tetrasporic
- 24 = Spermatangia and Tetrasporic

# 11. FUCUS ATTRIBUTES

A. Use the green Fucus data sheet to record information from the samples as follows: See example of Fucus data sheet.

1. PLANT #: Record the number of individual Fucus plants, those with distinguishable holdfast and stipe. Do not measure Fucus plant fragments or blades without stipes and holdfast. However, these fragments and blades are included in the blotted wet weight.

2. **LNGTH:** ~~All~~ Fucus lengths will be rounded up to the nearest 0.5 cm. Length will be taken from the holdfast of the plant to the longest blade. Individual plants will be those that have holdfast, or apparent holdfast and stipes. The following are examples of rounding **up** to the nearest 0.5 cm:

Actual Length:	Recorded Length:
5.0 cm	5.0 cm
2.6 cm	3.0 cm
3.4 cm	3.5 cm
10.1 cm	10.5 cm
9.1 cm	9.5 cm
0.3 cm	0.5 cm

3. **DAMG:** The general condition of the Fucus plant will be graded as follows:

- 1 = healthy plant with normal wear **6** tear
- 2 = interior erosion, initiating from mid-rib
- 3 = exterior erosion, initiating from outer edge
- 4 = both interior and exterior erosion
- 5 = stipe without blade

4. **REPRO:** All Fucus plants will be examined for reproductivity.

- 1 = no receptacles present
- 2 = slightly swollen with conceptacles
- 3 = swollen with conceptacles
- 4 = swollen with conceptacles as light dots
- 5 = fully swollen with conceptacles as dark dots
- 6 = receptacles depleted and decay evident

5. **#RECP:** Count the total number of receptacles on the plant and record that number. **A** receptacle is counted as two when

the cleavage is more than half the way down the receptacle.

6. REGEN: Many of the Fucus plants show signs of regrowth or regeneration when they have been damaged or eroded.
- 1 = no regeneration observed
  - 2 = vegetative regeneration present
  - 3 = reproductive regeneration present
  - 4 = vegetative & reproductive regeneration present
  - 5 = other (describe abnormal growth on the bottom of the Fucus Data Sheet.)
7. INFLT BLADE: Fucus blades are often inflated, these inflations look like smooth blisters. The percentage of an individual plant that has inflated blades will be estimated using the following key:
- 0 = none
  - 1 = 1% to 25%
  - 2 = 26% to 50%
  - 3 = 51% to 75%
  - 4 = 76% to 100%
8. EPIPH: Other algae plants often grow upon the Fucus plant. The identity of the these epiphytes will be determined. When a Fucus plant has more than one epiphyte, the species of the most abundant epiphyte on an individual plant will be indicated. The most abundant epiphyte is the species that fouls the most surface area of the Fucus plant. For example, a Fucus plant has two epiphytes: a long, matted Pilayella sp. is the most obvious species, attached to 30% of the plant, and Rivularia sp., being smaller is less obvious, but covers 60% of the plants surface. In this case, Rivularia sp. will be counted as the most abundant. If two epiphytes occur in the same concentration on a plant, choose one of the species by a flip of the coin. Indicate the most abundant epiphyte using the following code:
- 1 = no epiphytes observed on Fucus
  - 2 = Elachista sp.
  - 3 = Pilayella sp.
  - 4 = Blue-green\*
  - 5 = Cladophora sp.
  - 6 = Kormannia sp.
  - 7 = Enteromorpha sp.
  - 8 = Monostroma sp.
  - 9 = Blue-green\*
  - 10 = Ulothrix
  - 11 = Bryozoans (Invertebrate)
  - 12 = Polysiphonia sp.
  - 13 = Spirorbis (Invertebrate)
  - 14 = Mussel byssal threads (Invertebrate)
  - 15 = **Mixed:** Three or more epiphytes
  - 16 = Eggs (Invertebrates or Fish)
  - 17 = Paimaria sp.
  - 18 = Porphyra sp.
  - 19 = Odonthalia floccosa
  - 20 = Neorhodomela sp.
  - 21 = Endocladia muricata
  - 22 = Barnacle
  - 23 = Halosaccion sp.
  - 24 = Sphacelaria sp.
  - 25 = Diatoms
  - 26 = Audouinella sp.



\*Two different species of blue-green, (4) Rivularia and (9) Calothrix, have been lumped to the general name of blue-green. Both #4 and #9 can be used for reporting a blue-green.

If an epiphyte extends beyond the end of the Fucus plant, forming a large mass, remove the majority of the epiphyte and place it with the appropriate macro algae and/or filamentous wad. Do not spend more than 15 seconds per Fucus plant removing epiphytes.

As new species of epiphytes are identified they will be given a code. Some genera were labeled as epiphytes without verification which were not true epiphytes and were later corrected. The list of epiphytes and their codes **will** be updated as each new species is identified.

- i. % EPIPH: The percent cover of all the epiphytes on the entire plant will be estimated. In the aforementioned example, the percent cover of epiphytes will be 90% (Pilayella sp. 30% + Rivularia sp. 60% = 90% total epiphyte coverage) Use the following key to indicate percent cover of epiphytes on a plant:

0 = none  
1 = 1% to 25%  
2 = 26% to 50%  
3 = 51% to 75%  
4 = 76% to 100%

9. SORT: Sorter number should be entered corresponding to the person sorting for the Fucus Data Sheet. The algae sorters at JCFOs, Juneau, have the codes 1-49 and the algae sorter at Coastal Resource Associates in California have the codes 50-99. If you don't have a code, sign your name on Fucus Data Sheet. The sorter codes for JCFOs are as follows:

0 = no sorter*	11= Skip Clary
1 = Julie Avila	12= Jim Jasper
2 = Caryn Good	13= Kevin Magruder
3 = Kevin Ferrel	14= Michael Fairbanks
4 = Robin Jenne	15= Mie Huang
5 = Jeff Szarzi*	16= Ron Benkert
6 = Scott Pettit	17= Ellen Anderson
7 = Mandy Lindeberg	18= David Wetzel
8 = Pam Croue	19= Roger Price
9 = Shelly Spszanski	20= Michelle Bourassa
10= Mike Lake	21= John Maniscalco

- i. In the beginning Jeff Szarzi was "0", but now he is "5" because "0" is for "No Sorter". For example, when there was no Fucus collected in a quadrat.

10. Record the blotted wet weight for Fucus on the Fucus Data sheet. Before weighing the Fucus, remove all of the excess water by blotting between paper towels. Blot. Do not crush or squeeze. Use the electronic gram scale and record the weight rounded to the nearest 0.01 gram. If the weight is less than 0.01 gram, enter "T" for "Trace".
11. Add the total number of receptacles found on the Fucus plants within the sample and record that number on the Fucus Data sheet.

- B. Algal Sub-Sampling is an algae sample that is greater than 50 grams in weight that cannot be easily sorted for algae and may be

sub-sampled as follows:

1. To sub-sample, first, rinse the formalin out of the algae. Drain off excess water, and pat gently with paper towels to blot dry. Weigh the sample to get the blotted wet weight of the total sample. Record this weight on the back of the Algae Data sheet.
2. Divide the sample evenly among 16 numbered (from 1 through 16) petri dishes. Accomplish this by dividing the blotted weight by 16 and distributing this weight to each of the 16 petri dishes.
3. Get a random number from the calculator. That random number will select one of the petri dishes with algae. Keep the samples in the petri dishes preserved in 5% formalin.
4. Weigh the samples from each genus from each sub-sample. When the algal sample is sub-sampled, the coefficient of variation of the 'wet weight' of each genus must be computed as follows:
  - a. Divide the sample into 16 homogenous sub-samples (in petri dishes) of equal weight. Select the first two petri-dishes at random as described above and record the variables of interest (genus weights) from the two sorted petri-dishes.
  - b. Compute the coefficient of variation of the mean weights for each genus using the following formula:

$$CV(\bar{x}) = \frac{s}{\bar{x}} \sqrt{\frac{1}{n} - \frac{1}{N}}$$

where **n** is the number of subsamples actually sampled, **N** is the total number of subsamples possible (16), and **X** is the mean. **s** is the sample standard deviation and is computed from the following formula.

$$s = \sqrt{\frac{n(\sum x^2) - (\sum x)^2}{n(n-1)}}$$

- c. If the coefficient of variation is less than 0.125, **stop**. Otherwise select an additional region at random and repeat step (2). The value 0.125 is the maximum value that should be used.
- d. After stopping, record (i) the number of petri-dishes sampled, (ii) the mean, and (iii) the estimated total (N times the mean).

### III. FUCUS GERMLING RECRUITMENT AND GROWTH PLATES

#### A. Collecting Seed Material

1. Between mid and low tide, look for inflated, fully ripe receptacles. Signs of ripeness include abundant mucus, and dark, prominent conceptacles.
2. Collect receptacles by breaking them off from the flat portion **of** the thallus, without breaking or tearing the inflated part **of** the receptacle itself. A rough guide to estimate the number of receptacles needed is to take twice as many as the number **of** plates to be seeded. A better estimate could be made using current data on average numbers of eggs released per receptacle.
3. In the lab, wash all the receptacles thoroughly with cold tap water to remove any previously released eggs, slime, dirt and contaminating organisms. Wash about 1 minute and lay out on towels. Blot dry. The washing and drying step may be repeated, if necessary.
4. Put washed and dried receptacles into a covered, transparent container on towels dampened with seawater. Leave in the incubator at 10°C and L:D 16:8.

#### B. EGG RELEASE

1. Re-wash desiccated receptacles with cold tap water, and again lay out on towels and blot dry.
2. Put receptacles in 20 x 100 mm petri dishes one layer deep. Add sterile seawater to at least partially cover the receptacles. (Eggs will be released even if the upper surface of the receptacle is out of the water.) Label dishes with date, batch #, and dish #.

#### C. Settling onto Plates

1. Eggs will be released between 1 and 48 (or more) hours from the start of incubation. We have observed that eggs were most often released just before the beginning of the light period following the day incubation was started (about 18 hours from the start of incubation). Eggs should be taken within 48 hours of the start of incubation, and they must be taken within about 6 hours (or less) after release, or they will get "sticky" and can no longer be successfully reseeded onto another surface.
2. After egg release remove receptacles from petri dish and gently agitate the solution with a pasteur pipette to distribute the eggs evenly. Immediately put the eggs under the microscope, and count all the eggs in each of 5 - 10 randomly selected fields of view. Average the counts. (We used an inverted compound microscope at 100x.)
3. Calculate the area of the field of view you are using (The radius or diameter of the field of view can be measured with a micrometer and used to calculate the area.) Also calculate the area of the petri dish. An estimate of the total number of eggs in the dish can be then made by multiplying the average number of eggs per field of view by the area of the petri dish divided by the area **of** the field of view.
4. Decide on a seeding density, i.e. how many eggs/cm<sup>2</sup>, and multiply that density by the total area of the plates to be seeded in one container, to find the total number of eggs needed. Calculate the proportion of the total number of eggs counted to give the correct number for seeding. Actual seeding densities were around 125-150 eggs/cm<sup>2</sup>, but the optimum density, at least for the first six months of growth seems to be much higher, around 250 eggs/cm<sup>2</sup>.

5. Put four 7.5 x 7.5 cm plates into a clear plastic tub. Ideally the plates should fill most of the bottom surface of the container **so** eggs are not wasted by settling on the container bottom. Fill the container with sterile seawater to cover the plates. Then gently agitate the egg suspension to distribute the eggs evenly and pour in the correct volume, spreading them over the entire surface of the plates. The eggs are heavy and sink quickly, but they begin to stick to the surface within several hours. The seeding container should not be moved at all for 2-3 hours to give the eggs time to start sticking to the plates.
6. Label the container with the date, batch number, and plate numbers and cover with a transparent lid (or plastic wrap if a transparent lid isn't available). Set in an incubator at 10°C and L:D 16:8. (A slightly higher or fluctuating temperature is probably OK for Fucus.)

#### D. Incubation and Shipping

1. Seeded plates are incubated for at least 4-5 days, then they may be refrigerated or frozen for shipment to the field site. If seeded plates are to be incubated longer than 1 week, the sterile seawater should be replaced. (Fucus germling plants will need some added nutrients to keep growing after 2 or 3 weeks of incubation, if they are not set out in the field.)
2. Reserve 2 or more plates from each batch to keep in laboratory culture, **so** growth and survival of plants may be observed without grazing or other environmental effects. These plates should be frozen for approximately the same amount of time as those shipped out to the field (see #3 below). After freezing place the plates in a large seawater tank in which water is replaced at least every 1-2 weeks (no added nutrients). One of the two reserved plates is set out in the intertidal area near the lab, to observe growth and survival in an un-oiled environment (see #4 below).
3. If seeded plates are to be shipped frozen, drain the water off, slit 2 lengths of plastic tubing to put on edges of plate as a spacer, and stack plates **so** the seeded surface is facing in. Plates should be put into plastic bags or other airtight containers, and frozen quickly. Seeded plates can remain frozen or chilled for 3-4 days, but should be put back in seawater and given light as soon as possible **so** plants can continue to grow.

#### IV. FUCUS EGG VIABILITY

##### A. Lab procedure for enumeration of released eggs.

1. Record all data from each site on a single Fucus Fertility Data Sheet. Enter the area, site number, habitat, and date collected on the top of the data sheet.
2. Sample units are in 5% formalin. Wear protective gloves when handling the samples. Each sample has a volume of 30 ml. Dislodge the settled eggs from the glass slides (if any) and the wall and bottom of the container by gently swirling the containers. A short sonication burst may be necessary to ensure complete detachment of settled eggs. Pour the egg suspension into two 15 ml centrifuge tubes.
3. Cap the tubes and allow the eggs to settle overnight. (Alternatively, centrifuge the samples for 6 seconds on a clinical centrifuge. Remove settled samples from the bottom of the centrifuge tubes with a Pasteur pipet. Quickly place 3 drops from the pipet onto a clean glass microscope slide. Place a large cover slip (23 x 25 mm) over the

drops. Wipe away excess fluid from the edges and bottom of the slide.

4. Examine the slide under KW light on the fluorescent microscope (UV incident light; #1 emission filter). For each sample a count of 100 embryos and/or eggs should be made, scanning across the slide from left to right and top to bottom as viewed through the microscope. Use a power of 100X (i.e. the 10X objective with 10X eyepiece). Determine the number of unfertilized eggs, undivided fertilized eggs and embryos with more than one cell. If less than 100 embryos/eggs are present on the slide, prepare additional slides according to step 3) above. Continue this process until 100 eggs/embryos have been counted per sample or until 4 separate slides have been examined. Record the number of slides examined on the data sheet.
5. If less than 100 eggs/embryos have been enumerated from a sample, reconcentrate the sample, letting it stand capped overnight. Prepare and examine up to two additional slides the following day. If the total eggs/embryos is still less than 100, record the numbers obtained on the data sheet. **Also** record the number of slides examined in this supplemental sample.
6. On the data sheet enter the sample number and eggs/embryo counts in the appropriate columns to the right of the corresponding transect/quadrat. **Also** enter the "date/time in" and "date/time out" and "distance" information from the tag included with the sample. Enter the date the eggs were enumerated and the initials of the technician doing the enumeration. Add any additional comments you feel are noteworthy.
7. The remaining sample should be returned to its original container with the accompanying label, sealed and stored.
8. Keep data sheets filed by area and site.

B. Sample Eucus Fertility Data Sheet

1. Column headings:
  - a. Distance: (cm)
  - b. Date Collected:
  - c. Time In:
  - d. Time Out:
  - e. # Unfertilized Eggs:
  - f. # Undivided Fertilized Eggs:
  - g. # Embryos > 1 Cell:
  - h. # Slides examined: (up to 4)
  - i. # Supplemental Slides Examined: (up to 2)
  - j. Date Examined:
  - k. Examined By:
  - l. Comments: :Make a note of anything unusual in the sample

V. IDENTIFICATION OF PRESSED ALGAL VOUCHERS

The project algal taxonomist, Dr. Gayle Hansen, will verify field identifications of all pressed specimens and professionally prepare them for the ALAJ (Alaska Juneau) registered herbarium.

- A. Identify all algal specimens to species.
- B. Professionally mount dried specimens on full size herbarium sheets of paper.
- C. Make professional herbarium labels for each sheet containing the following information: genus, species, citation, site, location, where found, date collected, collected by, identified by, and date

identified.

- D. Return all specimens to the project registered herbarium (ALAJ).

## VI. ALGAL PHOTO PERCENT COVER

The following procedures outline how to collect algal percent cover data from photographs of quadrats. Before starting, be sure to review the field percent cover SOP's so you understand the experimental design and sampling procedure used in the past. A training period will be held for each person to verify proper procedure and identifications.

### A. Materials

1. A room with slide projector.
2. A 40 point grid on white paper with the same dimensions as those used in the field.
3. Slides labeled C (controls) and A (w/algae).
4. Photo percent cover data sheets and a list of codes used for identifications.

### B. Procedure

1. Slides must be organized i for each site n the following order for the slide projector:

T1.n	Q1	control	w/algae
T2.n	Q1	control	w/algae
T3.n	Q1	control	w/algae
T4.n	Q1	control	w/algae
T5.n	Q1	control	w/algae
T6.n	Q1	control	w/algae
T1.n	Q2	control	w/algae
T2.n	Q2	control	w/algae
T3.n	Q2	control	w/algae
T4.n	Q2	control	w/algae
T5.n	Q2	control	w/algae
T6.n	Q2	control	w/algae
T1.n	Q3	control	w/algae
T2.n	Q3	control	w/algae
T3.n	Q3	control	w/algae
T4.n	Q3	control	w/algae
T5.n	Q3	control	w/algae
T6.n	Q3	control	w/algae

2. Photo percent cover data sheets can be addressed before the slides are looked at and should be organized in the same manner as the slides. Beware of sites that have an odd number of transects or missing quadrats.
3. Tape the 40pt. grid to a wall and focus the quadrat image onto the grid so that the quadrat frame lies just outside the grid.
4. Two people will work as a team, one running the slide projector and scribing while the other identifies the objects directly under each point on the grid.
5. Get to know your percent cover codes for the various algal genera, substrate, and invertebrates in the list provided. Identifications of algae to genus must be 100% accurate. If there is any question to what an alga may be, get it verified by Mandy. If it can only be determined that an object is some kind of algae, invertebrates, or substrate and nothing more, record it as follows: Unidentified Algae = **UA**, Unidentified Invertebrate = **UI**, and Unidentified Substrate = **US**. There will be some cases where shading in the photograph prevents proper identification and should be recorded as a **X** on the data sheet.

6. At the end of each day allow enough time to tally your data sheets. All codes within a quad should add up to 40 points. For example: code 24=35pts + code 76=5pts = 40pts.