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

COMPREHENSIVE ASSESSMENT OF COASTAL HABITAT

COASTAL HABITAT STUDY NUMBER 1 A FINAL REPORT

VOLUME V

APPENDIX C Parts 5 (continued) and 6

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> > DECEMBER 1994

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	Chloroph	nyta					Morp	hologi	cal	Group: B	laded Gr	eens					Bla	ded G	reens (AE	(a)			
Site Pair	Mvć	1 N	С	SE	Ŋ	0	SE	CV	D	P	N	c	SE	N	0	SE	CA D		P	N	c	SE	N	0	SE	C.	V D	P
4825C/1424 453C/453 601C/601 598C/598 152ZC/1522	1 1 1 1 1 1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	1.00 0.00 0.00 0.00 0.00	1.0 0.0 0.0 0.0	0 - 0 - 0 -	0		6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0	1	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00)	- o - o	1.000 1.000 1.000 1.000
Habitat Mea	ıns		0.00	0.00)	0.20	0.2	0	-			0.00	0.00		0.00	0.00	0				0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer's	s	Power Power				er-50% er-50%				0.542 0.451	Power Power				er-50% er-50%		P-value P-value		0.732 0.500	Power Power				r-50% r-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2	5 6 5 6	0.00 0.00 0.00 0.00 2.50	0.00 0.00 0.00 0.00 2.50	6 4	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0 - 0 - 0 -	0	1.000	5 5 6 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0 - 0		1.000 1.000 1.000 1.000	5 5 6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0,00 00.0 00.0 00.0	0.00 0.00 0.00 0.00) .	- o - o	1.000 1.000 1.000 1.000
Habitat Mea	ins		0.50	0.50)	0.00	0.0	0	+			0.00	0.00		0.00	0.00	0)			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer's		Power Power				er-50% er-50%				0.536 0.425	Power Power				er-50% er-50%		P-value P-value		0,732 0.500	Power Power				c-50%				0.732 0.500
4825C/1424 483C/453 601C/601 598C/598 1322C/1522 Habitat Mea	3 3	5 4 5 4 6	17.00 0.00 25.50 33.75 0.00	14.56 0.00 14.76 13.09 0.00	3 3 3 5 5	0.00 5.00 6.67 2.00 0.50	0.0 3.5 6.6 2.0 0.5	4 - 7 - 0 -	- + •	0.202 0.205 0.433 0.035 0.374	5 4 5 4 6	0.50 0.00 0.00 0.00 0.00	0.50 0.00 0.00 0.00 0.00	4 3 5 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	- + - 0 - 0 - 0	• :	0.374 1.000 1.000 1.000 1.000	5 4 5 4 6	0.50 0.00 0.00 0.00 0.00	0.50 0.00 0.00 0.00 0.00	4 3 5 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) -	- 0	0.374 1.000 1.000 1.000
Fisher's Stouffer'		Power Power	0.04	_	Pow	er-50% er-50%	0.100	P-va		0.090 0.128	Power Power			Powe	er-50%		P-value P-value			Power Power		_	Power	r-50% r-50%		P-v	a_ue	0.542 0.451

(a) Kormmennia. Monostroma, J1Va and Ulvaria.
x At least one site pair p-valva < 0.100 in opposite direction of overall tasts.</p>
y Direction of difference between behinds means is different than direction of overall tests.
z Only one site pair.

Table 3-5:248. Page 1. December 15, 1994

		1	Morpholog	gical G	roup:	Fine l	Filament	ous G	reer	18			A¢:	rosip	honia sp.	(A)					Che	aetomor	pha/R	hizoclon	ium (A)	(a)		
Site Pair	Mvd	N	С	SE	N	٥	SE	ÇV	D	P	N	С	SE	N	0	SE	CV	D	P	N	С	SE	N	О	SE	ÇV	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1	6 6 6 6	0.00 0.00 0.00 0.00	00.00 00.00 00.0 00.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0 - 0 - 0 -	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	00000	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mean	ns		0.00	0.00		0.00	0.0	0	Q			0.00	0.00		0.00	0.00		O			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		ower?			Power Power			P-val		0.732 0.500	Power Power				r-50% r-50%		-vai -val		0.732 0.500	Power Power				r-50% r-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	6 5	0.00 0.00 0.00 0.00 2.50	0.00 0.00 0.00 0.00 2.50	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0 – 0 – 0 –	0	1.000 1.000 1.000 1.000 0.363	5 6 5 6	0.00 0.00 0.00 0.00 2.50	0.00 0.00 0.00 0.00 2.50	5 6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0 0	1.000 1.000 1.000 1.000 0.363	5 6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000
Habitat Mean	ns		0.50	0.50		0.00	0.00	3	+			0.50	0.50		0.00	0.00		+			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power			Power Power					0.536 0.425	Power Power				r-50% r-50%		-val:		0.536 0.425	Power Power				r-50% r-50%		-val -val		0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3	4 5	16.50 0.00 25.50 33.75 0.00	14.65 0.00 14.76 13.09 0.00	4 3 5	0,00 5.00 6.67 2.00 0,50	0.00 3.5 6.6 2.00 0.5	4 – 7 – 0 –	+ + + + -	0.217 0.205 0.433 0.035 0.374	5 4 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	3 4 3 5 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	00000	1.000 1.000 1.000 1.000	5 4 5 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0	1.000 1.000 1.000 1.000
Habitat Mear	ns		15.16	8.52		2.84	2.5	4	+			0.00	0.00		0.00	0.00		O			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power	0.045		Power Power			P-val		0.094 0.129	Power Power				r-50% r-50%		e-valu		0.732 0.500	Power Power				c-50% c-50%		-val		0.732 0.500

 ⁽a) Genera not separated.
 x At least one site pair p-value < 0.130 in opposite directivn of 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. Algal Percent Cover. Chlorophyta. Prince William Sound. Sheltered Rocky. August 1993. Cleared May 1991. (Continued.)

			C1	adophora	a sp.	(AE)						Ų1	othri	х ар. (2	AE)		_				τ	drospo	ra sp. (2	AB)			
Site Pair M	vd N	С	SE	N	0	SE	CV	D	P N	G	SE		N	0	SE	CA 1	3	P	N	С	SE	N	0	SE	cv	D	P
4825C/1424 453C/453 601C/601 598C/598 1\$22C/1522	1 6 1 6 1 6 1 6 1 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	-	0 1.	000 6 000 6 000 6 000 6	0.0 0.0 0.0 0.0	0 0 0 0 0 0	.00	5 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c - c - c - c	5	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000 1.000
Habitat Means		0.00	0.00		0.00	0.00		0		0.0	0 0.	.00		0.00	0.00	C)			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Power Power			Power-5 Power-5			-val		732 Pow 500 Pow				ower-			-value -value		0.732 0.500	Power Power				r-50% r-50%				0.732 0.500
453C/453 601C/601 598C/598	2 5 2 5 2 6 2 5 2 6	0.00 0.00 0.00 0.00	0.00 0.00 00.0 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- -	o 1. o 1. o 1.	000 5 000 5 000 6 000 5 000 6	0.0 0.0 0.0 0.0	0 0. 0 0. 0 0.	.00	4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0))	1.000 1.000 1.000 1.000	5 6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0	1.000 1.000 1.000 1.000
Habitat Means		0.00	0.00		0.00	0.00		0		0.0	0 0	.00		0.00	0.00	c	>			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Power Power			Power-5 Power-5			e-valu e-valu						Power-			-value -value		0.732 0.500	Power Power				r-50% r-50%				0.732 0.500
4825C/1424 4\$3C/453 601C/601 598C/598 1\$22C/1522	3 5 3 4 3 5 3 4 3 6	16.50 0.00 25.50 33.75 0.00	14.65 0.00 14.76 13.09 0.00	4 3 5	0.00 5.00 6.67 2.00 0.50	0.00 3.54 6.67 2.00 0.50	-	- 0. + 0. + 0.	217 5 205 4 433 5 035 4 374 6	0.0 0.0 0.0 0.0	0 0.	.00	3 4 3 5 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	- 0 - 0 - 0 - 0		1.000 1.000 1.000 1.000	5 4 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000
Habitat Means		15.16	8.52		2.84	2.54		+		0.0	0 0.	.00		0.00	0.00	C	>			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Power Power			Power-5			-valı						Power-			-value -value			Power Power				r-50% r-50%	<u>1</u>			0.732 0.500

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

Table C 5.248. Page 3. December 15, 1994

		Mo	rphologic	al Gr	onD:	Tubular a	and Sa	cate	Gre	ens		Bl	idingi	a/Ent	eromorph	(AE) (a)											_
Site Pair	Mvd	N	С	SE	N	٥	SE	ĊV	Đ	P	N	С	SE	N	0	SE	CV I	D	P	N	С	Se	N	0	8E	(ם עט	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	1.00 0.00 0.00 0.00 0.00	1.0 0.0 0.0 0.0) -) -	0 0	0.374 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	1.00 0.00 0.00 0.00 0.00	1.00 0.00 0.00 0.00 0.00	- 6	0	0.374 1.000 1.000 1.000 1.000	<u>.</u>								
Habitat Mea	ns		0.00	0.00		0.20	0.2)	-			0.00	0.00		0.20	0.20		-										
Fisher's Stouffer'	ŝ	Power Power				r-50% r-50%				0.542 0.451	Power Power				r-50% r-50%		-value		0.542 0.451	Power Power			Power Power				value value	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0) -) -	0	1.000 1,000 1.000 1.000 1.000	5 6 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0	0	1.000 1.000 1.000 1.000 1.000									
Habitat Mea	ns		0.00	0.00		0.00	0.00)	0			0.00	0.00		0.00	0.00		O										
Fisher's Stouffer'	s	Power Power				r-50% r-5.0%				0.732 0.500	Power Power				r-50% r-50%		-value -value			Power Power			Power Power				value value	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0,00 0.00 0.00 0.00 0.00	0.00) -) -	0	1.000 1.000 1.000 1.000	5 4 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c	0	1.000 1.000 1.000 1.000									
Habitat Mea	ns		0.00	0.00		0.00	0.0)	Ð			0.00	0.00		0.00	0.00	(0										
Fisher's Stouffer'	s	Power Power	 			er-50% er-50%	-			0.732 0.500	Power Power				r-50% r-50%		-value			Power Power			Power Power				value value	

⁽a) Genera not separaced.

x At least one site pair p-value < 0.100 in opposite direction of overall tests. y Direction of difference between habitat means is different than direction of overall tests. 2 Only one site pair.

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.

	FEIT AND A											Morp	hologi	cal 0	Foup: 1	Bladed Br	OWNE					Tota	Fuc	us gardn	eri (P)			
Site Pair	Mvd	N	С	SE	N	٥	SE	cv	D	P	N	c	SE	N	0	9E	CV .	D	P	N	С	SE	N	0	SE		CV D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6 6 6	16.25 35.00 1.25 0.42 15.42	7,38 14,33 0,85 0,42 11,09	6 6	3.50 14.58 15.42 1.67 46.67	3.50 12.15 15.42 1.67 21.01	-	÷ -	0.106 0.211 0.519 0.659 0.288	6 6 6 6	16.25 35.00 1.25 0.42 15.42	7.38 14.33 0.85 0.42 11.09	6 6	3.50 14.58 15.42 1.67 46.67	3.50 12.15 15.42 1.67 21.01	- -	<u>-</u> -	0.106 0.211 0.519 0.659 0.288	6 6 6 6	16.25 35.00 1.25 0.42 15.42	7.38 14.33 0.85 0.42 11.09	6 6	3.50 14.58 15.42 1.67 46.67	3.50 12.15 15.42 1.67 21.01	5 2 7	- + - + 	0.106 0.211 0.519 0.659 0.288
Habitat Mea	ns		13.68	6.82		16.38	10.76		-			13.68	6.82		16.38	10.76		-			13.68	6.82		16.38	10.76	5	-	
Fisher's Stouffer'	5	Power Power	0.012		Power		0.495 0.649	P-vai P-vai		0.520 0.570	Power Power	0.011			r-50% r-50%		P-valu P-valu		0.520 0.570	Power Power	0.01			±-50% ±-50%			value value	0.520 0.570
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2	6 5	52.00 43.50 19.58 11.00 49.17	19.74 11.28 12.61 8.61 16.63	6 4 5	25.00 5.00 40.63 18.00 72.08	13.44 2.66 17.33 13.91 16.49	-	÷ -	0.215 0.018 0.320 0.739 0.390	55656	52.00 42.50 19.58 11.00 49.17	19.74 11.07 12.61 8.61 16.63	6 4 5 6	25.00 5.00 40.63 18.00 72.08	13.44 2.66 17.33 13.91 16.49	- - -	<u>-</u> -	0.215 0.018 0.320 0.739 0.390	5 6 5 6	52.00 42.50 19.58 11.00 49.17	19.74 11.07 12.61 8.61 16.63		25.00 5.00 40.63 18.00 72.08	13.44 2.66 17.33 13.91 16.49	6 3 1	- +	0.215 0.018 0.320 0.739 0.390
Habitat Mea Fisher's Stouffer'		Power Power	35.06 0.085 0.025		Power			P-val P-val		0.516xy 0.778	Power Power	0.084	13.74	Powe	r-50%	0.510	P-valu P-valu		0.516xy 0.775	Power Power	0.08	1		r-50% r-50%	0.503	2-	value value	0.516xv 0.775
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3		67.00 70.63 26.00 38.75 53.33	16.72 17.00 14.78 1.61 18.50	3 4 3 5	63.33 30.00 69.17 76.50 51.00	13.10 19.45 30.83 17.92 15.42	- - -	-	0.727 0.149 0.137 0.102 0.874	5 4 5 4 6	67.00 70.63 26.00 38.75 53.33	16.72 17.00 14.78 1.61 18.50	4 3 5	62.50 30.00 69.17 76.50 51.00	13.92 19.45 30.83 17.92 15.42	-	-	0.709 0.149 0.137 0.102 0.874	5 4 5 4 6	67.00 70.63 26.00 38.75 53.33	16.72 17.00 14.78 1.61 18.50	4 3 5	62.50 30.00 69.17 76.50 51.00	13.92 19.45 30.83 17.92 15.42	5 3 2 2	- · · · - · · · · · · · · · · · · · · ·	0.709 0.149 0.137 0.102 0.874
Habitat Mea	ıns		51.14	13.72		58.00	19.34		+			51.14	13,72		57.84	19.50		٠			51,14	13.72		57.84	19.50	0	+	
Fisher's Stouffer'	s	Power Power			Power Power					0.521 y 0.778	Power Power	0.067 0.038			er-50% er-50%		P-valu P-valu		0.516 y 0.777	Power Power	0.06 0.03			er-50% er-50%				0.516 y 0.777

x At least one site pair p-velue < 0.100 in opposite direction of oversi, teats, y Direction of difference between habitat means is different than direct;m of overall tests, z Only one site pair.</p>

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		Ad	ult Fu	cus ga	rdneri	(F) (> 2	cm)			Juven	ile Fu	cus	gardneri	(P) (<=	2cm)					Fue	cus St	ipes (P)	(a)		
Site Pair Mv	d M	с	SE	N	٥	SE	CA D	P	N	С	SE	N	O	SE	CV I	D	P		-			-		2	
453C/453 1 601C/601 1	6 6 6 6	16.25 35.00 0.42 0.00 15.42	7.38 14.33 0.42 0.00 11.09	6 6 6	3.50 14.58 15.42 1.67 46.67	3.50 12.15 15.42 1.67 21.01	- + 	0.423	6 6 6 6	0.00 0.00 0.83 0.42 0.00	0.00 0.00 0.83 0.42 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 + +	1.000 1.000 0.363 0.363 1.000	6666	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	0 - 0	1.000
Habitat Means		13.42	6.64		16.38	10.7€	-			0.24	0.24		0.00	0.00		+			0.00	0.00		0.00	0.00		
Fisher's Stouffer's	Power			Power Power			P-value P-value		Power Power				er~50% er-50%		P-valu		0.359 0.180	Power Power			Power			?-value ?-value	
601C/601 2 598C/598 2	5 5 6 5	44.50 42.50 19.58 11.00 48.75	16.59 11.07 12.61 8.61 16.82	6 4 5	25.00 2.50 40.63 18.00 72.08	13.44 2.50 17.33 13.91 16.49	- · 	0.007 0.320 0.739	55656	7.50 0.00 0.00 0.00 0.42	7.50 0.00 0.00 0.00 0.42	6 4 5	0.00 2.50 0.00 0.00 0.00	0.00 0.91 0.00 0.00		0	0.374 0.029 1.000 1.000 0.363	5 6 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0 - 0 0 - 0 0 - 0	1.000
Habitat Means		33.28	13,14		31.64	12.72	-			1.58	1.58		0.50	0.18		+			0.00	0.00		0.00	0.0	0 0	
Fisher's Stouffer's	Power Power			Power Power				0.505 _{xy} 0.820	Power Power	0.000			er-50% er-5 0 %		P-valu P-valu		0.479× 0.801	Power Power			Power Power			P-value P-value	
601C/601 3 598C/598 3	5 4 5 4 6	64.00 70.63 21.00 38.75 53.33	18.65 17.00 14.00 1.61 18.50	4 3 5	62.50 28.75 69.17 76.50 51.00	13.92 18.21 30.83 17.92 15.42	- 4 	0.126	5 4 5 4 6	3.00 0.00 5.00 0.00 0.00	3.00 0.00 5.00 0.00 0.00	4 3 5	0.00 1.25 0.00 0.00 0.00	0.00 1,25 0.00 0.00 0.00	-		0.374 0.391 0.374 1.000	5 4 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0 - 0 0 - 0 0 - 0	1.000 1.000 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	0.0	0 0	
Fisher's Stouffer's	Power			Power Power			P-value P-value	0.514 y 0.778	Power Power				er-50% er-50%		P-valu P-valu		0.448 0.550	Power Power			Power Power			P-value P-value	

⁽a) Dead Purus plants or stipes without blades. x At least one site pair p value < 0.300 in opposite direction of overall twats. y Direction of difference between babitat seams is different than direction of overall tests. 2 Only one site pair.

Table C-5,249. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. August 1993. Cleared May 1991. (Continued.)

	Petalonia/Pur ir Myd N C SE N					Punctaria	(AE)	(b)				Mo	orphologic	cal Gr	oup:	Coarse F	'ilament	ous B	STOW	vng			D1	ctyos	iphon sp.	(A)			
Site Pair M	tvd	N	С	SE	N	0	SE		cv	ם	P	N	С	SE	N	0	SE	ÇV	Þ	P	N	С	SE	N	0	SE	cv	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0. 0. 0.	00 00 00	-	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	00000	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0 0	1.000 1.000 1.000 1.000 1.000
Habitat Means	3		0.00	0.00		0.00	0.	00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power				er-50% er-50%			valı		0.732 0.500	Power Power				er-50% er-50%		P-val: P-val:		0.732 0.500	Power Power				r-50% r-50%		P-val P-val		0.732 0.500
453C/453 601C/601 598C/598	2 2 2	5 5 6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0. 0. 0.	00 00 00	-	0 0 0	1.000 1.000 1.000 1.000	5 6 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000 1.000	55656	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000
Habitat Means	3		0.00	0.00		0.00	0.	00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power				er-50% er-50%			val:		0.732 0.500	Power Power				er-50% er-50%		P-val: P-val:		0.732 0.500	Power Power				r-50% r-50%				0.732 0.500
453C/453 601C/601 598C/598	3 3 3 3	5 4	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0. 0. 0. 0.	00 00 00	-	0 0	1.000 1,000 1.000 1.000 1.000	5 4 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000 1.000	5 4 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	000	1.000 1.000 1.000 1.000 1.000
Habitat Means	3		0.00	0.00		0.00	ο.	0.0		Ó			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power				er-50% er-50%					0.732 0.500	Power Power				er-50% er-50%		P-val: P-val:		0.732 0.500	Power Power				r-50% r-50%		P-val P-val		0.732 0.500

(b) Genera not separated.

x At least une site pair p value < 0.100 in opposite direction of overall tests.</p>
y Direction of difference between habitat magnetic different than direction of overall tests.
c Only one site pair.

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

2 Only the site	Myelophycus/Sir Myd N C SE N					>			_					47	B		_		_			T	- (57)	11					
			Му	eloph	ycus	/Scytomipho	on (A)	(a)				forpholog	icai G	roup:	: Fine F	ilamento	JE BIO	WIN			r	ine Fil	ement.	ous Brown	B (AB)	-			
ite Pair	Mvc	d N	С	SE	N	o	SE	CV	D	P	N	С	9B	N	0	SE	CA E	•	P	N	С	SE	N	٥	SE		CV I		P
825C/1424 53C/453 01C/601 98C/598 522C/1522	1 1 1 1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0 6 0 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) –) –	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0 - 0		1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0 0 0	- «	o 1	1.000 1.000 1.000 1.000 1.000
abitat Mea	ıns		0.00	0.00)	0.00	0.00)	0			0.00	0.00		0.00	0.00	c	•			0.00	0.00		0.00	0.00	J	(5	
Fisher's Stouffer'	s	Power Power				ver-50% ver-50%				0.732 0.500	Power Power				r-50% r-50%		P-value P-value		0.732 0.500	Power Power				r-50% r-50%					0.732 0.500
825C/1424 53C/453 01C/601 98C/598 522C/1522	2	5 5 6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0 6 3 4 0 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00) –) –	000	1.000 1.000 1.000 1.000 1.000	5 5 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0 - 0	5	1.000 1.000 1.000 1.000 1.000	5 6 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0	- 6	o 1	1.000 1.000 1.000 1.000 1.000
labitat Mea	ins		0.00	0.00)	0.00	0.00)	0			0.00	0.00		0.00	0.00	C	>			0.00	0.00		0.00	0.00	j	()	
Fisher's Stouffer'	s	Power Power				ver-50% ver-50%		P-va P-va		0.732 0.500	Power Power				r-50% r-50%		P-value P-value		0.732 0.500	Power Power				r-50% r-50%					0.732 0.500
1825C/1424 153C/453 601C/601 898C/598 .522C/1522	3	5 4 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0 4 0 3 0 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00) -) -	0 0 0	1.000 1.000 1.000 1.000	5 4 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0 - 0		1.000 1.000 1.000 1.000 1.000	5 4 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0	- d) 1) 1	1.000 1.000 1.000 1.000
Habitat Mea	ıns		0.00	0.00)	0.00	0.00)	0			0.00	0.00		0.00	0.00	c	>			0.00	0.00		0.00	0.00)	Ç)	
Fisher's Stouffer'	s	Power Power				ver-50% ver-50%				0.732 0.500	Power Power				r-50%		P-value P-value		0.732 0.500	Power Power				r-50% r-50%					0.732 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. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. August 1993. Cleared May 1991. (Continued.)

			Morph	ologic	cal Gr	oup: Sa	ccate B	сомда				L	eathes	ia/C	olpomenia	(A) (A)		_				sore	ntuer	# TTAOTO	BA (A)			
Site Pair	Mvd	N	С	SE	N	0	SE	CV	D	P	N	C i	ge.	N	0	SE	CA I	D	P	N	С	SE	N	0	SE	C	V D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		00000	1.000 1.000 1.000 1.000 2.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0,00 0,00 0,00 0,00	0.00 0.00 0.00 0.00	- c	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00))	- 0 - 0	1.000 1.000 1.000 1.000
Habitat Means	s		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	(Þ			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer's		Power Power			Power			P-val P-val		0.732 0.500	Power Power	-			r-50% r-50%		P-value P-value		0.732 0.500	Power Power				r-50% r-50%				0.732 0.500
4825C/1424 453C/453 6C1C/601 598C/598 1522C/1522	2 2 2 2 2	6 5	0.00 1.00 0.00 0.00	0.00 1.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	0 + 0 0 0	1.000 0.374 1.000 1.000	55656	0.00 0.50 0.00 0.00	0.00 0.50 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 6	+ 0	1.000 0.374 1.000 1.000	5 5 6 5	0.00 0.50 0.00 0.00	0.00 0.50 0.00 0.00	6 1 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00))		1.000 0.374 1.000 2.000
Habitat Mean:	s		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 Stouffer's		Power Power			Powe:			P-val P-val		0.542 0.319	Power Power				r-50 % r-50%		P-value		0.542 0.319	Power Power				r-50% r-50%				0.542 0.319
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	3 5	0.83 0.00 0.00 0.00 0.00	0.83 0.00 0.00 0.00	-	0000	0.423 1.000 1.000 1.000	5 4 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0,00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c	0	1.000 1.000 1.000 1.000	5 4 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	3 5 5	0.83 0.00 0.00 0.00 0.00	0.83 0.00 0.00 0.00		0 - 0 - 0	0.423 1.000 1.000 2.000
Habitat Mean	s		0.00	0.00		0.16	0.16		-			0.00	0.00		0.00	0.00	1	0			0.00	0.00	1	0.16	0.16	5	-	
Fisher's Stouffer's		Power Power			Powe:	=-50% r-50%		P-val P-val		0.565 0.456	Power Power				r-50% r-50%		P-valu P-valu		0.732 0.500	Power Power				r-50% r-50%				0.565 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, a Only one sale pair.

Table C-5.249. Page 5. Detemper 15, 1994

			Morph	ologic	al Gr	oup: Cru	stose	Brown	8				Ralfs	ia/Pe	troderma	(P) (a)												
ite Pair	Mvd	N	С	SE	N	0	SB	cv	D	P	N	c	SE	N	0	SE	cv	D	P	N	c	SE	N	0	SE	(CA D	P
825C/1424 83C/453 01C/601 88C/598 522C/1522	1 1 1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00 0.00	0.0 0.0 0.0) -) -	0 0 0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0	1.000 1.000 1.000 1.000 1.000				•					
bitat Mea:	ns		0.00	0.00		0.00	0.0)	0			0.00	0.00		0.00	0.00		0										
Fisher's Stouffer's		Power Power			Power					0.732 0.500	Power Power				r-50% r-50%		P-val P-val		0.732 0.500	Power Power				c-50% c-50%			value value	
25C/1424 33C/453 11C/601 18C/598 522C/1522	2 2 2	5 5 6 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0 - 0 - 0 -	0 0	1.000 1.000 1.000 1.000	5 5 6 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	0	1.000 1.000 1.000 1.000 1.000									
bitat Mea	ns		0.00	0.00		0.00	0.0)	Q			0.00	0.00		0.00	0.00		O										
Fisher's Stouffer'		Power Power			Power			P-val P-val	иe	0.732 0.500	Power Power				r-50% r-50%				0.732 0.500	Power Power				c-50% c-50%			value value	
325C/1424 53C/453 01C/601 98C/598 522C/1522	3 3	5 4 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0 – 0 – 0 –	0	1.000 1.000 1.000 1.000	5 4 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000 1.000 1.000									
bitat Mea	ıns		0.00	0.00		0.00	0.0	0	Q			0.00	0.00		0.00	0.00)	0										
Fisher's Stouffer'	s	Power Power			Power	r-50% r-50%				0.732 0.500	Power Power				er-50% er-50%		P-val P-val		0.732 0.500	Power Power				r-50% r-50%			value value	

x At least one site pair p-value c 0.100 in opposite direction of 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. 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	Rhodoph	yta					Mor	pholog	ical	Group:	Bladed E	teds						Bangi	a sp. (Al	E)			
Site Pair M	fvd N	С	SE	N	0	SE	cv	D	P	N	С	SE	N	0	SE	CV	ם	P	N	С	88	N	o	SE	CV	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 6 1 6 1 6 1 6 1 6	0.00 2.92 1.67 1.25 0.00	0.00 1.87 1.67 1.25 0.00	6 6	4.00 0.42 0.00 0.00 0.42	4.00 0.42 0.00 0.00	-	+ + + -	0.374 0.311 0.363 0.363 0.363	6 6 6 6	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		00000		6 6 6 6	0.00 0.00 0.00 0.00	0.00 00.00 00.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		0 0	1.000 1.000 1.000 1.000 1.000
Habitat Means	3	1.18	0.98		0.96	0.96	i	+			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Powe:			Power			P-val P-val		0.330 0.127	Power Power				er-50% er-50%		P-val P-val		0.732 0.500	Power Power			Power					0.732 0.500
453C/453 601C/601 598C/598	2 5 2 5 2 6 2 5 2 6	0.00 3.00 0.00 0.00 0.83	0.00 2.00 0.00 0.00 0.53	6 4 5	5.00 0.00 0.63 0.00 6.67	5.00 0.00 0.63 0.00 6.63	- -	- + - 0	0.374 0.187 0.391 1.000 0.618	5 6 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		0.50 0.00 0.00 0.00 0.00	0.50 0.00 0.00 0.00	-	0 0 0	1.000	5 5 6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	- - - -	0 0	1.000 1.000 1.000 1.000 1.000
Habitat Means	5	0.76	0.50		2.46	2.46		-			0.00	0.00		0.10	0.10		-			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Power Power			Power Power			P-valu P-valu		0.394 0.608	Power Power				er-50% er~50%		P-val P-val		0.542 0.451	Power Power		=	Power					0.732 0.500
601C/601 598C/598	3 5 3 4 3 5 3 4 3 6	1.00 20.00 0.00 0.63 0.00	1,00 16.11 0.00 0.63 0.00	4 3 5	22.50 5.00 0.00 1.00 17.00	10.00 5.00 0.00 1.00 12.83	- - -		0.006 0.431 1.000 0.933 0.155	5 4 5 4 6	1.00 0.63 0.00 0.00 0.00	1.00 0.63 0.00 0.00 0.00	4 3 5	6.67 0.00 0.00 0.50 0.00	5.46 0.00 0.00 0.50 0.00	- - -	- 0 - 0	1.000	5 4 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000
Habitat Means	•	4.32	3.54		9.10	5,7€		-			0.32	0.32		7.44	2.20		-			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Power Power			Power			P-val: P-val:		0.028 0.373	Power Power	0.010 0.004			er-50% er-50%		P-val P-val		0.357 0.342	Power Power			Power					0.732 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 coers only one site pair.

Table C-5,250, Page 1, December 15, 1

				Gigart	inacea	ae Group	(P) (a)					P	a 1 man	ria spp.	(A)				_		Ph:	ycodr	ys riggii	(A)				
Site Pair M	N DV		С	SE	N	0	SE	¢v	D	P	N	С	SE	N	0	SE.	CV	D	P	N	С	ŞE	N	0	SE		CV I)	Р
601C/601 598C/598	1 6 1 6 1 6 1 6		0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0	00 - 10 -	0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000	36666	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00))	- c	1 1	000
Habitat Means			0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00)	c)	
Fisher's Stouffer's	Pow Pow				Power Power			P-va P-va		0.732 0.500	Power Power				er-50% er-50%		P-valu P-valu		0.732 0.500	Power Power				r-50% r-50%			value value).732).500
453C/453 601C/601 598C/598	2 5 2 5 2 6 2 5 2 6	1	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.50 0.00 0.00 0.00 0.00	0.0 0.0 0.0	0 - 10 -	0 0	0.374 1.000 1.000 1.000	5 6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 4 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 1	0	1.000 1.000 1.000 1.000	5 5 5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00))	- c	, 1	000
Habitat Means			0.00	0.00		0.10	0.1	.0	-			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	1	c)	
Fisher's Stouffer's	Pow Pow		-		Power Power			P-va P-va		0.542 0.451	Power Power				r-50% r-50%		P-valu P-valu		0.732 0.500	Power Power				r-50% c-50%			value value		
601C/601 598C/598	3 5 3 4 3 5 3 4 3 6	1	1.00 0.63 0.00 0.00	1.00 0.63 0.00 0.00 0.00	4 3 5	6.67 0.00 0.00 0.50 0.00	5.4 0.0 0.0 0.5	0 -	• 0 -	0.217 0.391 1.000 0.374 1.000	5 4 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	3 4 3 5 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	- :	0	1.000 1.000 1.000 2.000 1.000	5 4 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	l l l	- c	1 1	.000 .000 .000 .000
Habitat Means			0.32	0.32		1.44	1.2	0	-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00	,	c	,	
Fisher's Stouffer's	Pow Pow		0.010 0.005		Power Power					0.357 0.342	Power Power				r-50% r-50%		-value		0.732 0.500	Power Power				r-50% r-50%			value value		

(a) Chondrus, Iridaea, Hastocarpus 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.
2 Dnly one site pair.

Table C-5.250. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. Cleared May 1991. (Continued.)

				1	Porphy	ra sp. ()	A)						Rhod	Ашел	ia pertus	a (A)						Tokida	dendr	on kurile	nsis (A	()		
Site Pair	Mvd	N N	С	SE	N	0	SB	CA	D	P	N	С	SE	n	0	SE	çv	D	P	N	С	ŞE	N	0	SE	C	ם ער	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	_	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		- 0 - 0 - 0	1.000 1.000 1.000
Habitat Mea	r.s		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		٥	
Fisher's Stouffer'	ş	Power Power			Power					0.732 0.500	Power Power				r-50% 50%		-valu -valu		0.732 0.500	Power Power				r-50% r-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000	5 5 6 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000 1.000	5 6 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00)	- 0 - 0 - 0	1.000 1.000 1.000 1.000
Habitat Mea	ins		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00			0	
Fisher's Stouffer'	Ś	Power Power			Power Power			P-val P-val		0.732 0.500	Power Power				er-50% er-50%		-valu		0.732 0.500	Power Power				r-50% r-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	4 5 4	0.00 0.00 0.00 0.00	00.0 00.0 00.0 00.0	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0 0	1.000 1.000 1.000 1.000	5 4 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0 0	1.000 1.000 1.000 1.000	5 4 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	3 5 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		- 00 - 00 - 0	1.000
Habitat Mea	ins		0.00	0.00		0.00	0.00		O			0.00	0.00		0.00	0.00		0			0.00	0.00					0	
Fisher's Stouffer'	ŝ	Power Power			Power Power			P-val P-val		0.732	Power Power				er-50% er-50%		P-valu P-valu		0.732 0.500	Power Power				r-50% r-50%				0.732 0.500

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

Cryptosiphonia woodii (A) Articulate Coralline Algae (A) Morphological Group: Coarse Filamentous Reds CV D SE. P SE CV D P C 9 0 CV D P N C RR N O Site Pair Mvd N C SE 1.000 1,000 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0.0 Q 0.00 0.00 0.00 0 1.000 4825C/1424 0.00 0.00 1.000 0.00 0.00 0.00 0 1.000 0.00 0.00 6 0 0.00 0.00 0.42 0.42 0.363 0.00 0,00 453C/453 6 0.00 1.000 0.00 0.00 0.00 0.00 0.00 0.00 0 1.000 0.00 0 0.00 0.00 0.00 0 1 000 6 601C/601 0.00 6 0.00 0.00 0.00 1,000 0.00 0.00 0 0.00 0.00 0.00 0 1,000 6 0.363 1.25 1.25 0.00 0.00 + 598C/598 6 0.00 1.000 0.00 0.00 0 0.00 0.00 0.00 0 1.000 6 0.00 0.00 0.00 0.00 0.42 0.42 - - 0.363 б 1522C/1522 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.16 0.16 0.26 0.26 Habitat Means Power-50% --- P-value 0.732 0.732 --- P-value 0.441 y Power Power-50% --- P-value Power Power-50% Fisher's Power Power-50% --- P-value 0.500 --- P-value 0.500 Power-50% Power Power-50% --- P-value 0.514 Power Stouffer's Power 0.00 0.00 0.00 0.00 1,000 0.00 0.00 0.00 0.00 0 1.000 1.000 0.00 4825C/1424 0.00 0.00 0.00 - 0 0.00 0.00 0.00 - 0 1.000 0.00 - + 0.187 0.00 0.00 0.00 0.00 - 0 1.000 6 3.00 2.00 6 0.00 0.00 453C/453 5 0.00 - 0 1.000 0.00 0.00 - 0 0.00 0.00 0.00 0.00 0.00 1.000 0.00 0.00 0.63 0.63 - - 0.391 6 6 601C/601 - 0 1.000 0.00 0.00 5 0.00 0.00 0.00 0.00 0.00 O 1.000 0.00 1.000 5 0.00 0.00 0.00 0.00 - Q 5980/598 - 0 0.00 0.00 1.000 0.00 0.00 0.00 0.00 0.00 0.00 0 1.000 0.618 0.53 6.67 6.67 1522C/1522 6 0.83 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 1.46 1.46 Habitat Means 0.76 0.50 Power-50% --- P-value 0.732 --- P-value 0.732 Power 0.065 P-value 0.572 Power Power-50% Power-50% Fisher's Power 0.002 Power-50% --- P-value 0.500 0.065 P-value 0.655 Power Power-50% --- P-value 0.500 Power Power-50% Stouffer's Power 0.000 0.00 0.00 0.00 0.00 1.000 - n 1.000 0.00 4.41 0.040 0.00 0.00 0.00 0.00 0.00 3 11.67 4825C/1424 0.00 1.000 0.00 0.00 0.00 0.00 - 0 1.000 5.00 0.451 0.00 0.00 4 0.00 -0 453C/453 19.38 16.21 5.00 0.00 0.00 0.00 0.00 - o 1.000 1.000 0.00 - 0 0.00 0.00 0.00 0.00 - 0 0.00 1.000 0.00 601C/601 0.00 0.00 0.00 0.00 - o 1.000 1.000 0.00 0.00 - 0 0.374 0.00 0.00 0.00 0.50 0.50 598C/598 0.00 0.00 0.374 0.00 0.00 0.00 0.00 - o 1.000 0.00 0.00 0.50 0.50 16.50 12.34 0.152 0.00 1522C/1522 3 0.00 0.00 0.00 0.00 0.00 0.00 0.10 0.10 4.44 0.00 3.88 3.24 6.74 Habitat Means Power-50% --- P-value 0.732 --- P-value 0.542 Power-50% Power-50% P-value 0.051 Power Fisher's Power --- P-value 0.500 Power-50% --- P-value 0.427 Power Power-50% Power-50% Q,000 P-value 0.191 Power ---0.255

Stouffer's

20wer

Table C 5.250. Page 3. December 15, 1994

 $[\]varkappa$ At least one site pair p-value < 0.100 in opposite direction of overall rasts. 9 Direction of difference between habitat means is different than direction of overall tests. 2 only one site pair.

Table C-5,250. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. Cleared May 1991. (Continued.)

			Endo	cladi	a muricat	a (P)					G1oi	opeltis	furcat	a (A)					N	eorhodo	omela/	/Rhodome	la (P) (a)		
Site Pair My	vđ N	С	ŜE	N	0	SE	ÇV	D P	N	c	SE	N	0	SE	ÇV I	D	P	N	С	SE	N	٥	SE	ÇV	D	P
4825C/1424 1 453C/453 1 601C/601 1 598C/598 1 1522C/1522 1	1 6 1 6 1 6 1 6 1 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0 - 0 - 0 -	o 1.0 o 1.0 o 1.0 o 1.0	00 6 00 6 00 6	0.00 0.00 0.00 1.25 0.00	0.00 0.00 0.00 1.25 0.00	6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0	1 1	1.000 1.000 1.000 0.363 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.42 0.00 0.00 0.42	0.00 0.42 0.00 0.00 0.42	-	0	1.000 0.363 1.000 1.000 0.363
Habitat Means		0.00	0.00		0.00	0.00)	0		0.26	0.26		0.00	0.00		t			0.00	0.00		0.16	0.16		-	
Fisher's Stouffer's	Power Power			Power			P-val					Power- Power-			-value -value		0.536 0.240	Power Power				r-50% r-50%		P-val P-val		0.359 0.251
453C/453 2 601C/601 2 598C/598 2	2 5 2 5 2 6 2 5 2 6	0.00 0.00 0.00 0.00	0.00 0.00 00.0 00.0	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	0 - 0 - 0 -	o 1.0 o 1.0 o 1.0 o 1.0	00 5 00 6 00 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 4 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- (0 1	1.000 1.000 1.000 1.000	5 5 6 5 6	0.00 3.00 0.00 0.00 0.83	0.00 2.00 0.00 0.00 0.53	6 4 5	0.00 0.00 0.63 0.00 6.67	0.00 0.00 0.63 0.00 6.67	-	- 0	1.000 0.187 0.391 1.000 0.618
Habitat Means		0.00	0.00		0.00	0.00	0	0		0.00	0.00		0.00	0.00	(o			0.76	0.50		1,46	1.46		-	
Fisher's Stouffer's	Power Power			Power Power			P-val P-val					Power- Power-			-value		0.732 0.500	Power Power	0,003 0.001		Powe:	5-50% 5-50%		2-val P-val		0.572 0.655
453C/453 601C/601 598C/598	3 5 3 4 3 5 3 4 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00	0 - 0 - 0 -	o 1.0 o 1.0 o 1.0 o 1.0 o 1.0	00 4 00 5 00 4	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- (0 1	1.000 1.000 1.000 1.000 1.000	5 4 5 4 6	0.00 19.38 0.00 0.00	0.00 16.21 0.00 0.00 0.00	4 3 5	8.33 5.00 0.00 0.50 16.00	1.67 5.00 0.00 0.50 12.39	- -	0	0.012 0.451 1.000 0.374 0.160
Habitat Means		0.00	0.00		0.00	0.00	0	0		0.00	0.00		0.00	0.00	(0			3.88	3.24		5.96	3.92		-	
Fisher's Stouffer's	Power Power			Power Power			P-val P-val	ie 0.7 ie 0.5				Power-			-value		0.732 0.500	Power Power	0.263			r-50% r-50%	0.000	P-val P-val		0.025 0.176

(a) Genera NGC separates. **A ** Least une site pair p-value < 0.100 in opposite direction of overall tests. **J Direction of difference between habital means is different than direction of overall reals only one site pair.

Table C-5,250. Page 5. December 15, 1994

				Odon	thalia	i floccos	pa (P)						Ptilot	a/Ne	optilota	(P) (b)					Mo	rpholog	ical (Froup: S	accate 1	Reds		
Site Pair	Mvć	N	С	SE	N	0	SE	СV	D	P	N	С	SE	N	0	SE	ĊΛ	ם	P	N	С	SE	N	O	SE	ĊΫ	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 00.00 00.00 00.00	- - -	0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000
Habitat K ear	ns		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	s	Power Power			Power Power			P-valu P-valu		0.732 0.500	Power Power				r-50% r-50%		-val		0.732 0.500	Power Power				-50% -50%		P-val: P-val:		0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2	5 6 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000 1.000	5 6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- -	0	1.000 1.000 1.000 1.000	5 5 5 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000
Habitat Mean	r.s		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		О			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	s	Power Power			Power Power			P-valu P-valu			Power Power				er-50% er-50%		-valı -valı		0.732 0.500	Power Power			Power Power	:-50% :-50%		P-val: P-val:		0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3	5 4 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000	5 4 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	3.33 0.00 0.00 0.00 0.00	3.33 0.00 0.00 0.00 0.00	-	0	0.423 1.000 1.000 1.000 1.000	5 4 5 4 6	0.00 0.00 0.00 0.63 0.00	0.00 0.00 0.00 0.63 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	0	1.000 1.000 1.000 0.391 1.000
Habitat Mea	ns		0.00	0.00		0.00	0.00		0			0.00	0.00		0.66	0.66		-			0.12	0.12		0.00	0.00		+	
Fisher's Stouffer's	ŝ	Power Power			Power Power			P-valu P-valu			Power Power				r-50% r-50%				0.565 0.456	Power Power			Power Power	-50% -50%		P-val: P-val:		0.550 0.253

⁽b) Genera not separated.

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

Table C-5 250. Algal Percent Cover. Rhodophyta, Prince William Sound, Sheltered Rocky, August 1993, Cleared May 1991, (Continued.)

				Ealoss	ccion	glandifo	Ime (A)					Ha	losac	cion spp.	(A)				_	Morpholo	gical	Group:	Fine F	ilament	ous	Reds	
Site Pair	Mvć	ı N	С	32	N	U	SE	ÇV	ע	P	N	C	25	N	υ	22	CV)	ע	Р	N	C	SE	N	0	SE	CV	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) -) -	00000	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	б б	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- e - e	0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000
Habitat Mear	ns		0.00	0.00		0.00	0.00)	0			0.00	0.00		0.00	0.00	(О			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	S	Power Power			Power			P-val P- v al		0.732 0.500	Power Power				r-50% r-50%		P-value P-value		0.732	Power Power			Power-					0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2 2	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) –) –	00000	1.000 1.000 1.000 1.000	5 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c	0	1.000 1.000 1.000 1.000	5 6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000
Habitat Mean	ns		0.00	0.00		0.00	0.00)	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	s	Power Power			Power Power			P-val P-val		0.732 0.500	Power Power				r-50% r-50%		?-value ?-value		0.732 0.500	Power Power			Power-					0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	5 4 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) -) -	00000	1.000 1.000 1.000 1.000 1.000	5 4 5 4 6	0.00 0.00 0.00 0.63 0.00	0.00 0.00 0.00 0.63 0.00	4 3 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 6	0	1.000 1.000 1.000 0.391 1.000	5 4 5 4	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	2.50 0.00 0.00 0.00 0.00	2.50 0.00 0.00 0.00 0.00	-	0	0.423 1.000 1.000 1.000 1.000
Habitat Mear	ns		0.00	0,00		0.00	0.00)	0			0.12	0.12		0.00	0,00		-			0.00	0.00		0.50	0.50		-	
Fisher's Stouffer's	9	Power Power			Power			P-val P-val		0.732 0.500	Power Power				r-50% r-50%		P-value P-value		0.550 0.253	Power Power			Power-					0.565 0.456

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

y Giraction of difference between pabinar means is different than direction of overall tests.

z Only one site pair.

Polysiphonia/Pterosiphonia (A) (a) Morphological Group: Crustose Reds Crustose Coralline Algae (P) Site Pair Mod N C SE N n Q E CV D P N c SE N Ω SE CV n P N C SE N 0 g P CV D P 4825C/1424 0.00 0.00 0.00 0.00 .000 0.00 0.00 4.00 4.00 0.374 0.00 0.00 0.00 0.00 1.000 5 0 _ 0.00 1.000 0.00 0.00 0.176 453C/453 0.00 0.00 0.00 2.92 1.87 0.00 0.00 0.00 0.00 1.000 6 0 0 0.00 1.000 0.00 0.00 601C/601 ī 0.00 6 0.00 0.00 ō 1.67 1.67 0.363 0.00 0.00 0.00 0.00 1.000 6 - 0 - 0 598C/598 0.00 0.00 0.00 0.00 0 1.000 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 - 0 1.000 1522C/1522 0.00 0.00 0.00 0.00 Q 1.000 0.00 0.00 0.00 0.00 - 0 1.000 0.00 0,00 0.00 0.00 - 0 1.000 0.00 0.00 0.00 0.00 0 0.92 0.72 0.80 0.80 0.00 0.00 0.00 0.00 Hahitat Mesna O Power-50% --- P-value 0.732 0.014 Power-50% 0.015 P-value 0.323 Power-50% Fisher's Power Power Power --- P-value 0.732 Power-50% Power-50% 0.012 P-value 0.211 Stouffer's --- P-value 0.500 Power 0.005 Power Power-50% --- P-value 0.500 Power ---4825C/1424 0.00 0.00 5 0.00 0.00 1.000 0.00 0.00 4.50 4.50 0.374 0.00 0.00 0.00 0 0.00 - 0 1,000 0.00 1.000 0.00 - 0 1.000 453C/453 0.00 0.00 0.00 o 0.00 0.00 0.00 0.00 0.00 0.00 5 - 6 6 б 0.00 - 0 1.000 601C/601 0.00 0.00 0.00 0.00 o 1.000 0.00 0.00 0.00 0.00 - o 1.000 0.00 0.00 0.00 0.00 - 0 1.000 6 598C/598 0.00 0.00 0.00 0.00 O 1.000 0.00 0.00 0.00 0.00 1.000 0.00 0.00 0.00 0.00 - 0 1.000 0 - 0 0.00 0.00 0.00 0.00 1.000 1522C/1522 2 0.00 0.00 O 1.000 0.00 0.00 0.00 0.00 0.00 0.00 - 0 1.000 Habitat Means 0.00 0.00 0.00 0.00 0 0.00 0.00 0.90 0.90 0.00 0.00 0.00 0.00 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 0.00 : 67 4825C/1424 0.00 0.00 3 2.50 2.50 0.423 0.00 1 67 0.423 0.00 0.00 1.67 1.67 - - 0.423 453C/453 0.00 0.00 4 0.00 0.00 - 0 1.000 n an 0.00 0.00 በ በብ - o 1.000 0.00 0.00 0.00 0.00 - o î.000 0.00 0.00 _ 0.00 0.00 - 0 1.000 0.00 0.00 0.00 1.000 5 0.00 - 0 1.000 601C/601 3 5 0.00 3 0 0 00 മെറ D. 00 0.00 0.00 0.00 1.000 0.00 0.00 0.00 0.00 - n 1.000 0.00 0.00 - 0 1.000 598C/598 0.00 O 0.00 0.00 0.00 1522C/1522 3 0.00 0.00 0.00 0.00 0 1.000 0.00 0.50 0.50 0.374 0.00 0.00 0.00 0.00 - 0 1.000 0.00 0.50 0.00 0.00 0.44 0.44 0.00 0.00 Habitat Means 0.00 0.50 0.34 0.34 Power-50% --- P-value 0.565 Power-50% --- P-value 0.388 Power-50% --- P-value 0.565 Fisher's Power Power Power Stouffer's _---Power-50% --- P-value 0.456 Power ___ Power-50% --- P-value 0.384 Power Power-50% --- P-value 0.456 Power

(a) Genera not separated.

table Cab 750 Page 7 Coombon 16 1954

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

Table C-5.250. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. Cleared May 1991. (Continued.)

				Hi1	denb	randia s	p. (P)							Petr	rocelis (P)												
Site Pair	Mvd	1 N	С	SE	N	0	SE	C	V D	P	N	С	SE	N	0	SE	cv	ם	P	N	C	Se	n	0	SE	(CV D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1	6 6 6 6	0.00 2.92 1.67 0.00 0.00	0.00 1.87 1.67 0.00 0.00	6 6	4.00 0.00 0.00 0.00 0.00	4.0 0.0 0.0 0.0	00 00 00		0.374 0.176 0.363 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0	1,000 1,000 1,000 1,000 1,000									
Habitat Meas	ns		0.92	0.72		0.80	0.8	30	4			0.00	0.00		0.00	0.00		Q										
Fisher's Stouffer's		Power Power	0.012 0.006			er-50% er-50%	0.017 0.013		alue alue	0.323	Power Power				er-50% er-50%		e-valu e-valu		0.732 0.500	Power Power			Power Power				value value	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2	5 6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	4.50 0.00 0.00 0.00 0.00	4.5 0.0 0.0 0.0	00 00 00	- 0	0.374 1,000 1.000 1.000 1.000	5 6 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000 1.000									
Habitat Mea	ns		0.00	0.00		0.90	0.9	90	-			0.00	0.00		0.00	0.00		O										
Fisher's Stouffer's	s	Powe≃ Powe≃				er-50% er-50%				0.542 0.451	Power Power				er-50% er-50%		P-valu P-valu		0.732 0.500	Power Power			Power Power				value value	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3	5 4 5 4 6	0.00 0.00 0.00 0.00	0,00 0,00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00 0.50	0.0 0.0 0.0 0.0	00	- 0	1.000 1.000 1.000 1.000 0.374	5 4 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000									
Habitat Mea	⊐s		0.00	0.00		0.10	0.3	10	-			0.00	0.00		0.00	0.00		O										
Fisher's Stouffer's	s	Power Power				er-50% er-50%				0.542 0.427	Power Power				er-50% er-50%		?-valu ?-valu		0.732 0.500	Power Power			Power Power				value value	

 $[\]mathbf{x}$ At least one site pair p-value < 0.30 in opposite direction of overall tests. Y Direction of difference between habitat means is different than direction of overall tests. 2 Only one stroppar.

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.

				Bala	nomorph							L	ottiidae								M	ytilus				
Site Pair Mvd	N	С	SE	N	0	SE	ÇA D	P	N	c	SE	N	0	SE	ÇV	Ď	P	N	c	8E	N	0	SE	,	CV D	P
453C/453 1	6 6	2.08 1.67 1.67 4.58 12.08	1.36 1.67 0.83 3.68	5 6 6 6	21.00 1.25 0.83 0.42 2.08	15.82 1.25 0.53 0.42 2.08	- + - + - +	0.498 0.311	6 6 6 6	0.00 0.00 0.83 0.00 0.00	0.00 0.00 0.83 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 0.363 1.000	6666	0.42 2.50 0.00 0.00	0.42 2.50 0.00 0.00	6 6	0.00 2.08 2.08 1.67 0.42	0.00 1.64 1.64 1.67 0.42	4 7		0.363 0.876 0.204 0.363 0.718
Habitat Means		4.44	3.54		5.12	4.02				0.16	0.16		0.00	0.00		1			0.84	0.84		1.26	1.0€	6	+	
	ower ower	0.114 0.100		Power			P-value P-value	0.259 _Y 0.144	Power Power				er-50% er-50%		-valu		0.536 0.417	Power Power	0.001			c~50% c~50%				0.655 y 0.763
4825C/1424 2 1 453C/453 2 1 601C/601 2 6 598C/598 2 1 1522C/1522 2 6	5 6 5 :	3.50 5.00 4.17 12.50 7.08	2.45 5.00 1.90 8.22 5.72	6	11.00 14.58 1.25 0.50 1.25	5.40 5.34 0.72 0.50 1.25		0.186 0.478 0.070	5 5 6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.63 0.00	0.00 0.00 0.63 0.00	-	0	1,000 1,000 0,391 1,000 1,000	5 5 6 5 6	0.00 1.00 6.25 6.00 5.00	0.00 1.00 4.07 3.76 1.58	6 4 5	0.00 5,42 2.50 3.50 0.83	0.00 4.93 1.02 1.70 0.83	3 2 0		1.000 0.506 0.920 0.739 0.025
Habitat Means		6.45	4,66		5.74	2.64	+			0.00	0.00		0.12	0.12		-			3.66	2.10		2.44	1.68	8		
	ower	0,233		Power		0.572 0.743	P-value P-value		Power Power				er-50% er-50%		-valu		0.550 0.421	Power Power	0.123			r-508 r-50%				0.160 0.346
4825C/1424 3 453C/453 3 601C/601 3 598C/598 3 61522C/1522 3 6	4 5 4	0.00 0.00 1.00 5.62 0.00	0.00 0.00 1.00 5.63 0.00	4	0.00 1.25 0.00 0.00 0.50	0.00 1.25 0.00 0.00 0.50	- ; - ; - ;		5 4 5 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	5 4 5 4	0.00 0.00 0.50 4.37 0,42	0.00 0.00 0.50 4.37 0.42	3 5 5	0.00 5.63 0.00 0.00	0.00 3.29 0.00 0.00	9 0 0	 - +	1.000 0.183 0.374 0.391 0.363
Habitat Means		1.32	1.32		0.36	0.36	+			0.00	0.00		0.00	0.00		0			1.06	1.06		1.12	0.66	6	٠	
	ower			Power Power			P-value P-value		Power Power				er-50% er-50%		-valu -valu		0.732 0.500	Power Power	0.013			c-50% c-50%				0.312 y 0.362

z At least one site pair prvalue < 0.000 in opposite direction of overall tests. y Direction of difference between habitat means is different them direction of overall tests. Only one site pair.

Table C 5.251, Page 1. December 15, 1994

					Nce11	la lamelio	96					_		Li	ttorinidae				_				Mo	ollusca				
Site Pair	Mv	ı N	С	SE	N	0	SE	CA	D	P_	N	c	SE	N	0	88	CV I	D	P	N	c	SE	N	0	88	CV	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	: 1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.50 0.00 0.00 0.00 0.00	0.5 0.0 0.0 0.0	0 - 0 - 0 -	0	0.374 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.42 0.00 0.00	0.00 0.00 0.42 0.00 0.00	6	0.00 0.42 0.42 0.00 0.00	0.00 0.42 0.42 0.00 0.00	- 6	0	1.000 0.363 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000 1.000 1.000
Fisher's Stouffer's		Power Power	0.00	0.00	Powe	0.10 er-50% er-50%	0.1	P-va		0.542	Power Power	0.08	0.08		0.16 er-50% er-50%		-value		0.536 0.315	Power Power	0.00		Power	0.00 c-50% c-50%		P-val		0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2	5 6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.50 0.00 0.00 0.00 0.00	0.5 0.0 0.0 0.0	0 - 0 - 0 -	0	0.374 1.000 1.000 1.000	5 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 6 - 6 - 6	0	1.000 000 1.000 1.000	5 5 6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000
Habitat Mean	ns		0.00	0.00		0.10	0.1	0	-			0.00	0.00		0.00	0.00		3			0.00	0.00		0.00	0.00	1	D	
Fisher's Stouffer's	9	Power Power				r-50% r-50%				0.542	Power Power				er-50% er-50%		-value -value		0.732 0.500	Power Power				-50% -50%				0.732
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3	5 4 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0 -	0	1.000 1.000 1.000 1.000 1.000	5 4 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c	0	1.000 1.000 1.000 1.000 1.000	5 4 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000
Habitat Mean	ns		0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00	(0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	s	Power Power				r-50% r-50%				0.732 0.500	Power Power				er-50% er-50%		-value		0.732 0.500	Power Power			Power Power	-50% -50%				0.732 0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests. y Direction of difference between habitet means is different than direction of overall tests. 2 DHy one site pair.

Table C-5.252. Algal Percent Cover. Substratas. 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.

						Rock								Oi	led Rock						_			sana				
Site Pair	Mvd	N	c	SE	N	0	SE	cv	ם	P	N	С	SE	N	0	SE	cv	D	P	N	c	SE	N	0	SE	ÇV	ם	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1 1		81.25 57.92 94.17 93.75 71.25	7.15 12.19 1.24 3.64 13.15	6 6	70.00 81.25 81.25 96.25 50.42	15.55 11.99 14.83 2.39 20.13	-	-	0.745 0.123 0.552 0.605 0.477	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000
Habitat Mea	ıns		79.70	7.48		75.86	13.0)	+			0.00	0.00		0.00	0.00		0			0.00	0.00)	0.00	0.00		0	
Fisher's Stouffer'		Power Power	0.219 0.137			-50% -50%		P-valu P- v alu		0.603 0.813	Power Power				er-50% er-50%		e-valu e-valu		0.732 0.500	Power Power				r-50% r-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2	6	44.50 47.50 70.00 70.50 35.42	18.53 7.58 11.44 13.59 12.46	6 4 5	58,50 75,00 54,38 78,00 19,17	17.7: 9.2: 17.1: 13.1: 14.7:	: - : -	- •	0.493 0.060 0.453 0.691 0.457	5 6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000 1.000	5 5 5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) 6) 4) 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000
Habitat Mea	ins		53.58	12.72		57.02	14.3	3	-			0.00	0.00		0.00	0.00		0			0.00	0.00	}	0.00	0.00	•	0	
Fisher's Stouffer'	s	Power Power	0.045			r-50% r-50%	0.637 0.720	P-val: P-val:		0.225	Power Power				er-50% er-50%		e-valu e-valu		0.732 0.500	Power Power				r-50% r-50%		P-va P-va		0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3	5 4 5 4	15.00 9.38 47.00 16.88 34.58	12.65 6.49 18.22 6.24 15.28	4 3 5	14.17 53.13 5.83 0.00 31,00	3.63 15.55 5.83 0.00 16.3	- 3 - 3 -	++	0.623 0.034 0.149 0.063 0.701	5 4 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	5 4 5 4 6	0.00 0.00 0.00 0.00 11.67	0.00 0.00 0.00 11.67	3 3	0.00 0.00 18.33 20.50 0.00	0.00 0.00 18.33 18.10 0.00	- - -	-	1.000 1.000 0.423 0.267 0.363
Habitat Mea	ins		24.58	11.78		20.82	8.2	5	-			0.00	0.00		0.00	0.00		0			2.34	2.34	1	7.76	7.28	3	-	
Fisher's Stouffer'	s	Power Power	0.041			r-50% r-50%	0.651	P-vali P-vali		0.084× 0.211	Power Power				er-50 % er-50 %		P-valu P-valu		0.732 0.500	Power Power	0.00			r-50% r-50%				0.414 0.195

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

Table C 5.252. Page 1. December 15, 1994

					Shell	Fragment	•							Water							Zo	stera/	Phyllosp	adix			
Site Pair	Mvd	N	c	3E	н	0	SE	cv	D P	N	С	SE	N	0	SE	cv	Þ	P	Ŋ	С	SE	N	0	SE	CΛ	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 1.000 0 1.000 0 1.000 0 1.000	6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- -	0	1.000 1.000 1.000 1.000 1.000
Habitat Mea	ıns		0.00	0.00		0.00	0.00		-		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	5	Power Power			Power			P-valu P-valu						er-50% er-50%		e-valu e-valu		0.732 0.500	Power Power			Power Power					0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2	5 5 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	1.000 0 1.000 0 1.000 0 1.000 1.000	5) 6) 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0	1.000 1.000 1.000 1.000	5 6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) -) -	0	1.000 1.000 1.000 1.000 1.000
Habitat Mea	ars		0.00	0.00		0.00	0.00		0		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer'		Power Power			Power Power			P-valu P-valu						er-50% er-50%		-valu		0.732 0.500	Power Power			Power Power					0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	5 4 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 1.00 0 1.00 0 1.00 0 1.00 0 1.00) 4) 5) 4	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000 1.000 1.000	5 4 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) -) -) -	0 0	1.000 1.000 1.000 1.000 1.000
Habitat Mea	ans		0.00	0.00		0.00	0.00		0		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer'	′ ส	Power Power			Power Power				e 0.73 e 0.50					er-50% er-50%		P-valu P-valu		0.732 0.500	Power Power			Power Power					0.732 0.500

 $[\]times$ At least one site pair p-value < 3.180 in opposite direction of overall tests. y Direction of difference between habital means is different than direction of overall tests. z Only one site pair.

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

		_			Sa	nd and Mud	1							Tota	1 Substr	ate											
Site Pair	Mvđ	l M	с	SE	N	0	SE	CA	D	P	N	С	SE	N	0	SE	ÇV I	b	P	N	С	SE	N	0	SE	ÇV D	P
453C/453 601C/601 598C/598	1 1 1 1 1	6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0 0 0	1.000 1.000 1.000 1.000	6 6 6 6	81.25 57.92 94.17 93.75 71.25	7.15 12.19 1.24 3.64 13.15	6 6	70.00 81.25 81.25 96.25 50.42	15.55 11.99 14.81 2.39 20.17	- 1	- !	0.745 0.123 0.552 0.605 0.477						-		
Habitat Mean	5		0.00	0.00	•	0.00	0.00	,	0			79.70	7.48		75.86	13.00											
Fisher's Stouffer's		Power Power				er-20#				0.732 0.500	Power Power	0.218			er-50%	0.959 0.979	P-value P-value		0.603 0.813	Power Fower			Power Power			-value -valuc	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	5 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- -	000	1.000 1.000 1.000 1.000	5 6 5 6	44.50 47.50 70.00 70.50 35.42	18.53 7.58 11.44 13.59 12.46	6 4 5	58.50 75.00 54.38 78.00 19.17	17.71 9.22 17.15 13.10 14.70		+	0.493 0.060 0.453 0.691 0.457								
Habitat Means	s		0.00	0.00		0.00	0.00		0			53.58	12.72		57.02	14.38	-	-									
Fisher's Stouffer's		Power Power				er-50% er-50%				0.732 0.500	Power Power	0.049 0.016			er-50% er-50%		P-value P-value		0.225 0.142	Power Power			Power Power			-value -value	
601C/601 598C/598	3 3 3 3		0.00 0.00 0.00 0.00 11.67	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 18.33 20.50 0.00	0.00 0.00 18.33 18.10 0.00	-	0	1.000 1.000 0.423 0.267 0.363	5 4 5 4 6	15.00 9.38 47.00 16.88 46.25	12.65 6.49 18.22 6.24 18.66	4 3 5	14.17 53.13 24.17 20.50 31.00	3.63 15.59 24.17 18.10 16.31	 		0.623 0.034 0.374 0.886 0.445								
Habitat Means	S		2,34	2.34		7.76	7.28					26.92	12.46		28.60	15.56	-	-									
Fisher's Stouffer's		Power Power	0.000			er-50% er-50%				0.414 0.195	Power Power	0.051 0.018			er-50% er-50%	0.495 0.632				Power Power		u -	Power Power			-va_ue -va_ue	

x At least one site pair p-value < 0.100 in opposite direction of overall tests.</p>
y Direction of difference between habital means is different than direction of overail tests.
2 Orly one site pair.

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,

Algal Divergity Index (a) Algai Taxa Richness (b) Total Alose Mvd N SE SE CV D P N c SE SE CV D P N C SE N О SE ÇV D Site Pair C 0 0 Þ 506C/506 0.00 0.00 0.33 0.33 2.50 2.50 1598C/1598 0 0 0 --0 846C/846 Q ----0 ___ ---0 --0 -----0 --1650C/1650 1 n _ _ n --n -n 0 0 Habitat Means 0.00 0.00 0.33 0.33 2.50 2.50 --- P-value Power-Sha --- P-value --- P-value Fisher's Power ---Power-50% ---Power _ - ----Power Power-50% Power-50% ---Power-50% --- P-value --- P-value Power-50% Stouffer's Power Power ---Power ___ P-value 506C/506 0.09 O 0 0.09 1.33 0.33 3 4.17 1.67 2 1598C/1598 ------n ----0 ---0 846C/846 0 ----- -- ---0 -----1650C/1650 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-50% --- P-value Stouffer's Power ---Power-50% P-value Power Power-50% P-value Power ---Power-50% P-value 0.07 ß 2 1.00 506C/506 2 0.07 -----2.00 2 35.00 30.00 1598C/1598 a --Λ ---O . . --0 ----n 846C/846 -0 ---n --_ ---ß --O. ---n -----0 1650C/1650 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 Power-50% Stouffer's Power Power-50% P-value Power --- P-value Power Power-50% P-value

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

At least one size 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 5.253. Page 1. December 15, 1994

			To	tal I	qvertebra	tes						Rock							Pere	nnials (F)		
Site Pair M	vd N	c	SE	N	0	SE	מ שס	P	N	c	38 1	T 0	SE	CA D	P	N	c	SE	N	0	SE	CV D	P
506C/506 1598C/1598 846C/846 1650C/1650	1 0 1 0 1 0 1 0	 	 	0	0.00 	0.00	- - -	 	0 0 0	 	:	97.50 3 3 5	2.50	_	 	0 0 0		 	- ŏ	0.00	0.00	-	
Habitat Means					0.00	0.00						97.50	2.50						-	0.00	0.00		
Fisher's Stouffer's	Power Power			Power Power			-value -value		Power Power			ower-50% ower-50%		P-value P-value		Power Power				-50% -50%		P-value P-value	
1598C/1598 846C/846	2 0 2 0 2 0 2 0	 	 	0	2.50 	1.44	- - -		0 0 0	 	; !	93,33))	2.20 	-		0 0 0			- 0	1.67	1.67	-	
Habitat Means					2.50	1.40						93.30	2.20						-	1.70	1.70		
Fisher's Stouffer's	Power Power			Power Power			P-value P-value		Power Power			ower-50% ower-50%		P-value P-value		Power Power				:-50% :-50%		P-value P-value	
506C/506 1598C/1598 846C/846 1650C/1650	3 0 3 0 3 0 3 0	 	 	0	11.25	6.25	- - -		0 0 0	 	!	53.75	23.75 	-		0 0 0	 		· 0	30.00	30.00	_	
Habitat Means					11.30	6.30						53.80	23.80							30.00	30.00		
Fisher's Stouffer's	Power Power			Power Power			-value -value		Power Power			ower-50% ower-50%		P-value P- v alue		Power Power			Power Power			P-value P-value	

x At least one site pair p value < 0.100 th apposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
2 Daly one site pair.

Table C-5,253. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Coarse Textured. July 1991. Cleared September 1989. (Continued.)

					Ann	ials (A)							gbpen	erals (Al	3)											_
ite Pair	Mvd !	N	C £	BE	N	0	SE	CV D	P	N	С	SE	n	О	SE	GA D	P	N	С	SE	N	0	SE	¢v :	D	P
06C/506 598C/1598 846C/846 650C/1650	1 0	0			-	2.50	2.50	-		0 0 0	 		0 0	0.00	0.00	-										
abitat Meas Fisher's Stouffer's	P	ower			Power Power			P-value P-value		Power Power			Powe	r-50% r-50%	1 1	P-value P-value		Power Power			Power			P-valu P-valu		
506C/506 1598C/1598 846C/846 1650C/1650	2 2 2 2	0			0	2.50	0.00	-		0 0 0			- 0	0.00	0.00	-										
Mabitat Mea Fisher's Stouffer'	Þ	ower			Powe:	2.50 r-50% r-50%		P-value P-value		Power Power			Powe Powe	0.00 x-50% x-50%		P-valuc P-value		Power			Power Power			P-valu P-valu		
506C/506 1598C/1598 346C/846 1650C/1650	3	0 0 0	 		0 0	5.00	0.00	-		0 0 0		-	- 0 - 0 - 0	1.25	1.25	-										
Habitat Mea	P	ower			Powe	5,00 r-50% r-50%		P-value P-value		Power Power			Powe	50 er-50% er-50%		P-value P-value		Power Power			Power Power			P-valu P-valu		

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

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 ciled site pairs. MVD = meter vertical drop; N sample size; C = control mean; O = ciled 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	Chlorophy	yta				Morph	ological	Group: B	laded Gr	eens				Blad	ed Greens ()	AE) (a)	
Site Pair	Mvd N		c	SE	N	0	SE	CV D	P	N	С	SE N	0	SE	CV D	Þ	N	C	SE	N O	SE CV D	Р
506C/506 1598C/1598 846C/846 1650C/1650	1 0 1 0 1 0		 	-	- 0	0.00	0.00 	- - - -		0		3 0 0	0.00	0.00	_		0 0 0	 		3 0.00 0 0 0	0.00 -	
Habitat Mean Fisher's Stouffer's	Po	wer wer		-	Powe	0.00 er-50% er-50%		P-value P-value		Power Power			0,00 wer-50% wer-50%		P-value P-value		Power Power			0.00 Power-50% Power-50%	0.00 P-value P-value	
506C/506 1598C/1598 846C/846 1650C/1650	2 0 2 0 2 0 2 0	j	 	-	- 3 - 0 - 0 - 0	0.00	0.00	-		0 0	 	3 0 0	0.00 	0.00	_		0 0 0	 		3 0.00 0 0	0.00	
Habitat Mea Fisher's Stouffer'	Po	ower			Powe	0.00 er-50% er-50%		P-value P-value		Power Power			0.00 wer-50% wer-50%		P-value P-value		Power Power			0.00 Fower-50% Power-50%	0.00 P-value P-value	
506C/506 1598C/1598 846C/846 1650C/1650	3 (3 (3 (3 (0	=======================================	-	- 2 - 0 - 0	1.25 	1.25			0 0 0		2 0 0	0.00	0.00	-		0 0 0	 	 	2 0.00 0 0	0.00 -	
Habitat Mea Fisher's Stouffer'	Pe	ower ower				1.30 er-50% er-50%		P-value P-value		Power Power			0.00 wer-50% wer-50%		P-value P-value		Power Power	 		0.00 Power-50% Power-50%	0.00 P-value P-value	

(a) Rormmannia, Monostrora, Ulva and Ulvaria. x At least one site pair p-value < 0.100 in opposite direction of overall tests. y Direction of difference between Mabitat means is different than direction of overall tests. 2 Dnly one site pair.

Morphological Group: Fine Filamentous Greens C SE N SE ÇV D P ¢ SE 0 SE CV D P CV D SE P Site Pair Mvd N С SE 0.00 0.00 0.00 0.00 0.00 0.00 506C/506 --0 -------0 - --1598C/1598 n --Λ. --___ --۵ - ----------846C/846 0 --0 Ó --0 ---------_ -0 1650C/1650 0 ---- 0 0.00 0.00 0.00 0.00 0.00 0.00 Habitat Means Power-50% --- P-value Power-50% P-value Power ---Power-50% --- P-value Power Fisher's Power ---Power-50% P-value ---Power Power-50% P-value Power-50% P-value ---Power Stouffer's Power 0.00 3 0.00 0.00 0.00 0 --0.00 n 0.00 n 506C/506 ----0 -----0 -n ___ 1598C/1598 2 0 --__ n _ _ --0 ----0 ----n 846C/846 Ω ----0 _ _ ---Ð 0 ---Ð 1650C/1650 Ω 0.00 0.00 0.00 0.00 0.00 0.00 Habitat Means Power-50% --- P-value Power-50% --- P-value Power --- P-value Power Power-50% ---Fisher's Power Power-50% --- P-value _ _ _ Power Power-50% --- P-value Power. ---Power-50% --- P-value Power Stouffer's 2 0.00 0.00 ---0.00 0.00 506C/506 2 1.25 1.25 ---0 --0 -------0 1598C/1598 Ó ----0 - ------0 ------------0 ___ n 846C/846 0 ---n ----- 0 --------0 1650C/1650 3 0 --0 a.na 0.00 0.00 0.00 1.30 1.30 Habitat Means

Power-50%

Power-50%

--- P-value

--- P-value

Power

Power

Acrosiphonia sp. (A)

Stouffer's

Power

Power

Fisher's

(a) Gamera not esparated. x ht least one size pair p-velue < 0.100 in opposite direction of overall tests x y Direction of difference centween habitat means is different than direction of overall tests. z Only one slite pair.

Power-50%

Power-50%

--- P-value

--- P-value

Power

Power

--- P-value

--- P-value

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Chaetomorpha/Rhizoclonium (A) (a)

Power-50%

Power-50%

Table C-5.254. Algal Percent Cover. Chlorophyta. Prince William Sound. Coarse Textured. July 1991. Cleared September 1989. (Continued.)

		Cladop	hora sp.	(AE)				Ulo	thrix sp. (AB)			MO	rphologi	Car G	roup:	Tubular	uno 540		
		. W	0	gr CV	D P	N	C E	E N	0	SE	CA D	p	N	С	SE	N	0	SE	CA D	P
ILM FALL MYC N	•	-									-				_	- U			-	
5980/1598 1 0		0				0		(ñ		_	- 0			-	
598C/1598 1 0 46C/846 1 0		0				0		(ñ		_	- 0			-	
650C/1650 1 0		0				0		(_						0.00	0.00		
P30C\1030 I 0				0.00					0.00	0.00					-	-	0.00	0.00		
abitat Means			0.00	0.00									Power			Power	c-50%		P-value	
not also and a Section		Powe	er-50%	P-valu	ie	Power			wer-50%		P-value		Power				r-50%		P-value	
Fisher's Power Stouffer's Power			er-50%	P-val	ie	Power		Po	wer-50%		P-value		rowe-			20				
Stouffer's Power		2011							0.00	0.00	_		0			3	0.00	0.00	-	
6C/506 2 0		- - 3	0.00	0.00 -		0		(, 0,00	0.00	_		0			Q			-	
98C/1598 2 0		0				0		(,)		_		0			Q			-	
46C/846 2 0		0				ŏ		(, 1		_		0			0			-	
650C/1650 2 0		0				U		'	•								0.00	0.00	1	
			0.00	0.00					0.00	0.00							0.00	0.00		
abitat Means			0.00						ower-50%		P-value		Power		-		r-50%		P-value	
Fisher's Power			er-50%	P-val		Power			ower-50%		P-value		Power		-	Powe	r-50%		P-value	
Stouffer's Power		Pow	er-50%	P-val	1e	Power		P	wet-30#		_ varac						0.00	0.00) -	
Beddiege -			1.25	1.25 -		0		•	2 0.00	0.00	-		0			2	0.00	0.00	-	
06C/506 3 0		2	1.25	1.23		å)		_		0			0				
598C/1598 3 0		0				0			J		-		0			0				
46C/846 3 0		0				0			o		-		Ü			0				
650C/1650 3 0		0							0.00	0.00	1						0.00	0.00	כ	
abitat Means			1.30	1.30					0.00	Ų. o.									P-value	
		_	F 0.0	P-val	10	Power		Þ	ower-50%		P-value		Power				r-50%		P-value P-value	
Fisher's Power		Pow	er-50%	P-val		DOMOT		P	ower-50%		P-value		Power		-	POME	r-50%		r-value	

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

Blidingia/Enteromorpha (AE) (a) SE CV D P N c 0 SE CA D P 0 C SE N P CA D SE N 0 9E C Site Pair MVd N 0.00 0.00 ___ 506C/506 ---1598C/1598 0 ------846C/846 0 ----0 - ----_ -1650C/1650 0 0.00 0.00 Habitat Means Power-50% --- P-value --- P-value Power ---Power-50% --- P-value Power --- P-value Power-50% Power-50% Power ---Fisher's POWER ar- 2-value Power-50% --- P-value Power Power-50% Power Stouffer's 0.00 3 0.00 0 506C/506 -----0 1598C/1598 2 Õ -----0 ----846C/846 Đ --**-**Ō --0 --1650C/1650 0.00 0.00 ___ Habitat Means --- P-value Power-50% --- P-value Power ---Power-50% Power-50% --- P-value Power Power-50% --- P-value Powe≃ ___ Fisher's Power Power-50% --- P-value --- P-value ---Power Power-50% Power Stouffer's 0.00 0.00 506C/506 Ω -----0 1598C/1598 Ð ---------846C/846 0 ---0 --3 1650C/1650 Ω 0.00 0.00 Habitat Means Power-50% --- P-value Power Power-50% --- P-value --- P-value Power Power-50% P-value Power-50% Power ---Fisher's Power Power-50% --- P-value ------ Parraline Power DOLLOY FOR

(a) Conera not separated.

 \mathbf{x} At least one site pair p-value < 0.300 in opposite direction of overall tests. \mathbf{y} Direction of difference between habital means is different than direction of overall tests. \mathbf{z} only one site pair.

Table C-5.254. Page 3. 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 Phaco	phyta		Morpho	logical Group: B	laded Browns			Fucus cottonii	(P)
Site Pair Mvd N	c s	E N O	SE CV D P	N	C gi	e n o	SE CV D P	N	C S	BE N O	SE CV D P
506C/506 1 0 1598C/1598 1 0 846C/846 1 0 1650C/1650 1 0		3 0.0 0 0	 	- 0 - 0		3 0.00 0 0 0	0.00	0	 	3 0.00 0 0 0	0.00
Habitat Means		0.0	0 0.00			0.00	0.00			0.00	0.00
Fisher's Power Stouffer's Power		Power-50% Power-50%	P-value P-value	10,101	~	Power-50% Power-50%	P-value P-value	10001		Power-50% Power-50%	P-value P-value
506C/506 2 0 1598C/1598 2 0 846C/846 2 0 1650C/1650 2 0		3 1.6 0 - 0 -	<u>-</u>	0 0		3 1.67 0 0	1.67	0 0	 	3 0.00 0 0	0.00
Habitat Means	-~	1.7	0 1.70		- •	1.70	1.70			0.00	0.00
Fisher's Power Stouffer's Power		Power-50% Power-50%	P-value P-value			Power-50% Power-50%	P-value	10401		Power-50% Power-50%	P-value P-value
506C/506 3 0 1598C/1598 3 0 846C/846 3 0 1650C/1650 3 0		ž.		- 0 - 0	 	2 30.00 0 0 0	30.00	0 0	 	2 0.00 0 0 0	0.00
Habitat Means		31.3	0 31.30			30.00	30.00			0.00	0.00
Fisher's Power Stouffer's Power		Power-50% Power-50%	P-value P-value	20110-		Power-50% Power-50%	P-value	10.102		Power-50% Power-50%	P-value P-value

x At least one site pair p-value < 0.180 in opposite direction of 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, 1

					Total	LFucu	s gardne	eri (P)					Ad	hult F	nora a	ardneri ((P) (> 2	icm)				Ju	venile	Fucus	gardneri	(P) (<	= 2cm)		
Site Pair M	vd	N	С	s	E	N	o	SE	cv	D P		N	c	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	CV I)	P
1598C/1598 846C/846 1650C/1650	-	0 0 0	 		 	0 0	 	~	 		_	0 0 0	 	_	- 0 - 0 - 0			-			0			0 0		-			
Habitat Means							0.00	0.0	0					-	-	0.00	0.00)							0.00	0.0	0		
Fisher's Stouffer's		ower				Power Power			P-valu P-valu			ower				r-50% r-50%		P-val P-val			Power Power				ver-50% ver-50%	-	P~value P-value		
1598C/1598 2 846C/846 2	2 2 2 2	Ō	 		 	3 0 0	1.67 	~	7 - 		-	0 0 0		-	- 3 - 0 - 0 - 0	1.67	1.67 	-			0 0 0			3 0 0	0.00	-	0 - - - -		
Habitat Means							1.70	7	0					-	-	1.70	1.70)							0.00	0.0	0		
Fisher's Stouffer's		ower Power				Power Power			P-valu P-valu			ower				r-50% r-50%		P-val P-val			Power Power				wer-50% wer-50%		P-value P-value		
1598C/1598 846C/846	3	0 0 0	 		 	2 0 0 0	30.00	_	0 -		-	0 0 0	 	_	- 2 - 0 - 0 - 0	30.00	30.00 	-			0 0 0			2 0 0	0.00	-			
Habitat Means							30.00	30.0	0					-	-	30.00	30.00)							0.00	0.0	0		
Fisher's Stouffer's		Power Power				Power Power			P-valu P-valu			ower ower				r-50% r-50%		P-val P-val			Power Power				ver-50% wer-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 babitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.255. Algal Percent Cover. Phaeophyta, Prince William Sound. Coarse Textured. July 1991. Cleared September 1989. (Continued.)

				F	исив	Stipes (P)	(a)			Mo	pholog	ical G	roup:	Coarse	Filame nt	ous Brow	ns			D	ictyos	iphon sp.	(A)		
Site Pair	MVd	N	С	SE	N	0	SE	cv	D P	N	c	SE	N	0	SE	CV D	P	N	С	SE	N	D	SE	GA D	Þ
506C/506 1598C/1598 846C/846 1650C/1650	1 1 1	0 0 0	 	-	- 3 - 0 - 0	0.00	0.00	-		0			- 0 - 0	0.00	0.00	-		0 0		-	- 0 - 0	0.00	0.00	-	
Habitat Mea Fisher's Stouffer'		Power Power				0.00 er-50% er-50%		P-valu P-valu		CONCI			Powe	0.00 er-50% er-50%		P-value P-value		Power Power			Powe	0.00 r-50% r-50%		?-value ?-value	
506C/506 1598C/1598 846C/846 1650C/1650	2	0 0 0	 	-	- 3 - 0 - 0	0.00	0.00 			0	 		- 0	0.00	0.00	-		0 0 0	 	- - -	- 0	0.00	0.00	-	
Habitat Mea Fisher's Stouffer'		Power Power				0.00 er-50% er-50%		P-valu P-valu		1044			Powe	0.00 er-50% er-50%		P-value P-value		Power Power			Powe	0.00 r-50% r-50%		P-value P-value	
506C/506 1598C/1598 846C/846 1650C/1650	3 3 3	0 0 0 0		-	- 2 - 0 - 0	0.00	0.00	-		. 0			- 0	1.25	1.25	-		0 0 0	 	-	- 2 - 0 - 0	0.00	0.00	-	
Habitat Mea Fisher's Stouffer'		Power Power				0.00 er-50% er-50%		P-valı P-valı		10,101			Powe	1.30 er-50% er-50%		P-value P-value		Power Power		-		0.00 r-50% r-50%		P-value P-value	

At least one site pair p-value < 3.00 in opposite direction of overall tests.</p>
y Direction of difference between babitat means is different than direction of overall tests.
2 Only one site pair.

Table C 5.255, Page 3, December 15, 1994

			Myel	Lophy	cus/Sc	ytosipho	n (A)	(a)		×	torphologi	cal G	roup:	Fine Fi	lamento	18 Brown			F	ine F	11ament	ous Brown	s (AE)	(b)	
Site Pair	Mvd	1 N	c s	E	N	0	SE	ÇV D	P	N	c :	9B	N	0	\$E	CA D	P	N	C	SE	N	0	SE	CV D	P
506C/506 1598C/1598 846C/846 1650C/1650	1 1 1	0	 		0	0.00	0.00	-		0 0			0	0.00	0.00	-		0 0 0			3 0 0	0.00	0.00	-	
Habitat Mea		•			-	0.00	0.00)				- -		0.00	0.00							0.00	0.00		
Fisher's Stouffer'		Power Power			Power-			P-value P-value		Power Power				:-50% :-50%		-value -value		Power Power				r-50% r-50%		P-value P-value	
506C/506 1598C/1598 846C/846 1650C/1650	2 2 2	0	 		0	0.00	0.00	- -		0 0 0	 	==	0	0.00 	0.00	-		0 0 0			3 0 0	0.00	0,00 	-	
Habitat Mea		Power			Power-	0.00	0.0) P-value		Power			Power	0.00 c-50%	0.00	-value		Power				0.00 er-50%		P-value	
Fisher's Stouffer'	s	Power			Power			P-value		Power				r-50 %	~ :	-value		Power		-	Powe	er-50%		P-value	
506C/506 1598C/1598 846C/846 1650C/1650	3 3 3	0	 		0	1.25	1.2			0 0 0			0	0,00	0.00	-		0 0 0			2 0 0	0.00	0.00	-	
Habitat Mea	ans					1.30	1.3)						0.00	0.00							0.00	0.00		
Fisher's Stouffer'		Power Power			Power Power			P-value P-value		Power Power				c-50% r-50%		-value -value		Power Power				er-50% er-50%		P-value P-valuc	

⁽a) Genera not separated.

⁽b) Elachista, Ectocarpus and Pilayella.
x At least one site pair p.vajue < 0.180 in opposite direction of overall tests.</p>
y Direction of difference between abbitat means is different than direction of overall tests.
z Only one site pair.

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.

					To	tal Rhode	ophyta					Morp	hologi	ca1	Group: E	Bladed R	eds					Palmar	ia spp.	(A)		
Site Pair	Mvd	N	c	SE		N O	2	E	CV D	P	N	C :	9E	N	0	SE	CA D	P	N	С	SE	N	0	SE	מ פט	Þ
506C/506 1598C/1598 846C/846 1650C/1650	1 1 1	0 0 0	 			ŏ -	50	2.50	- - - -	===	0 0 0	 		3 0 0	0.00	0.00	- - - -		0 0 0	 	-	- 0	0.00	0.00	- - -	
Habitat Mean	ıs					2.9	50	2.50					~-		0.00	0.00						-	0.00	0.00		
Fisher's Stouffer's		Power Power				Power-50% Power-50%			P-value P-value		Power Power				c=50% c=50%		-value -value		Power Power			Power Power	c-50% c-50%		-value -value	
506C/506 1598C/1598 846C/846 1650C/1650	2 2 2 2	0 0 0 0				ŏ ·	50 	0.00			0 0 0	 		3 0 0	0.00	0.00	- - -		0 0 0		-	- 0	0.00	0.00	- - -	
Habitat Mear	s			-		2.5	50	0.00							0.00	0.00						-	0.00	0.00		
Fisher's Stouffer's		Power Power				Power-50% Power-50%			P-value P-value		Power Power				c-50% c-50%		-value -value		Power Power	- - -		Powe:	c-50% c-50%		-value -value	
506C/506 1598C/1598 846C/846 1650C/1650	3 3 3	0 0 0	 			0	 	2.50	- - -		0 0 0	 		2 0 0 0	0.00	0.00	- - -		0 0 0			- 0 - 0 - 0	0.00	0.00	-	
Habitat Mean	15			-		2.	50	2.50							0.00	0.00					-	-	0.00	0.00		
Fisher's Stouffer's		Power Power				Power-50% Power-50%			P-value P-value		Power Power				r-50% r-50%		-value -value		Power Power			Power			-value	

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

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

		м	orpholo	gical	Gra	oup:	Coarse	Filam	ento	ous Reds	•			Crypt	cosipl	onia wood	111 (A)					Glo	iopelt	is furca	ta (A)		
Site Pair M	avd.	N	С	SE	- 1	N	٥	SE		CA D	P	N	С	SE	N	0	SE	CV D	P	N	С	SE	N	0	SE	CV D	P
506C/506 1598C/1598		0			:	3	2.50	2.5		_		ů n			-	0.00	0.00	-		0		-		2.50	2.50	-	
846C/846	1	0			i	o o			_	-		0			-			-		0		-				-	
Habitat Means	3						2.50	2.5	0							0.00	0.00					-	-	2.50	2.50		
Fisher's Stouffer's		Power Power				ower-				value value		Power Power				r-50% r-50%		-value -value		Power Power			Powe:	r-50% r-50%		-value -value	
	2	0 0 0			(3 0 0	2.50	-	-	- - -		0 0 0	 		0	0.00	0.00	- - -		0 0 0	 	-	- ŏ	2.50	0.00	- - -	
Habitat Means	3						2.50	0.0	0							0.00	0.00					-	-	2.50	0.00		
Fisher's Stouffer's		ower?				ower-				value value		Power Power				r-50% r-50%		-value -value		Power Power				r-50% r-50%		-value	
1598C/1598 846C/846	3	0 0 0			:	2 0 0 0	2.50	-	_	-		0 0 0	 		0	0.00	0.00	- - -		0 0 0	 	- - -	- 0 - 0	2.50	2.50 	- - -	
Habitat Means	3						2.50	2.5	0							0.00	0.00					-	-	2.50	2.50		
Fisher's Stouffer's		ower Power				ower-				value value		Power Power				r-50% r-50%		-value -value		Power Power			Powe:	r-50% r-50%		-value -value	

x At least one site pair p-value < 0.100 in opposite direction of overall tests. y Direction of difference between habitat means is different than direction of overall tests. 2 Only one site pair.

Table C-5.256. Algal Percent Cover. Rhodophyta. Prince William Sound. Coarse Textured. July 1991. Cleared September 1989. (Continued.)

			ь	eorhod	omela/	'Rhodome 1	a (P) (a)				000	nthali	a flocco	8a (P)				Mo	rpholog	gical (Froup: 8	Saccate I	Reds	
Site Pair	Mvd N		С	SE	N	0	SE	CA D	P	N	c	SE	N	٥	SE	CV D	P	N	C	SE	N	0	SE	CV D	P
506C/506 1598C/1598 846C/846 1650C/1650	1 0 1 0 1 0 1 0		 	 	0	0.00	0.00	-		0	 		- 0	0.00	0.00	- - -	 	0 0 0 0	 	 	· 0	0.00 	0.00 	-	
Habitat Mean	ns		- ~			0.00	0.00					~-		0.00	0.00						-	0.00	0.00		
Fisher's Stouffer's		wer			Power			P-value P-value		Power Power				r=50% r-50%		-value -value		Power Power			Power Power			P-value P-value	
506C/506 1598C/1598 846C/846 1650C/1650	2 0 2 0 2 0 2 0			 	0	0.00	0.00	-		0 0 0	 	***	- 0	0.00	0.00	- - -		0 0 0	 		- 0	0.00	0.00	-	
Habitat Mean	ns.		-~			0.00	0.00					~ -		0,00	0.00							0.00	0.00		
Fisher's Stouffer's		wer			Power			P-value P-value		Power Power				r=50% r=50%		P-value P-value		Power Power			Power Power	-50% -50%		P-value P-value	
506C/506 1598C/1598 846C/846 1650C/1650	3 0 3 0 3 0 3 0			 	0	0.00	0.00	-		0 0 0	 		- 0	0.00	0.00	- - -		0 0 0	 		. 0	0.00	0.00	- - -	
Habitat Mean	ns					0.00	0.00						-	0.00	0.00						-	0.00	0.00		
Fisher's Stouffor's		wer wer			Power			P-value P-value		Power Power			Powe:	r-50% r-50%		-value -value		Power Power			Power			-value -value	

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

Table C 5,256, Page 3. December 15, 1994

				Halo	BACC.	lon g	landifo	orme (A)			Morpholog	rical G	roup	: Fine 1	7ilament	ous Reds			Po	lysiph	onia/P	terosipho	nia (A)	(a)	
Site Pair	Mvc	N	С	SE	ь	7	D	816	CV D	P	N	c	SE	N	0	SE	CV D	P	N	С	SE	N	0	SE	CV D	P
06C/506 598C/1598 46C/846 650C/1650	1 1 1 1	0 0 0	 	-	- 3 0 0	;))	0.00	0.00	-		0 0 0	 		3 0 0	0.00	0.00 	- - -		0 0 0	 	-	- 3 - 0 - 0 - 0	0.00	0.00	- - -	
abitat Mea	ລຣ			-	-		0.00	0.00							0.00	0.00					-	-	0.00	0.00		
Fisher's Stouffer'	5	Power Power				wer-			P-value P-value		Power Power				r-50% r-50%		e-value e-value		Power Power				r-50% r-50%		P-value P-value	
06C/506 598C/1598 46C/846 650C/1650	2	0 0 0	 	-	- 3 0 0)))	0.00	0.00	-		0 0	 		3 0 0	0.00	0.00 	- - -		0 0 0	 	-	- 3 - 0 - 0	0.00 	0.00	-	
abitat Mea	ns				-		0.00	0.00							0.00	0.00					-	-	0.00	0.00		
Fisher's Stouffer'	s	Power Power				wer-			P-value P-value		Power Power				r-50% r-50%		-value -value		Power Power				r-50% r-50%		P-value P-value	
06C/506 598C/1598 46C/846 650C/1650	3	0 0 0 0	 	-	- 2 - 0 - 0	: - -	0.00	0.00	-	 	0 0 0	 		2 0 0 0	0,00	0.00	-		0 0 0		-	- 2 - 0 - 0 - 0	0.00	0.00 	- - -	
abitat Mea Fisher's Stouffer'		Power Power		-		wer-			P-value P-value		Power Power				0,00 r-50% r-50%		e-value -value		Power Power		-		0.00 r-50% r-50%		-value	

(a) Denote not espectable x Rt least one site pair p-value < 0.100 in opposite direction of overall tests. y Direction of difference between habitat means is different than direction of overall tests. z Duly one site pair.

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; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

				Bals	nomorpha							Lo	ttiidae							My	tilus			
Site Pair Mvd	N	c .	SE	N	0	SE	CA D	P	N	¢	SE	N	0	SE	ÇV D	P	N	С	SE	N	0	SE	GA D	P
506C/506 1 1598C/1598 1	0	- -		· Õ	0.00	0.00	-		0		-	- 3 - 0 - 0	0.00	0.00	- - -		0			3 0 0	0.00	0.00	- - -	
0400,040	0								ő		-	- 0			-		0			0	0.00	0.00		
Habitat Means					0.00	0.00					-	-	0.00	0.00										
	Power			Power			P-value P-value		Power Power				r-50% r-50%		-value -value		Power Power			Power-			P-value P-value	
506C/506 2 1598C/1598 2	0 0 0			0	0.83	0.83	-		0 0 0		-	- 3 - 0 - 0 - 0	0.00	0.00 	- - -		0 0 0			0	1.67 	0,83	-	
Habitat Means					0.80	0.80					-	-	0.00	0.00						_	1.70	0.80		
	Power Power				c-50%		P-value P-value		Power Power				r-50% r-50%		-value -value		Power			Power Power	-50%		P-value P-value	
846C/846 3	0 0 0			- 0 - 0	2.50	2.50 	-		0 0 0		-	- 2 - 0 - 0	0.00 	0.00 	-		0 0 0			0	8.75 	8.75 	- - -	
Habitat Means					2.50	2.50					-	-	0.00	0.00							8.80	8.80		
	Power Power				r-50% r-50%		P-value P-value		Power Power				er-50% er-50%		e-value e-value		Power Power			Power Power			P-value P-value	

 \times At least one site pair p value < 0.100 in opposite direction of overall tests. y Direction of difference between habitat means is different than direction of overall tests. 2 Only one site pair.

Table C-5.257, Page 1, December 15, 1994

					Litt	orinidae	•																		
Site Pair	Mvć	1 N	с	ΪE	N	0	SE	CA D	P	N	С	SE	N	0	SE	CV I	P	N	c	SE	N	0	SE	CV D	P
506C/506 1598C/1598 846C/846 1650C/1650	1	0 0 0	 		0	0.00	0.00	<u> </u>																	
Habitat Mea Fisher's Stouffer'		Power Power			Power Power			P-value P-value		Power Power			Power:			P-value P-value		Power Power				r-50% r-50%		P-value P-value	
506C/506 1598C/1598 846C/846 1650C/1650	2	0 0 0			· 0	0.00	0.00	. .																	
Habitat Mea Fisher's Stouffer'		Power Power	 		Power Power			P-value P-value		Power Power			Power Power			P-value P-value		Power Power				r-50% r-50%		P-value P-value	
506C/506 1598C/1598 846C/846 1650C/1650	3	0 0 0			- 0	0.00	0.00	 																	
Habitat Mea Fisher's Stouffer'	ans	Power Power	 		Power Power) P-value P-value		Power Power			Power Power			P-value P-value		Power Power				r-50% r-50%		P-value P-value	

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

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; 0 = control oiled; P · probability value; dashes = insufficient data.

			Rock			_		_		Oiled Rock						Mud		
Site Pair Mvd N	c sı	E N	0	SE	GA D	P	N	C S	IE N	r 0	SE CV	P	N	c	SE N	0	SE CV D	P
506C/506 1 0 1598C/1598 1 0 846C/846 1 0 1650C/1650 1 0		3 0 0	97.50 	2.50	- - - -		0 0 0		3 0 0	0,00 	0.00 -		0 0 0	 	3 0 0	0.00	0.00 -	
Habitat Means			97.50	2.50					~-	0.00	0.00					0.00	0.00	
Fisher's Power Stouffer's Power			er-50%		-value -value		Power Power			wer-50% wer-50%	P-value		Power Power			r-50% r-50%	P-value P-value	
506C/506 2 0 1598C/1598 2 0 846C/846 2 0 1650C/1650 2 0		3 0 0	93.33 	2,20 	-		0 0 0		3 0 0	0.00	0.00 -		0 0 0	 	3 0 0	0.00	0.00 -	
Habitat Means			93.30	2.20						0.00	0.00					0.00	0.00	
Fisher's Power Stouffer's Power			er-50%		-value -value		Power Power			wer-50%	P-valu		Power Power			r-50% r-50%	P-value P-value	
506C/506 3 0 1598C/1598 3 0 846C/846 3 0 1650C/1650 3 0	 	2 - 0 0 0	53.75 	23.75	-		0 0 0	 	2 0 0	0.00	0.00 -		0 0 0 0	 	2 0 0	0.00 	0.00 -	
Habitat Means			53.80	23.80						0.00	0.00					0.00	0.00	
Fisher's Power Stouffer's Power			er-50% er-50%		-value -value		Power Power			wer-50% wer-50%	P-value		Power Power			r-50% r-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 hebitat means is different than direction of overall tests.
y Only one site pair.

Table C 5,258, Page 1, December 15, 1994

						Sand						Sh	all Fragmen	ts						Water			
Site Pair)	Mvd	N	С	SE	N	0	SE	CV D	P	N	c :	SE N	0	SE	CV D	P	N	С	SE	N O	SE CV	D	Þ
506C/506 1598C/1598 846C/846 1650C/1650	1	0 0 0			ő o	0,00	0.00	-		0 0 0		3 0 0	0.00	0.00			0		 	3 0.00 0 0	0.00 -		
Habitat Means	s					0.00	0.00						0.00	0.0	נ					0.00	0.00		
Fisher's Stouffer's		ower ower				r-50% r-50%		P-value P-value		Power Power			wer-50% wer-50%		P-value P-value		Power Power			Power-50% Power-50%	P-val		
1598C/1598 846C/846	2 2 2 2	0	 		0	0.00	0.00 	-		0 0 0	 	3 0 0	0.00	0.00			0 0 0	 	 	3 0.00 0 0	0.00 -		
Habitat Means	5					0.00	0.00						0.00	0.0)					0.00	0.00		
Fisher's Stouffer's		Power Power			Power Power	r-50% r-50%		P-value P-value	 -	Power Power			wer-50% wer-50%	-	P-value P-value		Power Power			Power-50% Power-50%	P-val		
506C/506 1598C/1598 846C/846 1650C/1650	3	0 0 0	 	 	ō o	0.00	0.00 		 	0 0 0		2 0 0	0.00	0.00	- -	 	0 0 0	 	 	2 0.00 0 0 0	0.00 -		
Habitat Means	s		¬-			0.00	0.00						0.00	0.00)					0.00	0.00		
Fisher's Stouffer's		ower Power			Power Power			P-value P-value		Power Power			wer-50% wer-50%		P-value P-value		Power Power			Power-50% Power-50%	P-val		

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

Table C-5.258. Algal Percent Cover. Substrates. Prince William Sound. Coarse Textured. July 1991. Cleared September 1989. (Continued.)

			Zoste	ra/Phyl	lospa	ndix						San	d and Mud	1						Tota	l Substra	te		
Site Pair Mvd N	c	SE	N		,	SR	CV D	P	N	С	SE	N	0	SE	ÇA D	P	N	С	SE	N	0	SE	CV D	
506C/506 1 0 1598C/1598 1 0 846C/846 1 0 1650C/1650 1 0	 		3 0 0	0.	00	0.00	- - -		0 0 0	 		- 3 - 0 - D	0.00	0.00		 	0 0	 	-	- 3 - 0 - 0	97.50	2,50	-	
Habitat Means				0.	00	0.00					~	-	0.00	0.00			Ü			0	97.50	2.50		
Fisher's Power Stouffer's Power				ver-50% ver-50%			-value -value	- 	Power Power			Power Power			P-value P-value		Power Power				er-50%		P-value P-value	
506C/506 2 0 1598C/1598 2 0 846C/846 2 0 1650C/1650 2 0	 		3 0 0		00 	0.00 - - 	- - -		0 0 0		-	- 0	0.00 	0.00			0 0 0	 	~	3 0 0	93.33	2,20 	-	
Habitat Means				0.	00	0.00					-	-	0.00	0.00					~	-	93.30	2.20		
Fisher's Power Stouffer's Power				ver-50% ver-50%			-value -value		Power Power			Power			-value -value		Power Power				r-50% r-50%		P-value P-value	
506C/506 3 0 1598C/1598 3 0 846C/846 3 0 1650C/1650 3 0			2 0 0 0		00 	0.00	- - -		0 0 0	 	- - -	- 0	0.00 	0.00	- - -		0 0 0	 	-	- 2	53.75	23.75	-	
Habitat Means				0.	00	0.00							0.00	0.00			•		_		53.80	23.80		
Fisher's Power Stouffer's Power				er-50% er-50%			-value -value		Power Power			Power Power			-value -value	-	Power Power				r-50% r-50%		P-value P-value	

X At least one size pair p-velue < 0.100 in opposize direction of overall leats.</p>
y Direction of difference between babilat means is different than direction of overall tests.
2 only one site pair.

Table C-5.259. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Estuarine. July 1991. Cleared Septemb_{ir} 1989.

Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample siz; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - control < oiled; o = control = oiled; P = probab_[1]ty value; dashes = insufficient data.

esults of s E = standar													L Tax	a Richnes	s (b)						Tot	al Algae			
				Algal	Diver	sity Ind	lex (a)					SB	N	0	SE	CV D		N	С	SE	N	0	SE	CV D	P
ite Pair	Mvđ	N	c	SE	N	٥	SE	CA D		N	С					-		0				0.00	0.00	- 1	0,500
15.1C/P15.1	1 1	0				0.00	0.00		1.000	2	0.50	0.50		0.00	0.00	- +	1.500	2	6.25	6.25		0.00	0.00	+	0.00-
397C/20809	1	2	0.00		3		0.00				0.50	0.50		0.00	0.00				6.30	6.30				-value	
abitat Mear	ns		0.00	0.00		0.00				, Power				r-50%		P-value		z Power			Powe:	r-50% r-50%		P-value	
Fisher's Stouffer's		Power Power			Power Power	-50%		P-value P-value		_			0	r-50%				Power	45.83	 29.17	0	0.00	0.00		0.244
15.1C/P15.3 397C/20809	1 2	0	0.12	0.12		0.00	0.00			3	1.67	1.20		0.00	0.00		0.300	,	45.80	29,20		0.00	0.00	+	
abitat Mea			0.12	0.12		0.00	0.00			, Power	1,67			r-50%		P-value						r-50% r-50%		P-value P-value	
Fisher's Stouffer's	s	Power Power			Power Power	-50% -50%		P-value P-value		_			Powe:	r-50%		P-value 		Power 0			0				
15.1C/P15.	1 3	0	0.58	0.13	0					•	4.50	1.50	0					2	72.50 72.50	15.00					
397C/20809		2	0.58	0.13	-			_			4.50	1.50			-			Power		-	Powe	r-50%		P-value	
labitat Mea	ins				C	c-50%		P-value	e	Power				r-50%		P-value P-value		Power				\$00-15		P-value	
Fisher's		Power			Sower	2-204				D			DOME	v-5A%		1-46705									

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

mly one sice pair.	value < 0.100 i between habitat										Roci								Perenn	ials (P)			
		TO	tal I	nvertebra	tes							SE	CV	D	P	N	С	SE	N	0	SE	CA D	P
e Pair Mvd N	С	SE	N	0	SE	C ₂ >	P	N	С	SE	и			_		n			0			-	
			0					0	37.50	37.50			00 -		295	2	6.25	6.25	3	0.00	0.00	- +	0.500
5.1C/P15.1 1 0 97C/20809 1 2	56.25	43.75	3	0.00	0.00		0.356	2		37.50			00	-			6.30	6.30		0.00	0.00	•	
itat Means	56.30	43.80	Power	0.00		;-A5] /7;	:	Power	37.50	37.50	Power-50		P-vai P-val	244	z	Power Power			Power-			P-value P-value	
touffer's Pov	G.		Power	c-50% 	1	eulsv-9		Power		6.67	0		 81 -	- 0.	.018	0 3	45.00	29.30		0.00	0.00		0.24
.1C/P15.1 2 0 7C/20809 2 3	41.67	30.05	-	24.17	14.81	- +	0.667	3	6.67 6.70	6.70		.80 14.	80	-			45.00	29.30	!	0.00	0.00	,	
oitat Means	41.70	30.10	Power	24.20 r-50%		P-valub		z Power			Power-50 Power-50	t			8	Power Power			Power-			P-value P-value	
Stouffer's Por		-		r-50% 		P-velu≥ -		0		6.25	0		- <u>-</u> -			0 2	13.75	8.75				-	
5.1C/P15.1 3 0 97C/20809 3 2	15.00	2.50						2	6.25	6.30							13.80	8,80					
oitat Means	15.00	2.50)			p-value		Power			Power-50		P-val	ue		Power Power		-	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. Only one site pair.

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

						Ann	uals (A)								Ephe	merals (Al	E)												
Site Pair	Mvd	N	С	91	E	N	0	SE		CV D	P	N	С	88	N	0	SE	CV I	D	P	N	С	Se	N	0	SE	CV	D	P
P15.1C/P15.1 2397C/20809			0.00		 0.00	0 3	0.00	0.	 00	- 0	1.000	0 2	0.00	0.00		0.00	0.00	- (o 3	1.000									
Habitat Mean	15		0.00		0.00		0.00	0.	00	О			0.00	0.00		0.00	0.00	(9										
Fisher's Stouffer's		Power Power				Power Power				-value -value	 	z Power Power				er-50% er-50%		P-value P-value			Power Power			Power Power	:-50% :-50%		P-val P-val		
P15,1C/P15,1 2397C/20809			0.83		0.83	0 3	0.00		00		0.423	0	0.00	0.00		0.00	0.00		o :	1.000									
Habitat Mear	ns		0.80		0.80		0,00	0.	00	+			0.00	0.00		0.00	0.00	•	0										
Fisher's Stouffer's		Power Power				Power				-value -value		z Power Power				er-50% er-50%		P-valu P-valu			Power Power				-50% -50%		P-val P-val		
P15.1C/P15.1 2397C/20809			58.75		6.25					-		0 2	40.00	5.00															
Habitat Mear	ns		58.80		6.30								40.00	5.00															
Fisher's Stouffer's		Power Power				Power	r-50% r-50%			-value -value		Power Power				er-50% er-50%		P-valu P-valu			Power Power				c-50% c-50%		P-va P-va		

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

				7	otal	Chlorophy	/ta					Morp	hologi	cal G	roup: B	laded Gr	eens		_			Bla	ded G	reens (AE	(a)			
Site Pair	Mvd	N	c	SR	N	0	SE	CV	D	P	N	С	SE	N	0	88	CV D	P	N		С	SE	N	0	SE	CV	ם	Þ
P15.1C/P15.1 2397C/20809		0 2	0.00	0.00	-	0.00	0.00		0	1.000	0	0.00	0.00		0.00	0.00	- - c		0 00 2	(0.00	0.00		0.00	0.00	-	0 1	1.000
Habitat Mear	ns		0.00	0.00		0.00	0.00)	0			0.00	0.00		0.00	0.00	0			(00.0	0.00		0.00	0.00		0	
Fisher's Stouffer's	s	Power Power			Power	c-50% c-50%		P-va P-va			2 Power Power				r-50% r-50%		P-valuo P-value		- z Pow Pow					r-50% r-50%		-valu -valu		2
P15,1C/P15.3 2397C/20809			0.00	0.00		0.00	0.00		0	1.000	0	0.00	0.00	0 3	0.00	0.00	- c		0 3			0.00	•	0.00	0.00	_	o 1	1.000
Habitat Mean	ns		0.00	0.00		0.00	0.00)	0			0.00	0.00		0.00	0.00	¢			1	0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	s	Power Power				r-50% r-50%		P-va P-va			z Power Power				r-50% r-50%		P-value P-value		z Pow Pow					r-50% r-50%		-valu -valu		z
P15.1C/P15.1 2397C/20809			8.75	8.75							0 2	1.25	1.25	0			-		0 2	:	25	1.25	•			-		
Habitat Mear	ns		8.80	8.80				-				1.30	1.30							:	1.30	1.30						
Fisher's Stouffer's	s	Power Power			Powe:			P-va P-va			Power Power				r-50% r-50%		P-value P-value		Pow Pow					c-50% c-50%	P	-valu -valu		

(a) Normmannia, Monostroma, Illva and Ulvaria. x A: least one site pair p-value < 0.100 in opposite direction of overall tests. y Direction of difference patween habitat means is different than direction of overall tests. 2 Only one site pair.

		1	Morpholog	gical (Toup:	Fine Fi	lament	ous G	reen	.9			Àc:	rosip	honia sp.	(A)					Chi	aetomo:	rpha/R	hizoclon	ium (A)	(a)		
Site Pair	Mvč	Ŋ	С	SE	N	0	SE	ĊV	Ď	P	N	С	SE	N	0	ŞE	ĊΛ	D	P	N	С	SE	N	0	SE	CV	D	P
P15.1C/P15. 2397C/20809			0.00	0.00	•	0.00	0.00	-	О	1.000	0 2	0.00	0.00		0.00	0.00	-	o	1.000	0 2	0.00	0.00		0.00	0.00	-	0 3	1.000
Habitat Mean	ns		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00	•	0.00	0.00		0	
Fisher's Stouffer's		Power Power			Power Power			P-val P-val			Power Power				r-50% r-50%		P-val P-val			z Power Power				c-50% c-50%		P-valu P-valu		z
P15.1C/P15.2397C/20809		0	0.00	0.00	0	0.00	0.00		0	1.000	0 3	0.00	0.00	•	0.00	0.00		o	1.000	0 3	0.00	0.00		0.00	0.00	-	0 1	1.000
Habitat Mea	ns		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		o			0.00	0.00	1	0.00	0.00		0	
Fisher's Stouffer'		Power Power			Power Power			P-val P-val			z Power Power				r-50% r-50%		P-val P-val			z Power Power				r-50% r-50%		P-valu P-valu		z
P15.1C/P15. 2397C/20809		0	7.50	7,50							0 2	0.00	0.00	*						0 2	0.00	0.00						
Habitat Mean	ns		7.50	7.50								0.00	0.00								0.00	0.00	•					
Fisher's Stouffer's		Power Power			Power Power			P-val P-val			Power Power				r-50% r-50%		P-val P-val			Power Power				r-50% r-50%		P-valu P-valu		

(a) Genera not separated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.</p>
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

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

				C:	ladop	hora sp. ((AE)				Mo	rphologic	al Gr	oup:	Tubular	and Sac	cate Gr	ens			В	liding	ia/En	teromorph	1 (AE) (a	a)		
Site Pair	Mvd	N	С	SE	N	0	SE	CV	D	P	N	c	SE	N	0	SE	CV D	I	,	N	С	SE.	N	0	SE	cv	D	P
P15.1C/P15.1 2397C/20809	1		0.00	0.00		0.00	0.00	-	0	1.000	0 2	0.00	0.00	0 3	0.00	0.00	- - 0		000	0 2	0.00	0.00	3	0.00	0.00	-		1.000
Habitat Mean	s		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	O				0.00	0.00)	0.00	0.00		0	
Fisher's Stouffer's		Power Power				er-50% er-50%		P-va P-va			Power Power				r-50% r-50%		P-value P-value		z	Power Power				er-50% er-50%		-val		z
P15.1C/P15.1 2397C/20809			0.00	0.00		0.00	0.00		0	1.000	0	0.00	0.00	0	0.00	0.00			000	3 0	0.00	0.00	•	0.00	0.00	-	0	1.000
Habitat Mean	ıs		0.00	0.00	ı	0.00	0.00)	0			0.00	0.00		0.00	0.00	0				0.00	0.00)	0.00	0.00		0	
Fisher's Stouffer's		Power Power				er-50% er-50%		P-va P-va			<pre>Power Power</pre>				r-50% r-50%		P-value P-value		z	Power Power				er-50% er-50%		-val -val		z
P15.1C/P15.1 2397C/20809	3	0	7.50	7,50							0 2	0.00	0.00	0						0 2	0.00	0.00	o ō			-		
Habitat Mean	s		7.50	7.50)							0.00	0.00								0.00	0.00)					
Fisher's Stouffer's		Power Power				er-50% er-50%		P-va P-va			Power Power				z-50% z-50%		P-value P-value			Power Power				er-50% er-50%		-val		

⁽a) Genure NOS separated: y At least one site pair p-value < 0.100 in opposite direction of overall tusts. y Direction of difference between babitat means is different than direction of overall tests. notly one site pair.

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; Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - · control < oiled; o = control = oiled; P probability value; dashes : insufficient data.

				_							Мотр	hologi	cal G	roup: B	laded B	LOMU					F	ucus c	ottonii	(P)			
	_			rotal	Phaeophy	ta					-	an	M	- ^	00		п	D	N	۲	SE.	N	Ω	SE	CV I		P
P13.1C/P13.1 =	v	6,25	6.25	3	0.00	0.00	_	4	0.500	2	6.25	6.25	3	0.00	0.00) –	H	0.500	2	0.00	0.00	3	0.00	0.00			.000
2397C/20809 1	4	6.30	6.30		0.00	0.00		+			6.30	6.30		0.00	0.00		_			0.00	0.00		0.00	0.00			
	Power	-	0.50	Power	-50%		P-val			2 Power Power				r-50% r-50%		P-val P-val			2 Power Power			Power Power			P-value P-value		z
000000	Power				-504					0			0						0			0	0.00	0.00		. 1	.000
P15.1C/P15.1 2 2397C/20809 2		43,33	29.63	•	0.00	0.00		-	0.259	3	42.50	29.83		0.00	0.00		+	0.264	3	0.00	0.00		0.00	0.00			
Habitat Means		43.30	29.60		0.00	0.00)	+			42.50	29.80		0.00	0.00		,					Power			P-value	,	z
	Power			Power			P-val P-val			<pre>2 Power Power</pre>				r-50% r-5 0%		P-val P-val			<pre>Power Power</pre>			Power			P-value		
P15.1C/P15.1 3				0						0	13.75	8.75	0						0	0.00	0.00						
2397C/20809 3			23.75							-	13.80	8.80			_	_				0.00	0.00)					
Habitat Means		63.80	23.80													P-val	11.0		Power			Power	-50%		P-valu	b	
	Power			Power			P-va P-ua			Power Power				r-50% r-50%		P-val			Power			Power	-50%		P-valu	3	

Only one site pair.			Total	Fucus	gardne	ri (Þ)				Adı	ult Fuc	us ga	rdneri (P) (> 20	:m)			Juve	nile Fu	icus ga	rdneri	(P) (<=		
ite Pair Mvd	N	С	SE	N	0	SE	CV D	P	N	С	ge	N	0	SE	CV D	P	N	C	SE	N	0	SE	ÇA D	P
.5.1C/P15.1 1	0			*	0.00	0.00	- 1	0.500	0 2	6.25	6.25		0.00	0.00	- +	0.500	0	0.00	0.00	•	0.00	0.00		1.000
397C/20809 1	2	6.25	6.25	3	0.00	0.00	- 1	0.500	-	6.30	6.30		0.00	0.00	-			0.00	0.00		0.00	0.00		
	Power			Power Power	-50%	1	e-value e-value		z Power Power			Power Power			P-value P-value					Power- Power-			P-value P-value	
5.1C/P15.1 2	0	42.50	29.83	-	0.00	0.00		0.264	0	42.50	29.83	3	0.00	0.00		0.264	3	0.00	0.00	3	0.00	0.00	- 0	
97C/20809 2 bitat 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		
Fisher's !	Power			Power Power			P-value P-value		z Power Power			Power Power			P-value P-value					Power-			P-value P-value	
5.1C/P15.1 3	0	13.75	8.75	0			-		0 2	13.75	8. 7 5	•					-	0.00	0.00	Ŏ				
97C/20809 3 bitat Means	_	13.80	8.80							13.80	8.80							0.00	0.00					

 $\mathbf x$ At least one site pair p value < 0.100 in opposité direction of oversil tests. Direction of difference between Labitst means is different than direction of oversil tests. Z only one site pair.

Table C-5.261. Algal Percent Cover. Phaeophyta. Prince William Sound. Estuarine. July 1991. Cleared September 1989. (Continued.)

				Fu	cus S	tipes (P)	(a)				м	orphologi	.ca1 G	: quo	Coarse	Filament	ous	Brow	7 13			Di	ctyos	iphon sp.	(A)		
Site Pair	Nvđ	N	С	SE	N	٥	8e	CV	ם	P	N	c	SE	N	0	SE	ÇV	D	P	N	С	SE	М	0	ŞE	CA D	P
P15.1C/P15. 2397C/20809			0.00	0.00		0.00	0.00		0	1.000	0 2	0.00	0.00		0.00	0.00	-	0	1.000	0 2	0.00	0.00	0	0.00	0.00	- 0	1.000
Habitat Mea	ns		0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0,00		0			0.00	0.00		0.00	0.00	0	
Fisher's Stouffer'		Power Power				r-50% r-50%		P-val P-val			<pre>2 Power Power</pre>				r-50% r-50%		P-val P-val			z Power Power				r-50% r-50%		-value -value	z
P15.1C/P15. 2397C/20809			0.00	0.00		0.00	0.00	-	0	1.000	0	0.00	0.00		0.00	0.00	-	a	1.000	0	0.00	0.00	_	0.00	0.00	- 0	1.000
Habitat Mea	ns		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00	0	
Fisher's Stouffer'		Power Power				r~50% r~50%	~	P-val P-val			z Power Power				r-50% r-50%		P-val P-val			z Power Power				r-50% r-50%		-value -value	2
P15.1C/P15. 2397C/20809			0.00	0.00							0 2	18.75	1.25				-			0 2	13.75	6.25	0	~-		_	
Habitat Mea	ns		0.00	0.00								18.80	1.30								13.80	6.30		~ -			
Fisher's Stouffer'		Power Power				r-50% r-50%		P-val P-val			Power Power				r-50% r-50%		P-val P-val			Power				r-50% r-50%		-value -value	

(a) Dead Fucus plants or stipes without blades.

x At least one sice pair p-valve < 0.100 in opposite direction of overall tests.</p>
y Direction of difference between habitat seems is different than direction of overall tests.
x Only one site pair.

Table C-5.261. Page 3. Detember 15, 1994

			Му	alophy	/cua/80	ytosipho	n (A) ((a)			Morpholog	jical G	3roup:	Fine F	ilamento	us Brow	mø		P	ine Fil	amento	us Brown	s (AE)	(b)		
Site Pair	Mvć	N	c	SE	И	0	SE	ÇV	D E	<u>K</u>	2	SE	N	0	SE	CV D	P	N	C	SE	N	0	SE	CY	D	P
2397C/20809	1	2	0.00	0.00	3	0.00	0.00	-	0 1.0	00 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 Mear	ns		0.00	0.00		0.00	0.00		¢.		0.00	0.00		0.00	0.00	0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power			Power-			P-valu P-valu		z Power				r-50% r-50%		P-value P-value		- 10101			Power Power			P-valu		z
P15.1C/P15.2 2397C/20809			0.00	0.00		0.00	0.00	-	o 1.0	0 3	0.00	0.00	O 3	0.00	0.00	- 0	1.000		0.00	0.00	-	0.00	0.00	-	0 1	1.000
Habitat Mear	ns		0.00	0.00		0.00	0.00		0		0.00	0.00		0.00	0.00	0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power			Power-			P-valu P-valu		z Power				r-50% r-50%		P-value P-value					Power Power			P-valu P-valu		z
P15.1C/P15.1 2397C/20809			5.00	5.00				-		đ 2	31,25	13.75				-			31.25	13.75						
Habitat Mean	ns		5.00	5.00							31.30	13.80							31.30	13.80						
Fisher's Stouffer's		Power Power			Power-					Power				r-50% r-50%		P-valuo P-value		10#0+			Power Power			P-valu P-valu		

(a) Genera not Asparated.

(b) Elechista, Ectocarpus and Pliayella.
 x At least one sate pair p value < 0.100 in opposite direction of overall tysts.
 y Direction of difference between abstrat means is different than direction of overall tests.
 only one site pair.

Table C-5.261. Algal Percent Cover. Phaeophyta. Prince William Sound. Estuarine. July 1991. Cleared September 1989. (Continued.)

			Morph	ologi	cal Gr	oup: Sa	ccate 1	Brown	8			1	Leathe	sia/C	olpomenia	(A) (a)											
ite Pair	Hvd	N		gE	N	0	SE	CV		P	N	c	SE	N	0	SB	CV	D	P	N	С	SE	N	0	SE	C	V D	P
L5.1C/P15.1 397C/20809	1	0	0.00	0.00		0.00	0.0		0	1.000	0	0.00	0.00	3	0.00	0.00	-		1.000									
bitat Mear			0.00	0.00		0.00	0.0	P-va	ه داد		_z Power	0.00	0.00		0.00 r-50%	0.00		lue		Power			Power				value value	
Fisher's Stouffer's		Power			Power Power						Power				r-50%		P-va			Power			Power	-50%		2-0	value	
L5.1C/P15.1 397C/20809	. 2	0	0.83	0.83		0.00	0.0			0.423	0 3	0.83	0.83	3	0.00	0.00			0.423									
abitat Mean	15		0.80	0.80		0.00	0.0		. +			0.80	0.80		0.00 r-50%		P-va	t luc		Power				r-50%			value	
Fisher's Stouffer's		Power Power			Power			P-va			z Power Power			Powe	r-50%		P-va	ılue		Power			Powe:	r-50%		P-1	value	
15.1C/P15.1 397C/20809			0.00	0.00				_ :			0 2	0.00	0.00	0		-												
abitat Mear			0.00	0.00)		-	-				0.00	0.00					. 7		Power			Powe	r-50%		. P-	value	
Fisher's		Power			Power				ilue ilue		Power Power				er-50% er-50%		P-va P-va			Power				r-50%			value	

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

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; P - probability value; dashes = insufficient data.

				Total	Rhodophy	rta				Mor	pholog	ical G	roup:	Bladed R	gbes					Porphyra	вр. (A)		
Site Pair My	rd N	С	SE	N	0	SE	CV	D P	Ħ	С	SE	N	٥	gr	Cv D	P	**	-			-		Œ	
Z39/C/20809 2		U.UU	υ.υυ	ا 5	0.00	υ.υυ	- 4	5 ±,U0	JU 2	0.00	ս.սս	3	U.UU	U.UU	- 0	1.000	2	0.00	0.00	13 (0.00	0.00	- 0	1.000
Habitat Means		0.00	0.00	1	0.00	0.00		>		0.00	0.00		0.00	0.00	٥			0.00	0.00		0.00	0.00	0	
Fisher's Stouffer's	Power			Power Power			P-value P-value		- z Power - Power			Power-			P-value P-value		<pre>power Power</pre>			Power-5(P-value P-value	2
P15.1C/P15.1 2 2397C/20809 2		2.50	2.50		0.00	0.00		+ 0.42		0.00	0.00	0	0.00	0.00	- 0	1.000	0	0.00	0.00	0	0.00	0.00	-	1.000
Habitat Means		2.50	2.50		0.00	0.00		+		0.00	0.00		0.00	0.00	0			0.00	0.00		0.00	0.00		1.040
Fisher's Stouffer's	Power Power			Power Power			P-value P-value					Power-			P-value P-value		z Power Power	-		Power-50		~ P	P-value P-value	z
P15.1C/P15.1 3 2397C/20809 3		0.00	0.00	0						0.00	0.00	0			-		0 2	0.00	0.00	0			-	-3-
Habitat Means		0.00	0.00							0.00	0.00							0.00	0.00					
Fisher's Stouffer's	Power Power			Power Power			P-value P-value		- 5461			Power- Power-			P-valuc P-value		Power Power			Power-5(Power-5(P-value P-value	

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

Table C-5.262. Page 1. Detember 15, 1

			Morpholog	ical	Group	: Coarse	Filament	tous Re	ds	_		Crypt	osipl	onia wood	ii (A)					Gloj	iopelti	s furca	ta (A)		
Site Pair	Mv	A N	c	SE	N	0	SE	CV D	P	N	c	SE	N	0	SE	CA D	P	N	С	SE	N	В	SR	מ עים	Þ
2397C/20809		2	0.00	0.00		0.00	0.00	- 0	1.000	2	0.00	0.00	•	0.00	0.00	_	1.000	2	0.00	0.00		0.00	0.00	- 0	1,000
Habitat Mean	ns		0.00	0,00	}	0.00	0.00	0			0.00	0.00		0.00	0.00	0			0.00	0.00		0.00	0.00	0	
Fisher's Stouffer's	s	Power Power				r-50% r-50%		-value -value		z Power Power				r-50% r-50%		P-value P-value		Power Power			Power			P-value	
P15.1C/P15.2 2397C/20809			2.50	2.50	•	0.00	0.00		0.423	0	0.00	0.00	~	0.00	0.00	_	1.000	0	0.00	0.00		0.00	0.00		1.000
Habitat Mean	ns		2.50	2.50		0.00	0.00	+			0.00	0.00		0.00	0.00	0			0.00	0.00		0.00	0.00	0	
Fisher's Stouffer's	s	Power Power				r-50% r-50%		-value -value		z Power Power				r~50% r~50%		P-value P-value		Power			Power-			P-value	
P15,1C/P15.1 2397C/20809			0.00	0.00	•			-		0	0.00	0.00						0	0.00	0.00					
Habitat Mear	c.s		0.00	0.00							0.00	0.00							0.00	0.00					
Fisher's Stouffer's		Power Power				r-50% r-50%		-value -value		Power Power				r~50% r~50%		P-value P-value		Power Power			Power Power			-value	

x At least one site pa_{2T} p-value < p.100 in opposite direction of overall tests. y Direction of difference between habitat means is different than direction of overall tests. 2 Only one site pair.

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

				N	eorhod	lome1a	/Rhodome1	a (P) (a)					Odon	thalia	flocco	84 (P)				Mozphol	ogical	Group:	Fine 1	Filament	ous Rec	lø
	1	Mvd	1 N	С	SE	N	0	SE	ÇV	D	Р	N	c	SE	N	0	SE	CA D	P	N	С	SE	N	٥	SB	CV D	P
	.1C/P15 7C/2080		0 2	0.00	0.00	-	0.00	0.00		0 1	.000	0	0.00	0.00	0 3	0.00	0.00	- 0	1.000	•	0.00	0.00		0.00	0.00	- 0	1.000
Hab:	itat Me	ans		0.00	0.00)	0.00	0.00		0			0.00	0.00		0.00	0.00	0			0.00	0.00		0.00	0.00	0	
	sher's ouffer	's	Power Power				c-50% c-50%		P-valı P-valı			Power Power			Power Power			P-value P-value		1 10,01			Power Power			P-value P-value	
	1C/P15 7C/2080			0.83	0.83	~	0.00	0.00		. 0	.423	3	1.67	1.67	0	0.00	0.00	- +	0.423		0.00	0.00		0.00	0.00	- 0	1.000
Habi	itat Me	ans		0.80	0.80	}	0.00	0.00		+			1.70	1.70		0.00	0.00	-			0.00	0.00		0.00	0.00	0	
	sher's ouffer		Power Power				r-50% r-50%		P-valı P-valı			Power Power			Power Power	-50% -50%		P-value P-value					Power -			P-value P-value	
	1C/P15			0.00	0.00	•		~-	-			0	0.00	0.00	0			-			0.00	0.00				-	
Habi	itat Me	ans		0.00	0.00)		~-					0.00	0.00							0.00	0.00					
	sher's	· «	Power Power				r-50% r-50%		P-vali P-vali			Power			Power Power	-50% -50%		P-value P-value		1000	~		Power -			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 babitat numbers is different than direction of overall tests.
y only one site pair.

lable C-5.262: Page 3. December 15, 1994

		Poly	gaipho	nia/Pt	erosipho	mia (A) (a)													
Rina Pair Mv	d N	C	SE	e e	0	SE	CV	D	P		 •	•	SE		-		-	 ***	-	
2397C/20809 1	2	0.00	0.00		0.00	0.0		0	1.000											
Habitat Means Fisher's Stouffer's	Power Power		0.00	Powe:	-50%		P-va	lue		z Power Power	 Power-			P-value P-value		Power Power		 Power- Power-		P-value P-valuc
P15.1C/P15.1 2 2397C/20809 2		0.00	0.00	3	0.00	0.0	0 -	0	1.000											
Habitat Means Fisher's Stouffer's	Power Power	0.00	0.00	Power Power			0 P-va P-va			z Power Power	 Power-			P-value P-value		Power Power		 Power-		P-value P-value
215.1C/P15.1 3 2397C/20809 3		0.00	0.00																	
Mabitat Means		0.00	0.00			-	-													
Fisher's Stouffer's	Power Power			Power			P-va P-va			Power Power	 Power-			P-value P-value		Power Power		 Power-		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 then direction of overall tests. z Only one site pair.

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 = moter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability Value; dashes insufficient data.

					Bala	nomorpha								L	ottiidae								3	ytilus			
Site Pair	Mvd	N .	c	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	CΛ	ם	P	14			41	9	90	9	-
P15.1C/P15.1 2397C/20809	1 1	0 2	56.25	43,75		0.00	0.00		+	0.356	0 2	0.00	0.00		0.00	0.00	-		1.000	0 2	0.00	0.00	3	0.00	0.00	- - o	
Habitat Mean			56.30	43.80		0.00	0.00		+			0.00	0.00		0.00 er-50%	0.00	P-val	0		z Power	0.00	0.00		0.00 r-50%	0.00	o P-value	
Fisher's Stouffer's		Power Power			Power						z Power Power				r-50%		P-val			Power				r-50%		P-value	
P15.1C/P15.	1 2		40.00	28.43	•	21.67	15.83		_	0.637	0	0.00	0.00	~	0.00	0.00		0	1.000	0 3	1.67	1.67		2.50	1.44		0.627
2397C/20809 Habitat Mean		3	40.00	28.40		21.70	15.80		+			0.00	0.00		0.00	0.00		0			1.70	1.70		2.50	1.40	- P-value	
Fisher's Stouffer'		Power Power			Power			P-va P-va			Power Power				er-50% er-50%		⊋-val P-val			Power Power				r-50% r-50%		P-value	
P15.1C/P15. 2397C/20809	1 3	0	11.25	1.25							0 2	0.00	0.00							0	3.75	3.75	0				
Habitat Mea			11.30	1.30								0.00	0.00							_	3.80	3.80		r-50%		P-value	
Fisher's Stouffer'		Power Power				r-50% r-50%		P-va			Power Power				er-50% er-50%		P-val P-val			Power				2-50%		P-value	

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

Table C-5.263, Page 1, December 15, 1994

				Litt	orinidae					_																
Site Pair Mvd	- N	C	9E	N	0	SE	CV :	D P	N	С	52	N	٥	SE	CV	D	P	N	С	SE	Ŋ	0	SE	CV	D	P
P15.1C/P15.1 1 2397C/20809 1	0	0.00	0.00	0 3	0.00	0.00		1.000																		
Habitat Means		0.00	0.00		0.00	0.00		0							- ,						Power	-50%		P-val	16	
Fisher's Stouffer's	Power Power			Power Power			P-valu P-valu		z Power Power			Power- Power-						Power			Power			P-val		
P15.1C/P15.1 2 2397C/20809 2	0	0.00	0.00		0.00	0.00		0 1.000																		
Habitat Means		0.00	0.00		0.00	0.00		0													Power	-50%		P-val	16	
Fisher's Stouffer's	Power Power			Power Power			P-valu P-valu		z Power Power			Power-			P-valu P-valu			Power Power			Power			P-val		
P15,1C/P15.1 3 2397C/20809 3		0.00	0.00																							
Habitat Means		0.00	0.00															Davior			Power	-50%		P-val	:e	
Fisher's	Power			Powe:	c-50% c=50%		P-valu P-valu		20			Power-			P-valı P-valı			Power			Power			P-val		

 ${\bf x}$ A: least one site pair p-value < 0.100 in opposite direction of overall tests. y Direction of difference between habitat reams is different than direction of overall tests. z Only one site pair.

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 = colled mean; CV = coefficient of variation; SE = standard error; D - direction of difference; + - control > ciled; - = control < ciled; o = control = ciled; P = probability value; dashes insufficient data.

	pair Myd N C SE N				Rock									Mud								Sand			
Site Pair M	evd n	c	SE	N	0	82	ÇV	D	P	N	С	92	N	0	SE	CV r	Ţ	10	C	見象	12		07	AT N	
2397C/20809	1 2	37.50	37.50	J 3	100.00	0.00) -	-	0.295	2	0.00	U.00	3	0.00	0.00	- 6	1.0	00 2	0.00	0.00	3	0.00	0.00	- 0	1
Habitat Means	3	37.50	37.50)	100.00	0.00)	-			0.00	0.00		0.00	0.00	c			0.00	0.00)	0.00	0.00	0	
Fisher's Stouffer's	Power Power				er-50% er-50%					z Power Power				r-50% r-50%		-value		z Powe				r-50% r-50%		-value	
P15.1C/P15.1 2397C/20809		6.67	6.67		75.83	14.81		_	0.018	0	5.83	5.83		0.00	0.00			0 23 3	0.00	0.00	- 0	0.00	0.00	- - o	1
Habitat Means	3	6.70	6.70)	75.80	14.80)	-			5.80	5.80		0.00	0.00	+			0.00	0.00)	0.00	0.00	0	-
Fisher's Stouffer's	Power Power				er-50% er-50%					Power Power				r-50% r-50%		-value		z Powo				r-50% r-50%		~value	
P15.1C/P15.1 2397C/20809		6.25	6.25							0	5.00	5.00				-		2	0.00	0.00	0			-	
Habitat Means	1	6.30	6.30)							5.00	5.00							0.00	0.00)				
Fisher's Stouffer's	Power Power				er-50% er-50%					Power Power				r-50% r-50%		-value		Powe				r-50% r-50%		-value -value	

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

Table 0-5.266. Page 1. December 15, 1

			_		She11	Fragment	t a							,	Water							2	oster	a/Phyllosp	adix			
Site Pair	Myd	1 N	C	SE	N	0	ЯE	CA	D	P	N	c	S.R	N	n	g W	ď	, n	12				N	n	G IF	ሶህ	n	D
2397C/20809	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		2	0.00	0.0	0 3	0.00	0.00	0 -	0	1.000
Habitat Mean	กล		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	,	0			0.00	0.0	0	0.00	0.06	0	٥	
Fisher's Stouffer's		Power Power			Power Power	-50% -50%		P-val P-val			z Power Power			Power				alue alue		z Power Power				er-50% er-50%		P-val		
P15.1C/P15.2 2397C/20809			0.00	0.00		0.00	0.00	_	0	1.000	0	0.00	0.00		0.00	0.00		- - o		0	0.00	0.0		0.00	0.00	_	0	1.000
Habitat Mean	វាន		0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		О			0.00	0.0	0	0.00	0.00	0	0	
Fisher's Stouffer's		Power Power			Power Power			P-val P-val		:	Power Power			Power			P-va P-va	ılue		Power Power				er-50% er-50%		P-val P-val		
P15.1C/P15.1 2397C/20809			1,25	1.25							0 2	0.00	0.00	0						0 2	0.00	0.0				_		
Habitat Mean	ດຮ		1.30	1.30								0.00	0.00								0.00	0.0)			-		
Fisher's Stouffer's		Power Power			Power Power			P-val: P-val:			Power Power			Power Power			P-va P-va	luc lue		Power Power				r-50% r-50%		P-val P-val		

 ${\bf x}$ At least one site pair p-value c 0.100 in opposite direction of overall tests. γ Direction of difference between habital means is different than direction of overall tests. z Oriy one site pair.

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

					Sand	and Mud	1						Tota1	Substrat	e										
ite Pair	_ Mvd	N	С	88	N	0	SE	CV D	P	N	С	ge	И	0	SE	ÇV D	P	N	С	SE	N	0	SE	GA I)
5.1C/P15.1 97C/20809	1	0	0.00	0.00		0.00	0.00	- 0	1.000	0 2		37.50		100.00	0.00		0.295								
abitat Mean			0.00	0.00		0.00	0.00			z Power	37.50	37.50		100.00 r-50%	0.00	- -value		Power			Power			P-value	
Fisher's Stouffer's		Power Power			Powe:	-50% -50%		P-value P-value		Power			Powe	r-50%		-value		Power			Power	-50%		P-valu(2
15.1C/P15.1 397C/20809			5.83	5.83		0.00	0.00		0.423	0 3	12.50	12.50	3	75.83	14.81										
abitat Mean			5.80	5.80		0.00	0.00) .				12.50		75.80	14.80	- P-value		Power		* -	Power	- 50%		P-value	2
Fisher's Stouffer's		Power Power				r-50% r-50%		P-value P-value		z Power Power				er-50% er-50%		P-value		Power			Power			2-valu	8
15.1C/P15.1 397C/20809	1 3		6.25	6.25	0	 - -				0 2	12.50	12.50	0												
abitat Mean			6.30	6.30	ı			-			12.50	12,50						D			Power	<u>-50%</u>		P-valu	e
Fisher's		Power				r-50%		P-value		Power				er-50% -r-511%		P-value P-value		Power Power			Power			P-valu	

Table U 5.26%, Page 3. December 15, 1994

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

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 cited site pairs. MVD = meter vertical drop; N = sample size; C = control mean; 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	Diver	sity Ind	(a)						Alga	1 Tax	ka Richner	sa (b)				_			Tot	al Algae				
Site Pair	Mvd	1 N	C	SE	N	0	SE	CA	D	P	N	С	SE	N	0	ŜE	cv	D	P	N	С	SE	N	0	SE	ÇV	D	P
19C/19 1642C/833 4537C/979		3 0	0.00	0.00	-	0.00	0.00		0	1.000	3 0	0.00	0.00	_	0.33	0.33		-	0.423	3 0	0.00	0.00	0 3 3	1.67	1.67 0.00		-	0.423
Habitat Mea	ns		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 Stouffer's	s	Power Power			Power						Power				r-50% r-50%		e-valu e-valu		7	Power Power				r-50% r-50%	I			z
19C/19 1642C/833 4537C/979	2	0 3 0	0.11	0.08	3	0.16 0.00	0.16	-	-	0.798	0 3 0	1.33	0.67	3	2.00 0.33	1.53 0.33	- - -	-	0.720	0 E 0	25.00	17.02	0 3 3	48.33 4.17	25,22 4.17	-	-	0.586
Habitat Mea	ns		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 Stouffer's	s	Power Power			Power Power					ya	Power Power				r-50% r-50%		-valu		yz	Power Power				r-50% r-50%	}			z
19C/19 1642C/833 4537C/979		0 2 0	0.40	0.01	1	0.00	0.00	-	+		0 2 0	3.50	0.50	1	1.00	0.50	-	4	 	0 5 0	40.00	17.50	0 1 2	100.00 48.75	 48.75	-	-	-
Habitat Mea	ns		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 Stouffer's	s _	Power Power			Power Power						Power Power				r-50% r-50%	F	-valu -valu			Power Power				r-50% r-50%	E	-valu -valu		

(e) 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 overal) tests. 2 Only one site pair.

Table C 5.265. Page 1. December 15, 1994

				To	otal 1	nvertebra	tes					_			Rock							Perent	nials (P)		
Site Pair	Mv	1 N	С	SE	N	0	SE	CA	D	P	N	c	SE	N	0	SE	CV D	P		-			=		m :	=
19C/19 1642C/833 4537C/979		0 3 0	0.00	0.00	3	5.00 0.83	5.00 0.83	- - -	-	0.423	0 3 0	100.00	0.00	3	93.33 99.17	6.67 0.83	- - -	0.42	3 3	0.00	0.00		1.67	1.67 0.00		0.423
Habitat Mea	ns		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 Stouffer'	s	Power Power				¥-50% r-50%		P-valu P-valu			Power Power				er-50% er-50%		-value -value		- » Power - Power			Power-		P		
19C/19 1642C/833 4537C/979	2	0 3 0	1.67	0.83	3	0.83 0.83	0.83 0.83	- - -	+	0.519	0 3 0	73.33	17.64		50.83 95.00	25.43 3.82	- 1	0.60	6 š	22.50	16.65	3	43.33 4.17	24.55 4.17		0.602
Habitat Mea	ir.s		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 Stouffer'	s	Power Power				r-50% r-50%		P-valu P-valu		z	Power Power				er-50% er-50%		-value -value		- Power			Power-		P		
19C/19 1642C/833 4537C/979		0 2 0	0.00	0.00	1	0.00	0.00		0		0 2 0	60.00	17.50	0 1 2	0.00 51.25	 48.75			- 2	7.50	5.00	1 1	.00.00 48.75	 48.75		
Habitat Mea	ins		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 Stouffer'	s	Power Power				r-50% r-50%	I				Power Power				er-50% er-50%		-value -value		-011-1			Power- Power-		P		

 κ At least one site pair p-value < 0.100 in opposite direction of overall tests. y Direction of difference between habitat means is different than direction of overall tests. 2 Only one site pair.

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

					Annu	nals (A)								Epher	merals (Al	B)											
mitt made	14	a w	0	00	NT	n	QP	לעיי	n	P	N	r	S.R.	N	Ω	SE	CY	ם י	P	N	c	SE	N	0	SE	ÇV D	P
19C/19 1642C/833 4537C/979	1	3 0	0.00	0.00	3 3	0.00	0.00		0	1.000	3	0.00	0.00		0.00	0.00	-	-	1.000								
Habitat Mea	ans		0.00	0.00		0.00	0.00	,	0			0.00	0.00		0.00	0.00		0									
Fisher's Stouffer'		Power Power			Power Power			P-val P-val		z	Power Power				r-50% r-50%		P-va P-va			Power Power			Power Power			P-value P-value	
19C/19 1642C/833 4537C/979	2	0 3 0	2.50	1.44	0 3 3	5.00	5.00 0.00	-	-	0.977	0 3 0	1.67	1.67	3	0.00 0.00	0.00	-		0.423								
Habitat Mea	ans		2.50	1.40		2.50	2.50)	-			1.70	1.70		0.00	0.00		+									
Fisher's Stouffer		Power Power			Power			P-val P-val		yz	Power Power				r-50% r-50%		P-va P-va			Power Power			Power Power			P-value P-value	
19C/19 1642C/833 4537C/979		0 2 0	32.50	22.50		0.00	0.00	-			0 2 0	11.25	3.75		0.00	0.00	-	+									
Nabitat Mea	ans		32.50	22.50		0.00	0.00)				11.30	3.80		0.00	0.00											
Fisher's		Power			Power			P-val P-val			Power Power				er-50% er-50%					Power Power			Power Power			P-value P-value	

Table C 5.265. Page 3. December 15, 1994

x At least one site pair p-value < 0.100 in opposite direction of 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. Algal Percent Cover. Chlorophyta. Prince William Sound. Exposed Rocky, July 1991. Cleared September 1989.

Results of statistical differences between means of control and oised site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variati SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

					otal (Chlorophy	ta _				Morp	hologi	cal (Group: Bl	laded Gr	ens				B1a	ded Gr	eens (AE	(a)			
Site Pair	Mvd	N	С	8R	N	0	SE	ÇA D	P	N	c	SE	N	0	SE	CV D	P	N	С	SE	N	0	SE	ÇV I	,	P
1642C/833 4537C/979		3 0	0.00	0.00	3	0.00	0.00 0.00		1.000	3 0	0.00	0.00	3	0.00 0.00	0.00 0.00	- - 0	1.000	3 0	0.00	0.00	3	0.00 0.00	0.00	- - (1	.000
Habitat Mear	ns.		0.00	0.00		0.00	0.00	0			0.00	0.00		0.00	0,00	0			0,00	0.00		0.00	0.00	c		
Fisher's Stouffer's	\$	Power Power			Power Power			P-value P-value		Power Power				r-50% r-50%		-value -value		z Power Power			Power Power			-value		z
19C/19 1642C/833 4537C/979	2	0 3 0	1.67	1.67	3	0.00	0.00	- - -	0.423	0 3 0	0.00	0.00		0.00	0.00 0.00	- - o	1.000	0 3 0	0.00	0.00	3	0.00	0.00	- - c	, 1	.000
Habitat Mear	hs		1,70	1.70		0.00	0.00	+			0.00	0.00		0.00	0.00	0			0.00	0.00		0.00	0.00	-)	
Fisher's Stouffer's		Power Power			Power Power			P-value P-value		Power				r-50% r-50%		-value		z Power Power			Power Power		P	-value		z
19C/19 1642C/833 4537C/979		0 2 0	5.00	5.00	1	0.00 0.00	0.00	- - +		0 2 0	0.00	0.00	i	0.00	0.00	- - o		0 2 0	0.00	0.00	1	0.00 0.00	0.00	- - c)	
Habitat Mear	ns		5.00	5.00		0.00	0.00				0.00	0.00		0.00	0.00				0.00	0.00		0.00	0.00			
Fisher's Stouffer's	9	Power Power			Power Power			P-value P-value		Power Power				r-50% r-50%		-value -value		Power Power			Power Power			-value -value		

(a) Normannia, Monostrone, Diva and Tivaria.
At least one aute out; p-value < 0.00 in opposite direction of overall tests.</p>
y praction of difference between habitat means is different than direction of overall tests.
Only one site pair.

Table C 5.266, Page 1. December 15, 1994

			Morpholog	ical G	Foup:	Fine Fi	lamento	us Gre	ans			Acı	cosipi	honia sp.	(A)				C1:	aetomo	tpha/R	hizoclon	ium (A)	(a)		
Site Pair	Mve	1 14	С	SE	N	0	SE	CV I	P	N	С	SE	N	0	SE	CV I	P	N	С	SE	Ŋ	0	SE	CV :	0	P
19C/19 1642C/833 4537C/979	1 1 1	0 3 0	0.00	0.00	3	0.00	0.00	- - c	1.000	0 3 0	0.00	0.00	0 3 3	0.00	0.00	- - c	1.0	0 00 3 0	0.00	0.00) <u>š</u>	0.00	0.00		0 1	.000
Habitat Mea	ns		0.00	0.00		0.00	0.00	c			0.00	0.00		0.00	0.00	c			0.00	0.00)	0.00	0.00		0	
Fisher's Stouffer'	ŝ	Power Power			Power Power			P-value P-value						r-50% r-50%		P-value P-value		z Power				-50% -50%		P-value P-value		z
19C/19 1642C/833 4537C/979		0 3 0	1.67	1.67	3	0.00	0.00	- +	0.423	0 3 0	0.00	0.00		0.00	0.00	- c	1.0	0 00 3 0	0.00	0.00	; <u>3</u>	0.00	0.00 0.00	- - -	- 1	.000
Habitat Mea	ns		1.70	1.70		0.00	0.00	+			0.00	0.00		0.00	0.00	c			0.00	0.00	1	0.00	0,00)	
Fisher's Stouffer'	\$	Power Power			Power Power			P-value P-value		z Power Power				r-50% r-50%		P-value P-value		2 Power				-50% -50%		P-value P-value		z
19C/19 1642C/833 4537C/979		0 2 0	5.00	5.00	i	0.00	0.00	- +		0 2 0	0.00	0.00		0.00	0.00		-	0 2 0	0.00	0.00	1	0.00	0.00	- 0	,	
Habitat Mea	ns		5.00	5.00		0.00	0.00				0.00	0.00		0.00	0.00				0.00	0.00	•	0.00	0.00			
Fisher's Stouffer's	s	Power Power			Power Power			?-value ?-value		Power Power				r-50% r-50%		P-value P-value		Power				-50% -50%		P~value P-value		

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

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

				c	ladon	hora sp. ((AE)						υ	lothr	ix sp. (2	AE)						τ	Jrospo	ra sp. ()	AE)			
Site Pair	Mvd	N	c	SE	N	0	SE	cv	D	Р	N	С	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	CV	מ	P
19C/19 1642C/833 4537C/979	1 1 1	0 3 0	0.00	0.00	3	0.00	0.00	- -	0	1.000	0 3 0	0.00	0.00	0 3 3	0.00	0.00	-	0	1.000	0 3 0	0.00	0.00		0.00	0.00	-	0	1.000
Habitat Mea	ns		0.00	0.00)	0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		О	
Fisher's Stouffer'		Power Power				er-50% cr-50%		P-val			z Power Power				r-50% r-50%		P-valı P-valı			2 Power Power				r=50% r=50%		-val		7
19C/19 1642C/833 4537C/979	2 2 2	3	1.67	1.67	7 3	0.00	0.00		+	0.423	0 3 0	0.00	0.00	0 3 3	0.00	0.00	-	0	1.000	0 3 0	0.00	0.00	3	0.00	0.00	-	0	1.000
Habitat Mea	_	•	1.70	1.70		0.00	0.00					0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'		Power Power				er-50% er-50%		P-val P-val			z Power Power				r-50% r-50%		P-val			z Power Power				r-50% r-50%		P-val		z
19C/19 1642C/833 4537C/979	3 3 3	0 2 0	5.00	5.00	1	0.00	0.00		+		0 2 0	0.00	0.00	2	0.00	0.00	-	0		0 2 0	0.00	0.00	2	0.00	0.00	-	0	
Habitat Mea	ans		5,00	5.00	J	0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00)	0.00	0.00			
Fisher's		Power				er-50% er-50%		P-val P-val			Power Power				5-20#		P-val P-val			Power Power				r-50% r-50%		P-val P-val		

x At least one site pair p-value < 0.180 in opposite direction of overall tests.</p>
y Direction of difference between babital reams is different than direction of overall tests.
z Only one site pair.

		Mon	phologic	al Gro	oup:	Tubular	and Sac	cate	Gree	ns		Bl	ldingi	a/Ent	teromorpha	1 (AE) (a)											
lta Beir	Merd			SE	N	n	SE	CV	D	P	N	¢	SE	N	0	SB	CV	Ď	P	N	С	88	N	0	SE	CA	D	P
42C/833 37C/979		3	0.00	0.00		0.00	0.00		0	1.000	3 0	0.00	U.UU 		0.00	0.00	-	υ	1.000									
bitat Mea	ns		0.00	0.00		0.00	0.00	1	0			0.00	0.00		0.00	0.00		0										
isher's Stouffer'		Power Power			Power Power			P-val P-val		2	Power Power				er-50% er-50%		-val			Power			Power-			P-va P-va		
C/19 42C/833 37C/979		0 3 0	0.00	0.00	3	0.00	0.00	-	0	1.000	0 3 0	0.00	0.00		0.00 0.00	0.00	-	0	1.000									
bitat Mea	าต		0.00	0.00		0.00	0.0)	0			0.00	0.00		0.00	0.00		0										
Fisher's Stouffer'		Power Power			Power			P-val P-val		;	Power Power				er-50% er-50%		P-val P-val			Power Power			Power-			P-valı P-valı		
C/19 42C/833 37C/979		0 2 0	0.00	0.00	i	0.00	0.0		0		0 2 0	0.00	0.00	1	0.00	0.00	-	0										
bitat Mea	ns		0.00	0.00		0.00	0.0)				0.00	0.00		0.00	0.00												
Fisher's		Power			Power	-50%		P-val P-val			Power Power				er-50% er-50%		2-val 2-val			Power Power			Power			P-val		

(a) Genera not separated.

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

Table C 5.266. Page 3. 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.

					otal	Phaeophyt	a					Morp	hologi	cal G	roup: Bl	aded Br	BIWO						Alari	a sp. (A)			
Site Pair	Mvć	N	С	SE	N	0	SE	ÇV	ם	P	N	С	SE	N	0	SE	ĊΛ	Ď	P	N	С	SE	N	0	52	ÇΫ	ם	P
19C/19 1642C/833 4537C/979		0 3 0	0.00	0.00	3	0.00	0.00	-	0	1.000	0 3 0	0.00	0.00	3	0.00	0.00	-	0	1.000	0 3 0	0.00	0.00	3	0.00	0.00	-		1.000
Habitat Mear Fisher's Stouffer's		Power Power	0.00			0.00 r-50% r-50%	0.00	P-val P-val		;	Power	0.00	0.00		0.00 r-50% r-50%		P-valu P-valu		:	Power	0.00		Power Power		0.00 F	-val		z
19C/19 1642C/833 4537C/979	2	0 3 0	19.17	19.17		44.17 4.17	24.59		-	0.469	0 3 0	18.33	18.33	3	40.83 4.17	24.59 4.17		-	0.491	0 3 0	0.00	0.00	3	0.00	0.00	-	0	1.000
Habitat Mear	ns		19.20	19.20		24.20	14.40	ı	-			18.30	18.30		22.50	14.40		-			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	ş	Power Power				c-50% c-50%		P-val P-val			Power Power				c-50% r-50%		P-valu P-valu		'	Power Power			Power		I			z
19C/19 1642C/833 4537C/979		0 2 0	15.00	7.50	1	100.00 48.75	48.75	-	-		0 2 0	7.50	5.00	1	100.00 48.75	48.75	-	-		0 2 0	0.00	0.00		0.00	0.00	-	0	
Habitat Mean	r.s		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	s	Power Power				r-50% r-50%		P-va P-va			Power Power				r-50% r-50%		P-valı P-valı			Power Power			Power Power		I			

x. At least one site pair p-value < 0.100 in opposite direction of overall bests. y Direction of difference between habital means le different than direction of overall tests. Z Orly one site pair.

Table C 5.267. Page 1. December 15, 1994

				Tota	l Fucu	s gardne:	ri (P)				Adv	lt Fu	cus g	ardneri (P) (> 20	m .)				Juve	nile F	dens de	ardneri	(P) (<=	- 2cm)		
Site Pair	Mvd	N I	С	SE	N	0	SE	CV	D P	N	С	SE	N	0	SE	CA E		P	N	c	SE	N	0	SE	CV	D	P
19C/19 1642C/833 4537C/979	1	0 3 0	0.00	0.00	3	0.00	0.00 0.00	-	0 1.00	0 3	0.00	0.00	3	0.00	0.00	- - c		.000	0 3 0	0.00	0.00	3	0.00	0.00			1.000
Habitat Mea Fisher's Stouffer'		Power Power	0.00	0.00		0.00 c-50% c-50%		P-valu P-valu			0.00	0.00	Powe	0.00 er-50% er-50%		o-value value-value	2	;	Power Power	0.00		Power			P-val P-val		z
19C/19 1642C/833 4537C/979	2	0	18.33	18.33	3	40.83 4.17	24.59 4.17		- 0.49	1 3	9.17	9.17	3	40.00	24.66 4.17		. (0.339	0 3 0	9.17	9.17	3	0.83 0.00	0.83	3 -	٠	0.531
Habitat Mea			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'	5	Power Power				r=50% r=50%		P-valu P-valu						er-50% er-50%		P-value P-value		:	Power Power			Power Power			P-val P-val		>
19C/19 1642C/833 4537C/979		0 2 0	7.50	5.00	1	100.00 48.75	 48.75	-		- ž	7.50	5.00	ĭ	100.00 48.75	48.75		-		0 2 0	0.00	0.00	1	0.00	0.00		0	
Habitat Mea	ins		7.50	5.00		74.40	48.80				7.50	5.00		74.40	48.80					0.00	0.00	1	0.00	0.00	0		
Fisher's Stouffer'	s	Power Power				r-50% r-50%		P-valu P-valu						er-50% er-50%		P-value P-value			Power Power			Power Power			P-va. P-va.		

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

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

			Fu	cus St	ipes (P)	(a)				Mc	rphologic	al Gr	oup:	Coarse I	lament	OUB	Brow	ms			Ana	lipus	japonicu	s (P)			
				17	^	00	щr	ħ	B	N	۲	SE	N	n	SE	CY	D	P		-			^	απ	<i>.</i>		n
19C/19 1 1642C/833 1 4537C/979 1	0 3 0	0.00	0.00	3	0.00 0.00	0.00	-	О	1.000	3 0	0.00	0.00	3	0.00	0.00		-	1.000	3 0	0.00	0.00	3	0.00	0.00	- o -		.000
Habitat Means		0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		О			0.00	0.00		0.00	0.00	0		
Fisher's Stouffer's	Power				r-50% r-50%		P-val		:	Power Power				r-50% r-50%		P-va P-va			Power Power			Power Power			P-value P-value		*
19C/19 2	3	0.00	0.00	3	0.00 0.00	0.00	-	o	1.000	0 3 0	0.83	0.83	0 3 3	3.33 0.00	3.33 0.00	-	-	0.673	0 3 0	0.00	0.00	3	0.00	0.00	- - c	1	.000
Habitat Means		0.00	0.00		0.00	0.00		o			0.80	0.80		1.65	1.65		-			0.00	0.00		0.00	0.00	c		
Fisher's Stouffer's	Power Power				r-50% r-50%		P-val P-val		:	Power Power				er-50% er-50%		P-va P-va			<pre>2 Power Power</pre>			Power Power			P-value P-value		z
19C/19 3 1642C/833 3 4537C/979 3		0.00	0.00	1	0.00	0.00	-	0		0 2 0	1.25	1.25	1	0.00	0.00	-	+		0 2 0	0.00	0.00	1	0.00	0.00	- - c	•	
Habitat Means	•	0.00	0.00		0.00	0.00	1				1.30	1.30		0.00	0.00	l				0.00	0.00	÷	0.00	0.00			
Fisher's Stouffer's	Power Power				r-50% r-50%		P-val P-val			Power Power				er-50% er-50%		P-va P-va			Power Power			Power Power	r-50% r-50%		P-value P-value		

(a) Dead Fucus plants or stipes without blades.

x At least one site pair p-value < 0.100 in opposits direction of overal, tests.</p>
y Direction of difference between habitat means is different than direction of overall tests.
2 Only one site pair.

Table C-5.267. Page 1. December 15, 1994

2 Only one site	pair.			nie	ctvos	iphon sp.	(A)				му	elophy	cus/	Scytosipho	on (A) (a)			:	Morpho	logical (Group:	Fine F	ilamento	us Bro	wns	1
sita beir	Mor	4 N	٠	AR.	N	0	SE	CV 1	P	, N	¢	SE	n	0	SE	cv	Ð	P	N	С	SE	N	0	SE	CV :	D	P
1642C/833 4537C/979		3		0.00		0.00	0.00			00 3	0.00	U.UU 		U.UU 0.00	0.00	-	υ	1.000	0		v		0.00	0.00	- ,	-	
Habitat Mca	ns			0.00		0.00	0.00		0		0.00	0.00		0.00	0.00		0				0.00		0.00	0.00	•)	
Fisher's Stouffer'		Power Power				r-50% r-50%		P-value P-value		z Power				er-50%		P-valu P-valu			Power Power			Power			P-valu P-valu		s
19C/19 1642C/833 4537C/979	2	0 3 0		0.00	3	0.00	0.00		10	0 3	0.83	0.83		3.33	3.33	-	-	0.673	0 3 0		0.00	3	0.00	0.00	-	5 1	1.000
Habitat Mea				0.00		0.00	0.00		5		0.80	0.80		1.65	1.65		-				0.00		0.00	0.00		D	
Fisher's Stouffer'		Power Power				er-50% er-50%		P-valu P-valu		z Power				er-50% er-50%		P-valu P-valu			z Power Power			Power Power	-50% -50%		P-valu P-valu		z
19C/19 1642C/833 4537C/979	3	2		0.00	1	0.00 0.00	0.00	-	0 -	0 2 0	1.25	1.25	1	0.00	0.00	-	-		0 2 0		1.25	1	0.00	0.00	-		
Habitat Mea	_			0.00		0.00	0.00)			1.30	1.30		0.00	0.00						1.30)	0.00	0.00			
Fisher's		Power Power				er-50% er-50%		P-valu P-valu		Power				er-50% er-50%		P-valu P-valu			Power Power				r-50% r-50%		P-valu P-valu		

⁽a) Genera not separated.

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

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

			Fir	ne Fila	amento	us Browns	(AE)	(b)				Morph	ologic	:a1 G	roup: Sa	ccate B	rowns					Leathe	sia/C	olpomenia	(A) (a)			
Site Pair	Mvc	ı N	c	SE	N	0	SE	CV	ם	P	N	С	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	CV	מ	P
19C/19 1642C/833 4537C/979	1 1 1	0 3 0	0.00	0.00	3	0.00	0.00	-	٥	1.000	0 3 0	0.00	0.00		0.00 0.00	0.00 0.00	-	o	1.000	0 3 0	0.00	0.00	3	0.00	0.00	-	0 :	1.000
Habitat Mea Fisher's Stouffer'		Power Power	0.00	0.00	Power			P-vai P-val		;	Power Power	0.00	0.00		0.00 r-50% r-50%		P- va l P-val			z Power Power	0.00		Powe	0.00 r-50% r-50%		-valu -valu		z
19C/19 1642C/833 4537C/979	2	3	0.00	0.00	•	0.00 0.00	0.00	-	0	1.000	0 3 0	0.00	0.00	3	0.00	0.00	-	0	1.000	0 3 0	0.00	0.00	3	0.00	0.00	- - -	0	1.000
Habitat Mea	ans	Power	0.00	0.00	Power	0.00		P-val		;	Power	0.00	0.00	Powe	0.00 er-50%		P-val			z Power	0.00		Powe	0.00 r-50%		-valu		z
Stouffer' 19C/19 1642C/833 4537C/979	's 3 3	Power 0 2 0	6.25	1.25	1	0.00 0.00	0.00	_	ue +		Power 0 2 0	0.00	0.00	0	0.00 0.00	0.00	-	ue o		Power 0 2 0	0.00	0.00	0	0.00 0.00	0.00	?-valu - -	.е	
Habitat Mea Fisher's Stouffer		Power Power	6.30	1,30	Power Power			P-val P-val			Power Power	0.00 	0.00	Powe	0.00 er-50% er-50%		P-val P-val			Power Power	0.00 - -		Powe	0.00 2-50% 2-50%		P-valu P-valu		

(b) Elachiata, Sctocarpus and Pilayella.

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

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

z Only one site	pair.																									•		
				Sora	nther	a ulvoide	a (A)					Morph	ologic	al Gr	oup: Cru	stose B	IOMDB					Ralfs	ia/Pet	roderma	(P) (a)			
Site Pair	Mvd	N	С	SE	N	0	SE	CA	D	P	N	c	SE	N	0	SE	CV	D	P	N	C	SE	N	0	SE	cv	D	P
19C/19 1642C/833 4537C/979	1 1 1	0 3 0	0.00	0.00	3	0.00 0.00	0.00	-	٥	1.000	0 3 0	0.00	0,00	3	0.00	0.00 0.00	- - -	0	1.000	0 3 0	0.00	0.00	3	0.00	0.00	-	0 :	1.000
Habitat Mea	ns		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'		Power Power				r-50% r-50%					z Power Power				r-50% r-50%		P-valı P-valı			z Power Power			Power Power	-50% -50%		-valu -valu		z
19C/19 1642C/833 4537C/979	2 2 2	3	0.00	0.00	ğ	0.00 0.00	0.00	-	o	1.000	0 3 0	0.00	0.00	3	0.00	0.00 0.00	-	0	1.000	0 3 0	0.00	0.00		0.00	0.00 0.00	-	0 :	1.000
Habitat Mea	ns		0.00	0.00		0.00	0.00)	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'		Power Power				r-50% r-50%		P-va P-va			z Power Power				r-50% r-50%		-valu			z Power Power				:-50% :-50%		-valu -valu		z
19C/19 1642C/833 4537C/979	3 3 3	2	0.00	0.00	i	0.00 0.00	 0.00		_		0 2 0	0.00	0.00	1	0.00	0.00	-	o		0 2 0	0.00	0.00	0 1 2	0.00	0.00		O	
Habitat Mea	ເກຣ	-	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'		Power Power				r-50% r-50%		P-va P-va			Power Power				r-50% r-50%		P-valu P-valu			Power Power				-50% -50%		P-valu P-valu		

⁽a) Geneta not superated. X A: Least one site pair p-value < 0.100 in opposite direction of 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. 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; P = probability value; dashes = insufficient data.

					1	Rhodophy	+-					Mor	pholog	ical	Group: F	Bladed R	eđa						Bangi	a sp. (AE	3)			
	Mvd		c	gg	N	O	SE	ÇV	D	P		С	ge	N	0	SE	CA	D	P	N	С	SE	N	0	SE	GA I		P
19C/19 1642C/833 4537C/979	1 1 1	0 3 0	0.00	0.00	0	1.67	1.67	-	- 0	.423	0 3 0	0.00	0.00	0 3 3	0.00	0.00	-	-	1.000	0 3 0	0.00	0.00	3	0.00	0.00	- 0		.000
Habitat Mea Fisher's Stouffer'	ıns	Power Power	0.00		Power Power			e-valu e-valu		z	Power Power	0.00			0.00 er-50% er-30%		P-va P-va			z Power Power	0.00		2owe1	0.00 r-50% r-50%	I	e-value	è	z
19C/19 1642C/833 4537C/979	2	0	4.17	4.17	0	4.17	4.17 0.00	-	o 1	.000	0 3 0	0.00	0.00	_	0.00	0.00	-	_	1.000	0 3 0	0.00	0.00	3	0.00	0.00	- (000
Habitat Mea Fisher's Stouffer'		Power	4.20			2.10 c-50% c-50%		P-valu		yz	Power	0.00	0,00	Powe	0.00 er-50% er-50%		P-va P-va			z Power Power	0.00		Power	r-50% r-50%	1	P-value P-value	2	z
19C/19 1642C/833 4537C/979	3	0 2 0	20.00	20.00	0	0.00	0.00		+		0 2 0	0.00	0.00	i	0.00	0.00	-	. 0		0 2 0	0.00	0.00	1 2	0.00 0.00	0.00	-	>	
Habitat Mea		Power			Powe	0.00 r-50% r-50%		P-valı P-valı			Power Power	0.00	0.00	Pow	0.00 er-50% er-50%		P-va P-va			Power Power	0.00		Powe	r-50% r-50%		P-valu P-valu		

x At least one site pair p-Value < 0.100 in opposite direction of overall tests, y Direction of difference between habitat means is different than direction of overall tests, i only one site pair.

Table C-5.268. Page 1. December 15, 1984

				Jigart	inaces	e Group	(P) (a)						P	almar	ia spp.	(A)						Ph	ycodry	e riggii	(A)			_
Site Pair	Mvd	N		SB	N	0	SE	cv	D	P	N	С	SE	Ŋ	0	SE	CV	D		·-	Ü			-		ावा -	-	
19C/19 1642C/833 4537C/979	1 1 1	0	0.00	0.00	0 3 3	0.00	0.00	-	0	1.000	0 3 0	0.00	0.00	0 3 3	0.00	0.00	-	0 :	.000	0 3 0	0.00	0.00	3	0.00	0.00	-)
Habitat Mea Fisher's Stouffer'		Power Power	0.00	0.00	Power Power			P-va	lue		Power Power				r-50% r-50%		P-valı P-valı			Power			Powe:	2-50% 2-50%		P-value P-value		-
19C/19 1642C/833 4537C/979	2	0 3 0	0.00	0.00	0 3 3	0.00	0.00	-	0	1.000	0 3 0	0.00	0.00	3	0.00	0.00	-	0]	1.000	0 3 0	0.00		3	0.00	0.00	- (1.000)
Habitat Mea		Power	0.00	0.00	Power	0.00	0.00	P-va			z Power Power	0.00	0.00	Powe	0.00 r-50% r-50%		P-val			z Power Power	0.00		Power	0.00 r-50% r-50%		P-value P-value		- z
Stouffer' 19C/19 1642C/833 4537C/979	3	0 2 0	0.00	0.00	i	0.00 0.00	0.06	-	0		0 2 0	0.00	0.00	0	0.00	0.00	-	0		0 2 0	0.00	0.00	2	0.00	0.00	- 1	 	-
Habitat Mea		Power Power	0.00	0.00	Power	0.00 c-50% c-50%	0.00 	P- v a P- v a			Power Power	0.00	0.00	Powe	0.00 r-50% r-50%		P-val P-val			Power Power	0.00		Powe	0.00 r-50% r-50%		P-valu P-valu		

(a) Chondrus, Iridana, Mastocarpus and Rhodoglossum.

x At least one site pair p-value < 0.180 in opposite direction of overall tests.
y Direction of difference between Nabital means is different than direction of overall tests.
z Only one site pair.

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

				1	Porph	yra sp. (A)					r	okida	iendr	on kurile	nsis (A)				Morpholo	gical G	roup:	Coarse	Filamen	tous R	eds	
Site Pair	Mvd	N N	С	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	cv	D	P	N	c	SE	N	0	SE	CV :	D	P
19C/19 1642C/833 4537C/979	1	0 3 0	0.00	0.00	3	0.00	0.00	- - -	0	1.000	0 3 0	0.00	0.00	3	0.00	0.00	-	0	1.000	0 3 0	0.00	0.00	3	1.67	1.67	-	- 0	.423
Habitat Mea	ns		0.00	0.00		0.00	0.00		O			0.00	0.00		0.00	0.00		Ф			0.00	0.00		0.85	0.85		-	
Fisher's Stouffer'		Power Power				r-50% r-50%		P-val P-val			Power Power				r-50% r-50%		P-va P-va			z Power Power				r-50% r-50%		-valu		z
19C/19 1642C/833 4537C/979	2	0 3	0.00	0.00	3	0.00	0.00	-	o	1.000	0 3 0	0.00	0.00	0 3 3	0.00	0.00	-	-	1.000	0 3 0	4.17	4.17	3	3.33	3.33 0.00	-	- 0	0,939
Habitat Mea			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			4.20	4.20		1.65	1.65		+	
Fisher's Stouffer'		Power Power				er-50% er-50%		P-val P-val			z Power Power				2x-50% 2x-50%		P-va P-va			z Power Power				er-50% er-50%		P-valu P-valu		z.
19C/19 1642C/833 4537C/979	3 3 3	0 2 0	0.00	0.00	Ĭ	0.00	0.00		٥		0 2 0	0.00	0.00	1	0.00	0.00	_	0	 	0 2 0	20.00	20.00	2	0.00	0.00	-	٠	
Habitat Mea	ns		0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00	l				20.00	20.00		0.00	0.00			
Fisher's		Power Power				er-50% er-50%		P-val P-val			Power Power				er-50% er-50%		P-va P-va			Power Power				er-50% er-50%		P-valu P-valu		

x At least one site pair p-value ϵ 0.100 in opposite direction of overall tests. Of difference between habital means is different than direction of overall tests. Only one site pair.

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

2 Only one site	pair.												Pada	a1 = 4 i	a muricat	-a (P)						Gloi	opelt.	is furçat	a (A)		
				Crypt	osiph	onia wood	111 (A)						Ande	CIACI	a marroa											<i>a.</i> .	
Site Pair	Mvd	N	С	ge	N	0	SE	CV	Þ	P	N	c	SE	N	0	SE	ĊV	D	P	N	С	SE	N	0	SE	CV D	P
19C/19 1642C/833 4537C/979	1 1 1		0.00	0.00	3	0.00	0.00) –	0	1.000	0 3 0	0.00	0.00	0 3 3	1.67	1.67 0.00	-	-	0.423	0 3 0	0.00	0.00	3	0.00	0.00	- - o	1.000
Habitat Mea	ns		0.00	0.00		0.00	0.00	1	o			0.00	0.00		0.85	0.85		-			0.00	0.00		0.00	0.00	0	
Fisher's Stouffer'		Power Power				r-50% r-50%		P-val P-val			z Power Power				r-50% r-50%		P-val P-val			z Power Power				-50% -50%		-value -value	
19C/19 1642C/833 4537C/979	2 2	0 3 0	0.00	0.00	3	0.00	0.00) –	0	1.000	0 3 0	0.00	0.00		0.00	0.00		0	1.000	0 3 0	0.00	0.00	3	0.83	0.83		0.423
Mabitat Mea			0.00	0.00		0.00	0.00)	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.40	0.40	-	
Fisher's Stouffer'		Power Power				r-50% r-50%		P-va P-va			z Power Power				r-50% r-50%		P-val P-val			z Power Power				r-50% r-50%		-value -value	
19C/19 1642C/833 4537C/979	3	0 2 0	20.00	20.00	1	0.00	0.00	-	+		0 2 0	0.00	0.00	1	0.00	0.00	-	0		0 2 0	0.00	0.00	1	0.00	0.00	- 0	
Habitat Mea		•	20.00	20.00	+	0.00	0.0					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00		
Fisher's Stouffer'		Power Power				r-50% r-50%		P-va P-va			Power Power				r-50% r-50%		P-val P-val			Power Power				r-50% r-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 hermoon habitat means by different than direction of overall tests. z Only one site pair.

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

			••-		7 • /*	Rhodomela	- (B) (. 1				Odon	thali	a floccos	a (P)						Ptilo	ta/Nec	ptilota	(P) (b)			
Site Pair	Mvd	N .		SE	N N	0	SE	cv	D	P N	c	SE	N	0	SE	CV D	P		7	c	SE	N	0	SB	CΔ	D	P
19C/19 1642C/833 4537C/979	1 1	0 3 0	0.00	0.00	3	0.00	0.00	-	o 1.	0 000 3 0	0.00	0.00	•	0.00	0.00	- - 0	1.0	00 3	3	0.00	0.00	3	0.00	0.00	-	0	1.000
Habitat Mean	r.s	Power	0.00	0.00	Power			P-val		z Power		0.00	Powe:	0.00 r-50% r-50%		o P-value P-value	-		wer	0.00			0.00 r=50% r=50%		P-vali		z
Stouffer's 19C/19	s 2 2	Power 0 3	0.00	0.00		-50% 0.00	0.00	P-val - -		Power 0 .000 3	4,17	4.17		2.50	2.50	- 4	0.8	63	3	0.00	0.00	3	0.00	0.00 0.00		o	1.000
1642C/833 4537C/979 Habitat Mea	2		0.00	0.00	3	0.00	0.00	-	0	0	4.20	4.20	-	1.25	0.00 1.25				J	0.00	0.00		0.00 r-50%	0.00		o	,
Fisher's Stouffer'		Power Power			Power Power			P-val P-val		z Power			Powe	r-50% r-50%		P-value P-value	-		ower O			Power	r-50%		P-val		
19C/19 1642C/833 4537C/979	3 3 3	0 2 0	0.00	0.00	1	0.00	0.00	-	o	0 2 0	0.00	0.00	1	0.00	0.00	- 0			2	0.00	0.00	2	0.00	0.00	-	0	
Habitat Mea	ms	Power	0.00	0.00	Power Power		0.00	P-val		Power			Powe	0.00 r-50% r-50%		P-value P-value			ower	0.00		Powe	r-50%		P-val P-val		-

(a) Genera Eur Meparaceu.

(b) Genera not separated.

1 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. x At least one site pa y Direction of difference y Only one site palf.

Morphological Group: Fine Filamentous Reds Halosaccion glandiforme (A) Morphological Group: Saccate Reds 0 gr. CV D P N C SE ÇV D P CV D N C ØΕ gr. С ٥ Site Pair Mvd N - o 1.000 0.00 0.00 1.000 0.00 0.00 190/19 0.00 0.00 0.00 _ Q 0.00 0 1.000 0.00 0.00 0.00 0.00 0.00 0.00 1642C/833 0.00 0.00 0.00 0.00 1 4537C/979 0.00 0.00 0.00 0 0.00 0.00 0.00 0.00 0.00 0 0.00 0.00 0.00 Habitat Means Power-50% --- P-value --- z Power --- P-value Power-50% --- P-value --- 2 Power Power-50% Power-50% --- P-value Fisher's Power Power Power-50% --- P-value --- P-value Power Power-50% Power ---Stouffer's 1.000 0.00 0.00 0.00 - 0 Ω 0.423 0.00 0.83 190/19 0.00 0.83 0.00 0.83 0.423 0.83 0.00 0.00 1642C/833 0.00 0.00 0.00 0.00 0.00 0.00 0 4537C/979 0.00 0.00 0.00 ٥ 0.00 0.40 0.00 0.00 0.40 0.40 0.00 0.00 0.40 Habitat Means Power-50% --- P-value Power --- P-value Power-50% --- z Power Power-50% --- P-value P-value ---Power-50% Fisher's Power _ _ _ Power-50% --- P-value --- P-value ---Power Power-50% Power ___ Stouffer's ---0 - 0 0.00 0.00 ---0.00 19C/19 0 - 0 0.00 0.00 0.00 0.00 0 ---0.00 0.00 1642C/833 0.00 0.00 0 --0.00 0.00 0.00 0.00 4537C/979 0 0.00 0.00 n nn 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 Habitat Means Power-50% --- P-value ---Power --- P-value Power-50% Power Power-50% --- P-value Power-50% --- P-value ---Fisher's Power ------ P-value Power ------Power-50% ---Power Power-50% --- P-value Stouffer's Power ---

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

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

			Poly	eipho:	nia/Pt	erosipho	nia (A	(a)				Могр	hologi	cal G	Proup: C	rustose	Reds					Crusto	se Co:	ralline A	lgae (P)		
Site Pair	Myd	1 N	Ç	SE	N	0	SE	CV	D	P	N	c	SE	N	ū	SE	CV	D	P	И	r	SP.	'n	n	SE	æ	
1642C/833 4537C/979		.; 0	0.00	0.00	-	0.00	0.00		0	1,000	3 0	0.00	0.00	3	0.00	0.00		0	1.000	3	0.00	0.00		0.00	0.00	- 0	1.000
Nabitat Mea	ins		0.00	0.00		0.00	0.00)	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	0	
Fisher's Stouffer'	's	Power Power			Power Power			P-va P-va			z Power Power				r-50% r-50%		P-vai P-vai			z Power Power				c-50% c-50%		-value -value	
19C/19 1642C/833 4537C/979	2	0 3 0	0.00	0.00	3	0.00	0.00) -	Ó	1.000	0 3 0	0.00	0.00	0 3 3	0.00	0.00		0	1.000	0 3 0	0.00	0.00		0.00	0.00	- - o	1.000
Rabitat Mea	ıns		0.00	0.00		0.00	0.00		0			0.00	0,00		0.00	0.00		0			0.00	0.00		0.00	0.00	0	
Fisher's Stouffer'		Power Power			Power Power			P-va P-va		~	<pre>Power Power</pre>				r-50% r-50%		P-val P-val			2 Power Power				-50% -50%		-value -value	
19C/19 1642C/833 4537C/979		0 2 0	0.00	0.00	Ĭ	0.00	0.00		o		0 2 0	0.00	0.00	0 1 2	0.00	0.00	-	0		0 2 0	0.00	0.00	í	0.00	0.00	- - o	
Habitat Mea	ıns		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'		Power Power			Power Power			P-va P-va		~	Power Power				r-50% r-50%		P-val			Power Power				-50% -50%		-value -value	

(a) Genera not separated.

which has the pair p-value < 0.100 in opposite direction of overall tests. Y direction of difference between habitat means is different than direction of overall tests. Only one site pair.

Table C-5.268. Page 7. December 15, 1994

				Hil	denbra	andia sp.	(P)						Petro	celis (F	•)										
Site Pair	My	ам	c	SE	N	Q	SE	CV D	P	N	С	SE	N	0	SE	CV D	Р	N	r.	SR	Ж	n	SE	מ עיז	P
2642C/833 4537C/979		3 0	0.00	0.00		0.00 00.0	9, 00 0,00	- o	1.000	3 0	0.00	0.00		0.00	0.00	- o -	1.000								
Habitat Mea	ns		0.00	0.00		0.00	0.00	0			0.00	0.00		0.00	0.00	o									
Fisher's Stouffer'	s	Power Power			Power Power			-value		z Power Power			Power Power			-value -value		*			Power			P-value P-value	
19C/19 1642C/833 4537C/979	2	0 3 0	0.00	0.00		0.00	0.00	- - o	1.000	0 3 0	0.00	0.00	3	0.00	0.00	- - o	1.000								
Habitat Mea	ns		0.00	0.00		0.00	0.00	О			0.00	0.00		0.00	0.00	o									
Fisher's Stouffer'	s	Power Power			Power Power			-value		z Power Power			Power Power			-value -value				-~-	Fower Power			2-value P-value	
19C/19 1642C/833 4537C/979	3	0 2 0	0.00	0.00	1	0.00	0.00	- - 0		0 2 0	0.00	0.00		0.00 0.00	0.00	- - 0 -									
Habitat Mea	ıns		0.00	0.00		0.00	0.00				0.00	0.00		0.00	0.00										
Fisher's Stouffer'		Power Power			Power Power			-value -value		Power Power			Power Power			-value -value		2 0 0 =			Power Power			P-value P-value	

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

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 = moter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes insufficient data.

														Bala	anomorpha	ı							Lo	ttlidae				
	_				N ACT	iniidae	SE	cv	D			c	SE	N	0	SE	CV	D	P	N	С	ŞE	N	0	SE	CA 1		P
Site Pair	Mvd	0		SE 					_		0			0						0	0.00	0.00		0.00	0.00	-	o 1	1.000
19C/19 1642C/833	1	3	0.00	0.00	3	0.00	0.00		0	1.000	3	0.00	0.00	3	0.00	0.00	-	О	1,000	0	0.00		3	0.00	0.00	-		
4537C/979 Habitat Mea	ns	O	0.00	0.00	3	0.00	0.00		0			0.00	0.00		0.40	0.40		0			0.00	0.00		0.00	0.00	e-valu	0	7
Fisher's Stouffer'		Power Power				r-50% r-50%		P-val P-val			z Power Power				r-50% r-50%		P-va P-va		y	Power Power				r-50% r-50%		e-valu		
19C/19 1642C/833 4537C/979	2	0 3	0.00	0.00	3	0.00	0.00	-	o	1.000	0 3 0	0.83	0.83	0 3 3	0.83 0.83	0.83 0.83		0	1.000	0 3 0	0.00	0.00	3	0.00	0.00	-		1.000
Habitat Mea	_	•	0.00	0.00		0.00	0.00	,	0			0.80	0.80		0.80	0.80		0			0.00	0.00		0.00	0.00	P-valu	0	7
Fisher's		Power Power				r-50% r-50%		P-va P-va			<pre>power Power</pre>				r-50% r-50%		P-va P-va			z Power Power				r-50% r-50%		P-valu		2
Stouffer' 19C/19 1642C/833	3	0 2	0.00	0.00	0	0.00	0.00	-	0		0 2 0	0.00	0.00	•	0.00	0.00	-	o		0 2 0	0.00	0.00	1	0.00	0.00	-	0	
4537C/979 Habitat Mea	3 ans	0	0.00	0.00	_	0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00	P-valu	_	
Fisher's		Power Power				r-50% r-50%		P-va P-va			Power Power				er-50% er-50%		2-va 2-va			Power				r-50% r-50%		P-valu P-valu		

X At least one site pair p value < 0.700 in opposite direction of overall tests.</p>
Direction of difference between habital means is different than direction of overall tests.
2 only one site pair.

Table C-3.269. Page 1. December 15, 1994

Only one site	pair.					ytilus						N	ucella	a 1amello	88.							Litt	orinidae				
Site Pair	Mvd	N .	c	SE	N M	yerrus O	SE	ÇV I) P	N	С	ge	N	0	SE	CV	D	P	N	С	SE	N	0	SE	ÇV I		P
19C/19 1642C/833 1537C/979	1 1 1	0 3 0	0.00	0.00	3	5.00	5.00	-	- 0.423	0 3 0	0.00	0.00	3	0.00	0.00	-	0	1.000	0 3 0	0.00	0.00	3	0.00 0.00	0.00	- - -		1.000
Mabitat Mea Fisher's Stouffer'		Power Power	0.00		Power Power		2.50 1	-valu	e	z Power Power	0.00	0.00	Power Power			-val:			z Power Power			Power	c-50% c-50%	E	-value		2
9C/19 .642C/833 .537C/979	2 2 2		0.83	0.83	3	0.00	0.00	-	0.423	0 3 0	0.00	0.00	3	0.00	0.00	-	0	1.000	0 3 0	0.00	0.00	3	0.00	0.00	- (1.000
Mabitat Mea Fisher's Stouffer'	ans	Power Power	0.80		Power	0.00 r-50% r-50%		P-valu P-valu	e		0.00	0.00	Power	0,00 r-50% r-50%		P-val P-val			z Power Power	0.00	0.00	Powe:	r-50% r-50%	1	e-value	e	
9C/19 642C/833 537C/979	3	0 2 0	0.00	0.00	0 1	0.00	0.00		o	0 2 0	0,00	0.00	1 2	0.00	0.00	_	0		0 2 0	0.00	0.00	2	0.00	0.00	-	0	
labitat Mea		Power	0.00	0.00	Powe:	0.00 r-50% r-50%		P-valu P-valu			0.00	0.00	Powe:	0.00 r-50% r-50%		P-val P-val			Power Power	0.00		Powe	r-50% r-50%		P-valu P-valu		

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

Mollusca

					m,)TIUBCE																				
Site Pair	Mvd	l N	с	SE	N	0	SE	CV	D	P	N	c	SE	N	0	SE	CV D	P	N	c	SE	N	0	SE	CV D	P
19C/19 1642C/833 4537C/979	1 1 1	0 3 0	0.00	0.00	3	0.00 0.00	0.00	0 -	0	1.000	·															
Habitat Mea	ans		0.00	0.00		0.00	0.00	0	0																	
Fisher's Stouffer'		Power Power			Power Power	c-50% c-50%		P-va P-va		:	Power Power			Power- Power-			P-value P-value		Power Power			Power Power			P-value P-value	
19C/19 1642C/833 4537C/979	2	0 3 0	0.00	0.00	3	0.00 0.00	0.00	o -	0	1.000																
Habitat Mea	ans		0.00	0.00	•	0.00	0.00	0	0																	
Fisher's Stouffer'		Power Power			Power Power	r-50% r-50%		P-va P-va			Power Power			Power-			P-value P-value		Power Power			Power Power			P-value P-value	
19C/19 1642C/833 4537C/979	3	0 2 0	0.00	0.00	1	0.00 0.00	0.00		0																	
Habitat Mea	ans		0.00	0.00	į	0.00	0.00	0																		
Fisher's Stouffer'		Power Power				r-50% r-50%		P-va P-va			Power Power			Power- Power-			P-value P-value		Power Power			Power			P-value P-value	

Table C-5,269, Page 3, December 15, 1954

x At least one site pair p-value < 0.130 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
2 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.

						Rock									Mud									Sand				
Site Pair	Mvć	1 N	c	SE	N	0	SB	CV	D	P	N	С	SE	N	٥	SE	CV I)	P	N	С	SE	N	0	SE	CV D	-	P
19C/19 1642C/833 4537C/979	1 1 1	0 3 0	100.00	0.00	ž	93.33 99.17	6.6° 0.8	7 –		0.423	0 3 0	0.00	0.00	3	0.00 0.00	0.00 0.00	- - c		.000	0 3 0	0.00	0.00		0.00 0.00	0.00 0.00	- - o	1	000
Habitat Mea	ins		100.00	0.00		96.25	3.75	5	_			0.00	0.00		0.00	0.00	c	•			0.00	0.00		0.00	0.00	o		
Fisher's Stouffer'	's	Power Power				r-50% r-50%		P-va P-va			<pre>2 Power Power</pre>				r-50% r-50%		-value		2	Power Power			Power		P	-vaiuc -value		z
19C/19 1642C/833 4537C/979		0 3 0	73.33	17.64 	3	50.83 95.00	25.41 3.82	3 -	+	0.606	0 3 0	0.00	0.00	3	0.00	0.00 0.00	- - c		000	0 3 0	0.00	0.00	3	0.00	0.00	- - o -	1.	000
Habitat Mea	irs		73.30	17.60		72.90	14.60	כ	+			0.00	0.00		0.00	0.00	С	•			0.00	0.00		0.00	0.00	0		
Fisher's Stouffer'		Power				r-50% r-50%		P-va P-va			<pre>Power Power</pre>				r-50% r-50%		-value -value		z	Power Power			Power		P	-value -value		z
19C/19 1642C/833 4537C/979	3 3 3	0 2 0	60.00	17.50	1	0.00 51.25	48.7	-	•		0 2 0	0.00	0.00	1	0.00	 0.00	- - c			0 2 0	0.00	0.00	0 1 2	0.00	0.00	- - o		
Habitat Mea	ar.s		60.00	17.50		25.65	48.8)				0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's Stouffer'	s	Power				r-50% r-50%		P-va P-va			Power Power				r-50% r-50%		~value ~value			Power Power			Power		P			

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

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					Shell	. Fragment	8							Water				_		Zo	stera,	Phyllos:	adix			
Site Pair	Mv	d N	С	SE	N	0	SE	CA 1	P	N	С	SE	N	0	32	CA D	P	N	c	SE	N	0	SE	CV D	;	P
19C/19 1642C/833 4537C/979	1 1 1	0 3 0	0.00	0.00	3	0.00	0.00	- - (1.00	0 00 3 0	0.00	0.00	3	0.00	0.00	- - 0 -	1.000	0 3 0	0.00	0.00	3	0.00 0.00	0.00	- - o	1.	000
Habitat Mea	ins		0.00	0.00		0.00	0.00		,		0.00	0.00		0.00	0.00	0			0.00	0.00		0.00	0.00	o		
Fisher's Stouffer'	ទ	Power Power				r-50% r-50%		P-value P-value		z Power - Power				er-50% er-50%		value value		0 1102			Power Power			-value -value		z.
19C/19 1642C/833 4537C/979	2 2 2	3	0.00	0.00	3	0.00	0.00				0,00	0.00	3	0.00	0.00 0.00	- - 0 -	1.000	0 3 0	0.00	0.00	3	0.00	0.00 0.00	- - o	1.0	000
Habitat Mea	ns		0.00	0.00		0.00	0.00		,		0.00	0.00		0.00	0.00	0			0.00	0.00		0.00	0.00	0		
Fisher's Stouffer'		Power Power				r-50% r-50%		P-value P-value						er=50% er=50%		-value -value		2 10			Power Power			-value -value		z
19C/19 1642C/833 4537C/979	3 3	0 2 0	0.00	0.00	1	0.00	0.00	- -)	- ž	0.00	0.00	0 1 2	0.00	0.00	- - 0 -		0 2 0	0.00	0.00		0.00	0.00	- - o		
Habitat Mea	ins		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'	5	Power Power				r-50% r-50%		P-value P-value		20.742				r-50% r-50%		-value		Power Power			Power Power			-value -value		

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

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

					Sano	d and Mud								Tota1	l Substra	te										
Site Pair	Mvd	N	С	SE	N	0	SE	C1	7 D	P	N	c	SE	N	0	SE	CV D	P	N	С	SE	N	0	SE	CV D	P
19C/19 1642C/833 4537C/979	1 1 1	0 3 0	0.00	0.00	3	0.00 0.00	0.0	b -	- - 0 -	1.000	0 3 0	100.00	0.00	3	93.33 99.17	6.67 0.83	- +	0.423								
Habitat Mea	ins		0.00	0.00		0.00	0.0	0	0			100.00	0.00		96.25	3.75	+									
Fisher's Stouffer'		Power Power				r-50% r-50%		P-v:	alue alue		2 Powe Powe				r-50% r-50%		P-value P-value		Power Power				r-50% r-50%		P-value P-value	
19C/19 1642C/833 4537C/979		0 3 0	0.00	0.00	3	0.00	0.0 0.0	ο .	- - o	1.000	0 3 0	73.33	17.64 	3	50.83 95.00	25.43 3.82	- - -	0.606								
Habitat Mea	ıns		0.00	0.00		0.00	0.0	0	0			73.30	17.60		72.90	14.60	+									
Fisher's Stouffer'		Power Power				r-50% r-50%			aluc alue		z Powe Powe				r-50% r-50%		P-value P-value		Power Power				r-50% r-50%		P-value P-value	
19C/19 1642C/833 4537C/979	3	0 2 0	0.00	0.00	1	0.00	0.0	_	- - o		0 2 0	60.00	17.50 	1	0.00 51.25	 48.75	- - -									
Habitat Mea	ans		0.00	0.00		0.00	0.0	Û				60.00	17.50		25.65	48.80										
Fisher's Stouffer'		Power Power				r-50% r-50%			alue alue		Powe Powe				er-50% er-50%		P-value P-value		Power Power				r-50% r-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 habital means is different than direction of overall tests.
z Only one site pair.

Table C-5.271. Algal Percent Cover. Totals and Seasonal Groups, Cook Inlet/Renai. 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; 0 = control = oiled; P = probability value; dashes . insufficient data.

			Alga	l Dive	ersity In	dex (a)		_				Alga	1 Tab	ka Richne	89 (b)							To	tal Algae				
Site Pair	Mvd N	С	SE	N	o	SE	CV	Þ	P	N	С	SE	N	0	SE	CA E	1	P	N	С	SE	N	0	SE	CA 1	,	P
14.1C/14.1 14.2C/14.2 62762C/50983	1 0 1 0 3 1 3	0.00	0.00	- 0	0.00	0.00	_	0	1.000	0 0 3	0.67	0.33	0 0 3	0.00	0.00	-		 184	0 0 3	2.50	 1.44	Ö	0.00	0.00	-	- 0	.196
Habitat Mear	ns	0.00	0.00)	0.00	0.00		0			0.67	0.33		0.00	0.00	_				2.50	1.40		0.00	0.00			
Fisher's Stouffer's	Power s Power				r-50% r-50%		P-val P-val			z Power Power				r-50% r-50%		P-value P-value		z	Power Power				r-50% r-50%		P-value P-value		z
14.10/14.1 14.20/14.2 627620/50983	2 0 2 0 3 2 2	0.23	0.23	· 0	0.14	0.08	-	+	0.681	0 0 2	3.00	2.00	0 0 3	1.67	0.33	-		 453	0 0 2	71.25	13.75		 30.83	19.70	-		 ,231
Habitat Mean	ns	0.23	0,23	3	0.14	0.08		+			3.00	2.00		1.67	0.33					71.30	13.80		30.80	19.70			
Fisher's Stouffer's	Power B Power				r=5)% r=5)%					2 Power Power				r-50% r-50%		P-value P-value		z	Power				r-50% r-50%		-value		z
14.10/14.1 14.20/14.2 627620/50983	3 0 3 0 3 3 1	 0.77		. 0).22	0.22	-	_	 	0 0 1	8.00		0 0 2	2.00	1.00				0 0 1	 92.50			 48.75	26.25	-		
Habitat Mean	ns	0.77			0.22	0.22					8.00			2.00	1.00					92.50			48.80	26.30			
Fisher's Stouffer's	Power B Power				r-50% r-50%		P-val P-val			Power Power				r-50% r-50%		-value			Power Power				r-50% r-50%		-value		

(al Modified Shannon Index.
(b) Toke richness salekieriens are explained in the methods.

x At least one site pair p-walus < 0.100 in opposite direction of overall tests.</p>
y Direction of difference between habitat means is different thus direction of overall casts, a Only one site pair.

Table C 5.271. Page 1. December 15, 1994

			Ťc	otal I	nvertebr	tes								Rock							Pere	nnials (F)		
St. P_i_	n k	С	Ф	N	0	SE	CV	D	P	N	С	SE	N	0	SE	CV D	P		c	SE	N	0	SE	CV D	P
14.2C/14.2 62762C/50983		(0.00	30.14	0	1.67	1.6		+ 0.	150			31.46	0 0 3	98.33	1.67		-	0 0 51 3	2.50		0 0 3	0.00	0.00	-	 0.196
Habitat Means Fisher's Stouffer's	Power Power			Powe	1.70 r-50% r-50%		P-val P-val		z 1		7.50 			98.30 er-50% er-50%		- value- value	_	z 20we 20we			Powe	0.00 er-50% er-50%		- value -value	z
	2 0 2 0 2 2	5.00	2.50	ō	16.67		 4 -		 541	0 0 2 2	 3.75	 16.25	0 3	 52.50	13.77	-	0.2	o	 60.00	2.50		 28.33	21.28	-	
Habitat Means		5.00	2.50		16.70	10.1	0	-		2	3.80	16.30		52.50	13.80	-			60.00	2.50		28.30	21.30	,	
Fisher's Stouffor's	Power Power				r-51% r-54%		P-val P-val			Þower Þower				r-50% r-50%		-value		- z Powe				r-50% r-50%		-value	
	3 0 3 0 3 1	7.50		0	 11.75		 - - 5 -			0 0 1	 0.00		0 0 2	37.50	25.00			ŏ	 22.50		0 0 2	 40.00	35.00	-	
Habitat Means		7.50			11.80	1.3	σ			(0.00			37.50	25.00				22.50			40.00	35.00		
Fisher's Stouffer's	Power Power			Power Power	r-51% r-51%		P-val P-val			Power Power				r-50% r-50%		-value						r-50% r-50%	P		

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

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

					Ann	uals (A)								Ephem	erals (A	2)										
Site Pair	Mvd	N	С	SE	N	0	SE	CV	D	P	и	С	SE	N	0	SE	CA D	P	N	С	SE	N	0	SE	CV I	P
14.1C/14.1 14.2C/14.2 62762C/50983	1 1 3 1	0	0.00	0.00	Ō	0.00	0.00	-	o	1.000	0 0 3	0.00	0.00		0.00	0,00	- - - 0	1.00								
Habitat Mean	19		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	0									
Fisher's Stouffer's		Power				r-50% r-50%		P-val P- va l		3	Power Power				c-50% c-50%		-value -value		Power Power			Power Power			P-value P-value	
14.1C/14.1 14.2C/14.2 62762C/50983	2		11.25	11.25	Ö	2.50	2.50	-	+	0.532	0 0 2	0.00	0.00		1.67	1.67										
Habitat Mean	15		11.30	11.30		2.50	2.50		-			0.00	0.00		1.70	1.70	-									
Fisher's Stouffer's		Power				r-50% r-50%		P-val P-val			Power Power				r-50% r-50%		P-value P-value		Power Power			Power			P-value P-value	
14.1C/14.1 14.2C/14.2 62762C/50983	3 3 3	Ô	70.00	 	Ö	8.75	8.75	-	+		0 0 1	 17.50		-	0.00	0.00	-		 							
Habitat Mear	าร		70.00			8.80	8.80					17.50			0.00	0.00										
Fisher's Stouffer's		Power Power				r-50% r-50%		P-val P-val			Power Power				r-50% r-50%		P-value P-value		Power Power			Power Power			P-value P-value	

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

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; D = probability value; dashes = insufficient data.

												Morp	hologi	cal G	Group: B	laded Gr	eens					Blac	ded G	гееля (АВ)) (a)			
				ge.	rotal N	Chlorophy	g _B	cv	D	P	N	c	ge	N	0	SE	cv	D	P	N	С	SE	N	0	SE	CV	D	P
Site Pair 14.1C/14.1	Mvd	0						-			0			-			-			0						-		
14.2C/14.2 62762C/50983	1	0	0.00	0.00		0.00	0.00	_	0	1.000	3	0.00	0.00		0.00	0.00		0	1.000	3	0.00	0.00		0.00	0.00	-	0	1.000
Habitat Mear		•	0.00	0.00)	0.00	0.00		0			0.00	0.00		0.00 er-50%	0.00	P-valı	0		z Power	0.00	0.00		r-50%		P-val	ue.	z
Fisher's Stouffer's		Power Power				r-50% r-50%	3	sv-9 5v-va		-	z Power Power				er-50%		P-val			Power				r-50%	1	P-val	ae	
4.1C/14.1 4.2C/14.2	2	0			- 0	0.00	0.00	-	0	1.000	0 0 2	0,00	0.00	ō	0.00	0.00	-	0	1.000	0 0 2	0.00	0.00	ŏ	0.00	0.00	-	0	1.000
52762C/50983 Habitat Mea		2	0.00	0.00		0.00	0.00		0			0.00	0.00	•	0.00	0.00		٥			0.00	0.00		0.00	0.00	P-val	0	7
Fisher's		Power Power				er-50% er-50%		P~va P-va			z Power Power				er-50% er-50%		P-val			z Power Power				r-50% r-50%		P-val		
Stouffer's 14.1C/14.1 14.2C/14.2	- 3 3	0			- 0	0.00	 0.00	-			0	 17.50		ŏ	0.00	0.00	-	,		0 0 1	 		0	0.00	0.00	-	+	
62762C/5098 Habitat Mea		1	17.50 17.50		_	0.00	0.00				_	17.50			0.00	0.00					17.50			0.00 er-50%	0.00	P-va	lua	
Fisher's		Power		-		er-50%		2-va			Power Power				er-50% er-50%		P·val P-val			Power Power				er-50%		P-val		

(a: Kornmannia, Monostroma, Llva and Ulvaria.

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

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

Z Only one site pair.

Table 0-5.272. Page 1. December 15. 1994

z Only one size pair.		Morpholog	ical G	toup:	Fine Fi	lamento	us Gr	eens			Ac	rosip	honia sp.	(A)					Cha	etomor	pha/Ri	hizocloni	um (A)	(a)		
Site Pair Mv			SE	N	0	SE		D	P N	С	SE	N	0	SE	CV	D	P	В	· ·	מט	щ	Ū.	מט	<i>∞</i> .		-
14.1C/14.1 1	0	0.00	0.00	Ö	0.00	0.00	-	0 1	0 0 .000 3	0.00	0.00	0 3	0.00	0.00	-	0	1.000	0 0 3	0.00	0.00	0 3	0.00	0.00			.000
Habitat Means Fisher's Stouffer's	Power Power	0.00	0.00	Power Power	0.00 -50% -50%	0.00	-val		z Powe		0.00	Powe	0.00 2r-50% 2r-50%		P-val P-val	ue		z Power Power			Power	508 508		P-valu P-valu		z
14.1C/14.1 2	0	0.00	0.00	Ŏ	0.00	0.00	-	o 1	0 0 .000 2	0.00	0.0	- 0 0 3	0.00	0.00	. –) –	0	1.000	0 0 2	0.00	0.00	0	0.00	0.00	_	0 1.	.000
Habitat Means Fisher's Stouffer's	Power Power	0.00	0.00	Power Power			P-val P-val		z Powe			Powe	0.00 er-50% er-50%		P-val P-val			, Power Power			Power Power	r-50% r-50%		P-valu P-valu		z
14.1C/14.1 3 14.2C/14.2 3 62762C/50983 3	0 0	0,00		0	0.00	0.00	-	o	0 0 1	0.00		- 0 - 2	0.00	0.00	-) -	o		0 0 1	0.00		2	0.00 0.00	0.00	-	0	
Habitat Means Fisher's	Power	0.00			0.00 r-50%		P-vai		Power				0.00 er-50% e~-50%	0.0	P-va P-va			Power Power				r-50% r-50%		P-valu P-valu		

(a) Conters not separated.

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

y Direction of difference between habital reams is different than direction of overall tests.

2 Only one site pair.

Table C-5.272. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Cleared September 1989. (Continued.)

					- 4		/BP\						σ	lothi	еіж вр. (7	AE)						U	говро	ra sp. (<i>)</i>	E)			
	-				_	ora sp.	SE		, p			С .	SE	N N	0	SE	CV	d v	P	N	c	SE	N	0	SE	CV I	>	P
Site Pair	Mvá	N	Ç	SE	N			_			. 0			Ð						0			0			-		
14.1C/14.1 14.2C/14.2	1	0			ō	0.00	0.0			1.000	0	0.00	0.00	0	0.00	0.00			1.000	0 3	0.00	0.00	•	0.00	0.00	- (0 1	.000
62762C/50983		3	0.00	0.00		0.00	0.0		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's	1	Power		0.00	Powe	r-50%		P-v	alue		z Power Power				r-50%			lue lue		z Power Power				c-50% c-50%		-valu		z
Stouffer's 14.1C/14.1 14.2C/14.2	2 2	0	0.00	0.00	0	0.00			- -	1.000	0 0 2	0.00	0.00	Ö	0.00	0.00			1.000	0 0 2	0.00	0.00	3	0.00	0.00			
62762C/50983 Habitat Mean		2	0.00	0.00		0.00	0.0		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's		Power			Powe	r-50% r-50%	-		alue alue		z Power				er-50% er-50%			alue alue		z Power Power				r-50% r-50%		-valu -valu		;
Stouffer's 14.1C/14.1 14.2C/14.2	3	Power 0 0			- 0			-			0 0 1	 0.00		Ö	0.90	0.00		- - - o		0	0.00	 	Ŏ	0.00	0.00	-	0	
62762C/50983 Habitat Mean		1	0.00		_	0.00	0.0		- 0		-	0.00			0.00	0.00)				0.00			0.00	0.00	- 1		
Fisher's		Power				r-50%			alue		Power Power				er-50% er-50%			alue alue		Power Power				r-50% r-50%	I	P-valu P-valu		

	Mo:	rphologic	al Gro	oup:	Tubular	and Sac	cate Gre	ens		Bl	idingi	2/Ent	eromorpha	L (AE) (1)									—
ite Pair Mvd		c	SE	N	0	SE	CA D	P	N	С	SE	N	0	SE	GA D	P	N	С	SE	N	0	SE	CV D	P
1.1C/14.1 1 1.2C/14.2 1	0		0.00	0	0.00	0.00	-	1.000	0 0 3	0.00	0.00		0.00	0.00	- - - 0	1.000								
762C/50983 1 bitat Means	3	0.00	0.00		0.00	0.00				0.00	0.00		0.00	0.00	0					Power-	E 0.9		P-value	
Fisher's Stouffer's	Power Power			Power			P-value P-value		z Power Power	-			r-50% r-50%		-value -value		Power Power			Power-			P-value	
.1C/14.1 2 .2C/14.2 2 762C/50983 2	0 0 2	0.00	0.00	ō	0.00	0.0	-	2.000	0 0 2	0.00	0.00	0	0.00	0.00	- - o	1,000								
bitat Means		0.00	0.00	Dowe	0.00 r-50%	0.0) o P-value		, Power	0.00	0.00		0.00 r-50%		o value		Power			Power-			P-value P-value	
Fisher's Stouffer's	Power Power				r-50%		P-value		Power			Powe	r-50%		e-value		Power			LOWEL	300			
.1C/14.1 3 .2C/14.2 3 762C/50983 3		 0.00	 	0	0.00	0.0			0 0 1	0.00		ō	0.00	0.00	- - - 0									
abitat Means	-	0.00			0.00	0.0	0			0.00			0.00	0.00			_			Power-	=04		P-value	
Fisher's	Power				r-50%		P-value		Power Power				r-50% r-50%		P-value P-value		Power Power			Power-			P-value	

(a) Genera not separated.

At least one site pair p-value < 0.100 in opposite direction of overall tests.</p>
Direction of difference between habitat means is different than direction of overall tests.
Colly one site pair.

Table C-5.273. Algal Percent Cover. Phaeophyta. Cook Inlet/Renai. 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; A = control > oiled; A = control < oiled; O = control = oiled; P = probability value; dashes = insufficient data.

	_				Total	Phasophy	ta					Morp	hologi	cal C	Proup: B	laded By	оwпв						Alar	ia sp. (A)			
Site Pair	Mvd N		С	SE	N	0	SE	CV	D	P	N	c	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	CV :	D	P
14.1C/14.1 14.2C/14.2 62762C/5098	1 0 1 0 3 1 3		1.67	1.67		0.00	0.0	-	+	0.423	0 0 3	 1.67	1,67	0 0 3	0.00	0.00	_	+	0.423	0 0 3	0.00	0.00	ŏ	0.00	0.00	-	0 :	
Habitat Mea	ns		1.70	1.70		0.00	0.0)	+			1.70	1.70		0.00	0.00		+			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Pov s Pov				Power Power	r-50% r-50%		P-va P-va			z Power Power				r-50% r-50%		P-valu P-valu		;	Power Power	·			r-50% r-50%		P-value P-value		z
14.1C/14.1 14.2C/14.2 62762C/50983	2 0 2 0 3 2 2	5	57.50	0.00	Ō	 27.50	17.7	-	+	0.233	0 0 2	57.50	0,00	Ö	 25.83	18.84	-	+	0.249	0 0 2	 0.00	0.00	Ö	0.00	0.00	_		
Habitat Mear	ns	5	7.50	0.00		27.50	17.7		+			57.50	0.00		25.80	18.80		+			0.00	0.00		0.00	0.00		,	
Fisher's Stouffer's	Pov F Pov				Power Power			P-va P-va			Power Power				r-50% r-50%		-valu		,	Power Power	~			r-50% r-50%	1	P-value	2	z
14.1C/14.1 14.2C/14.2 62762C/50983	3 0 3 0 3 3 <u>-</u>	4	15.00		0 0 2	40.00	35.00	_	-		0 0 1	 45.00			40.00	 35.00	_	_		0 0 1	30.00		o	0.00	0.00	-		
Habitat Mean	28	4	15.00			40.00	35.00	1				45.00			40.00	35.00					30.00			0.00	0.00			
Fisher's Stouffer's	Pow Pow				Power Power			P-val P-val			Power Power				-50% -50%		-valu -valu			Power Power			Power	r-50%	3	e-value		

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

Table C-5.273. Page 1. December 15, 1994

			Tota	l Fuc	us gardne	ri (P)				Ada	ult Fuci	s gardner:	(P) (>	2cm)				Juv	enile F	ucus gard			-	ember 15, 199
Site Pair 1	Mvd N	C	SE	N	٥	SE	CV I	P P	N	С	SE	N O	SE	cv	D	P	N	С	8E		0	88	CV D	P
	1 0 1 0 1 3	1.67	1.67	Ö	0.00	0.00	-	- 0.423	0 0 3	0.00	0.00	0		 	0 1	2.000	0 0 3	1.67	1.67	0	.00	0.00	-	0.423
Habitat Means	s	1.70	1.70)	0.00	0.00		-		0.00	0.00	0.0	0.0	D.	0			1.70	1.70	_	.00	0.00		0.423
Fisher's Stouffer's	Power Power				r-50% r-50%		-value		z Power Power			ower-50%		P-val		2	Power Power			Power-509	ŧ	p	-value	z
	2 0 2 0 2 2	57.50	0.00	ő	25.83	18.84	- -	0.249	0 0 2	 57,50		0 0 3 25.83		 4 -	. (0 0 2	0.00	0.00	•	 .00	0.00	0	
Habitat Means	s	57.50	0.00		25.80	18.80				57.50	0.00	25.80	18.8	0	+			0.00	0.00	-	.00	0.00	a	1.000
Fisher's Stouffer's	Power Power				r-50% r-50%		value v-value		<pre>2 Power Power</pre>			ower-50% ower-50%		P-valu P-valu		z	Power Power			Power-504	ŝ	z	-value	z
	3 0 3 0 3 1	15.00		ŏ	40.00	35.00			0 0 1	 15.00		0 2 40.00	_	 0 -	_		0	0.00		Ö	 .00	0.00	-	
Habitat Means	S	15.00			40.00	35.00				15.00		40,00	35.0	0			_	0.00			.00	0.00	- 0	
Fisher's Stouffer's	Power Power				r-50% r-50%	P	-value -value		Power Power			ower-50% ower-50%		P-val: P-val:			Power Power			Power-509 Power-509	ŧ	P	-value	

x At least one site pair p-value < 0.100 in opposite direction of overall tests. y Direction of diffusione between habitat means is different than direction of overall tests. 2 Only one site pair.

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

			Puc	u s St	ipes (P)	(a)				1	etalor?	ia/P	unctaria	(AE) (b)		м	orpholog	ical G	roup:	Coarse 1	Filament	ous Br	owns
Site Pair Mvd	N	С	SE	N	0	SE	ÇV I	P	N	С	SB	N	0	Se	מ כי	P	N	С	SE	N	o	SE	CV I	P
14.1C/14.1 1 14.2C/14.2 1 62762C/50983 1	0 0 3	 0.00	0.00	0 0 3	 0.00	0.00	- - - (1.000	0 0 3	0.00	0.00	0 0 3	 0.00	0.00	-	1.000	0 0 3	0.00	0.00	ŏ	0.00	0.00	- - - c	1.000
Habitat Means		0.00	0.00		0.00	0.00	(•		0.00	0.00		0.00	0.00	0			0.00	0.00	+	0.00	0.00	c	
	Power Power			Power Power	r-50% r-50%		P-value P-value						er-50% er-50%		P-value P-value		<pre>Power Power</pre>				r-50% r-50%		P-value P-value	
14.1C/14.1 2 14.2C/14.2 2 62762C/50983 2		0.00	0.00	0 0 3	0.00	0.00	- -	1.000	0 0 2	0.00	0.00	0 0 3	0.00	0.00	-	1.000	0 0 2	0.00	0.00	ŏ	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			0.00	0.00)	0.00	0.00	c	,
	Power Power			Power Power			P-value						er-50% er-50%		P-value P-value		2 Power Power				r-50% r-50%		P-value P-value	
14.1C/14.1 3 14.2C/14.2 3 62762C/50983 3		0.00	 	ŏ	 0,00	0.00	- -		0 0 -	0.00		Ö	0.00	0.00	-		0 0 1	0.00		· ŏ	0.00	0.00	-	
Habitat Means		0.00			0.00	0.00				0.00			0.00	0.00				0.00			0.00	0.00		
	Power Power	-			c-50% c-50%		P-value P-value		Power Power				er-50% er-50%		P-value P-value		Power Power				r-50% r-50%		P-value P-value	

(a) Dead Fucus plants or attpos without blades.
(b) Genera not separaced.

x. At least one wite pair p-value < 0.100 in opposite direction of overall leats. y. Direction of difference between habitat means is different that direction of overall tests, only one site pair.

Morphological Group: Fine Filamentous Browns Analipus japonicus (P) Myelophycus/Scytosiphon (A) (a) CV D P N C 0 CV D P N ٥ CV D SR SE Site Pair Mvd N C N ٥ 0 ---0 14.1C/14.1 ~ ~ - **-**1 0 Λ 14.2C/14.2 Ω 0.00 3 - o 1.000 1.000 0.00 0.00 0.00 0.00 3 0.00 0.00 O 1.000 0.00 0.00 3 0.00 0.00 - 0 0.00 62762C/50983 1 3 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 a 0 Habitat Means Power-50% --- P-value Power-50% --- P-value --- z Power ---~ - - z Fisher's Power Power-50% --- P-value --- z Power ---Power-50% --- P-value Power-50% P-value ---Power _ _ -Power-50% P-value ---Power Stouffer's Power 0 0 0 ---0 n ---------_ -14.1C/14.1 2 0 14.2C/14.2 n Ð 0 0.00 1.000 0.00 0.00 1.67 1.67 0.423 0.00 3 62762C/50983 2 2 0.00 0.00 3 0.00 0.00 0 1,000 0.00 0.00 3 - 0 2 0.00 0.00 0.00 0.00 1.70 1.70 0.00 0.00 0.00 0.00 0.00 0.00 Habitat Means O Power-50% P-value z Power Power-50% --- P-value --- P-value --- z Power Fisher's Power Power-50% ---Power-50% --- P-value Power Power-50% --- P-value ------ P-value Power Stouffer's Power Power-50% 0 --0 14.1C/14.1 3 --O - -------__ ---0 --0 --------14.2C/14.2 0 --0 0.00 0.00 0.00 0.00 --2 0.00 0.00 - 0 ___ 0.00 0.00 - 0 62762C/50983 3 0.00 --0.00 0.00 0.00 0.00 0.00 Habitat Means 0.00 0.00 0.00 0.00 Power-50% --- P-value Power Power-50% --- P-value ___ Power Power-50% --- P-value Fisher's Power ------ P-value ---Power Power-50% --- P-value ---Power ---Power-50% ---Power-50% --- P-value Stouffer's Power

(a) Genera not separated.

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

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

Table C-5.2/3. Page 3. December 15, 1994

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

	Fine	. Filam	mentous Browns	9 (AE) (1	o)			Morph	ologic	al Gr	roup: Sa	ccate B	TOWNS				Leathe	sia/Co	lpomenia	(A) (a)			_
disa Dair Mud N	٠ ،	27	ม ก	SE	מ עיי	P	n	c	SE	n	0	SE	ÇV D	P	N	C	SE	N	0	SE	GA 1	I	?
14.2C/14.2 1 0 62762C/50983 1 3	0.00	0.00	0 3 0.00	0.00	-	1,000	0 3	0.00	0.00	3	0.00	0.00		1.000	3	0.00	0.00	3	0.00	0.00		1.0	000
Habitat Means	0.00	0.00	0.00	0.00	0			0.00	0.00		0.00	0.00	0			0.00	0.00		0.00	0.00			
Fisher's Power Stouffer's Power			Power-50% Power-50%	P			Power Power				=-50% =-50%		P-value P-value		z Power Power			Power			P-value P-value		z
14.1C/14.1 2 0 14.2C/14.2 2 0 62762C/50983 2 2	0.00	0.00	0 0 3 1.67	1.67		0.423	0 0 2	0.00	0.00	0 0 3	0.00	0.00	-	1.000	0 0 2	0.00	0.00	0 3	0.00	0.00	- - c		000
Habitat Means	0.00	0.00	1.70	1.70	-			0.00	0.00		0,00	0.00	0			0.00	0.00)	0.00	0.00	c	1	
Fisher's Power Stouffer's Power			Power-50% Power-50%		-value -value		z Power Power				r-50% r-50%		P-value P-value		z Power Power			Power Power			P-value P-value		z
14.1C/14.1 3 0 14.2C/14.2 3 0 62762C/50983 3 1	0.00		0 0 2 0.00	0.00	- - - 0		0 0 1	0.00		o	0.00	0.00	-		0 0 1	0.00		- 0	0.00	0.00	- (
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% Power-50%		-value -value		Power Power				r-50% r-50%		P-value P-value		Power Power			Power Power			P-value P-value		

⁽b) Elachista, Eccommipus and Filayetia.

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

Ralfsia/Petroderma (P) (a) Morphological Group: Crustose Browns Soranthera ulvoidea (A) ÇV D SE 0 \$E C SE Q CY D P N dies Dair N C Mary M 22 N SE CA D P -- 0 14.2C/14.2 1 0 Ð - 0 1.000 1.000 0.00 0.00 0.00 0.00 0.00 - 0 3 0.00 0.00 3 0.00 0.00 0.00 0 1.000 0.00 62762C/50983 1 0.00 3 0.00 0.00 0.00 0.00 0.00 0 0.00 0.00 0.00 0.00 0.00 0.00 Habitat Means 0 00 Power-50% --- P-value Power-50% --- P-value z Power Power-50% --- P-value --- z Power ---Fisher's Power --- P-value Power Power-50% Power-50% --- P-value Power-50% P-value Power ---Stouffer's Power -----Û 0 -n --D 14.1C/14.1 2 0 . . 0 0 14.2C/14.2 2 --0 - 0 1.000 1,000 0.00 0.00 0.00 0.00 0.00 0.00 - 0 0.00 - 0 1.000 0.00 0.00 3 62762C/50983 2 2 0.00 0.00 3 0.00 0.00 0.00 0.0 0.00 0 0.00 0.00 o 0.00 0.00 0.00 0.00 0.00 0.00 Habitat Means Power-50% --- P-value Power-50% --- P-value z Power --- P-value --- 2 Power Power-50% Fisher's Power Power-50% --- P-value Power-50% --- P-value Power P-value ---Power ---Power-50% Stouffer's Power ---0 0 0 0 ----14.1C/14.1 0 -----0 -----0 14.2C/14.2 0 --0 0.00 - 0 --0.00 0.00 0.00 0 0.00 0.00 - 0 0.00 --0.00 0.00 62762C/50983 3 --2 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 Habitat Means Power-50% --- P-value --- P-value Power Power-50% Power-50% --- P-value ---Power ---Fisher's Power Power-50% --- P-value Power-50% --- P-value ---Power ------Power-50% --- P-value ---Power ___ Storffer's Power

Table C-5.273. Page 5. December 15, 1

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

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	Rhodophyt	ta				Mor	pholog.	ical	Group: 1	Sladed R	eds					Bangia	ap. (Al	3)		
Site Pair Mud N	r	ЯR	N	n	SE	מיים	Þ	N	С	SE	N	0	SE	CV D	P	Ŋ	С	SE	N	0	SE	ÇV D	P
14.2C/14.2 1 0 62762C/50983 1 3	0.83	0.83		0.00	0.00	<u>-</u> - +	0.423	0 3	0.00	0.00	0 3	0.00	0.00	- 0	1.000	<i>0</i> 3	0.00	0.00		0.00	0.00	- 0	1.000
Habitat Means	0.80	0.80		0.00	0.00	+			0.00	0.00		0.00	0.00	0			0.00	0.00		0.00	0.00	0	
Fisher's Pow Stouffer's Pow	ver		Power Power			-value -value		2 Power Power				r-50% r-50%		P-value P-value		z Power Power			Power-			P-value P-value	
14.1C/14.1 2 0 14.2C/14.2 2 0 62762C/50983 2 2	 13.75	13.75	Ö	3.33	2.20	- - - +	0.610	0 0 2	3.75	3.75	Ô	0.00	0.00	- - - +	0.500	0 0 2	0.00	0.00	Ö	0.00	0.00	- - - 0	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	0	
Fisher's Pow Stouffer's Pow	ver		Power			-value		z Power Power				c-50% c-50%		P-value P-value		z Power Power			Power-			P-value P-value	
14.1C/14.1 3 0 14.2C/14.2 3 0 62762C/50983 3 1	30.00		o	 8.75	8.75	- - - +		0 0 1	5.00		0 0 2	0.00	0.00	-		0 0 1	0.00		Ö	0.00	0.00	- - - 0	
Habitat Means	30.00			8.80	8.80				5.00			0.00	0.00				0.00			0.00	0.00		
Fisher's Pov Stouffer's Pov			Power Power			-value -value		Power Power				c-50% c-50%		P-value P-value		Power Power			Power-			P-value P-value	

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

Only one site pair

Phycodrys riggii (A) Palmaria spp. (A) Gigartinaceae Group (P) (a) c CV D N ¢ SE o SE CV D Þ N С SE CV D P Site Pair Mvd N SE P 14.1C/14.1 14.2C/14.2 0.00 1.000 0.00 0.00 0.00 0.00 0 1.000 0.00 0.00 0.00 0.00 - 0 1.000 0.00 0.00 0.00 0 62762C/50983 1 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 --- P-value Power-50% Fisher's 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 ---0 ---14.1C/14.1 O ۵ O. - ---O ---------14.2C/14.2 0 n n O 0.00 0.00 0.500 0.00 0.00 0.00 0.00 - o 1.000 62762C/50983 2 2 0.00 0.00 3 0.00 0.00 - 0 1.000 3.75 3.75 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 3.80 3.80 Habitat Means 0 Power-50% Power-50% P-value Power-50% P-value --- z Power P-value --- z Power Fisher's Power --- P-value Power-50% --- P-value Power Power-50% P-value Power Power-50% ---Stouffer's Power 14.1C/14.1 Û O --_-... ---------0 ---14.20/14.2 0 0.00 0.00 - 0 62762C/50983 3 0.00 0.00 0.00 2.50 --0.00 0.00 0.00 -----0.00 0.00 0.00 0.00 0.00 2.50 0.00 Habitat Means 0.00 0.00 Power-50% Power-50% Power P-value Power --- P-value Fisher's Power Power-50% --- P-value Power-50% --- P-value Power-50% ---Stouffer's Power ---Power-50% --- P-value ---Power ------ P-value Power

(a) Chongrus, Iridses, mascocarpus and should loss un

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

Table C 5,274. Page 1. December 15, 1994

Table C-5.274. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Cleared September 1989. (Continued.)

			1	Porphy	yra sp. (A)					T	okidad	endr	on kurile	ngis (A)			1	Morpholog	gical (roup:	Coarse	Pilamen	tous R	da	_
Site Pair Mv	rd N	c	SB	N	0	SE	CV	D	P	N	С	SE	N	0	SE	CV I)	P	N	С	SE	N	0	SE	CA I		P
14.1C/14.1 1 14.2C/14.2 1 62762C/50983 1	l 0 l 0	0.00	0.00	0	0.00	0.00	- - -	0 1	.000	0 0 3	0.00	0.00	0	0.00	0.00	- 0	· :	.000	0 0 3	0.83	0.83	0	0.00	0.00	- - 		423
Habitat Means Fisher's Stouffer's	Power Power	0.00		Powe	0.00 r-50% r-50%		e-valu		z	Power Power	0.00			0.00 2-50% 2-50%		P-value P-value	=	7	Power	0.80		Power			-value -value		2
14.1C/14.1 2	2 0	0.00	0.00	. 0	0.00	0.00	- - -	o 1	 L.000	0 0 2	0.00	0.00	Q.	0.00	0.00	-	o 1	.000	0 0 2	2.50	2.50	0 3	3.33	2.20	-	0.	823
Habitat Means Fisher's	Power	0.00		Powe	0.00 r=50% r-50%		?-valu ?-valu		z	Power	0.00			0.00 er-50% er-50%		P-value P-value	÷	;	Power				3.30 r-50% r-50%		- P-value P-value		z
	Power 3 0 3 0 3 1	0.00		- 0	0.00	0.00	-	0		0 0 1	0.00		ŏ	0.00	0.00	- (D		0 0 1	10.00		0 2	6.25 6.30	6.25 6.30	-		
Fisher's Stouffer's	Power Power	0.00		Powe	0.00 r-50% r-50%		P-valı P-valı			Power Power	0.00			0.00 er-50% er-50%		P-value P-value			Power Power	10.00		Powe:	5.30 ±-50% ±-50%	1	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 habital means is different than direction of overall tests.
y Only one site pair.

Endocladia muricata (P) Cryptosiphonia woodii (A) Articulate Coralline Algae (A) N C SE 0 SE CV D P CV D P C 0 SE N C RR CV D P SE Site Pair Mvd N ---0 14.1C/14.1 O n - + 0.423 14.2C/14.2 1.000 0.83 0.83 0.00 0.00 0.00 0.00 3 0.00 0.00 - 0 1.000 62762C/50983 1 0.00 0 0.00 0.00 0.00 0.80 0.00 0.00 0.80 0.00 0.00 0.00 0.00 0.00 0.00 0 0.00 0.00 Habitat Means Power-50% --- P-value --- P-value --- z Power Power-50% Power-50% --- P-value --- z Power Fisher's Power Power-50% --- P-value Power Power-50% --- P-value Power ---Power-50% P-value Stouffer's Power ---.. n _n -----0 14.1C/14.1 2 0 ----- - 0.423 14.2C/14.2 1.000 0.00 0.00 2.50 2.50 0.00 0.00 - o 1.000 0.00 0.00 3 - 0 0.00 62762C/50983 2 2 0.00 0.00 3 0.00 2.50 0.00 2.50 0.00 0.00 0.00 0.00 0.00 0 0.00 0.00 0.00 0.00 Habitat Means Power-50% --- P-value Power-50% --- P-value z Power --- a Power Power-50% --- P-value Fisher's Power Power-50% --- P-value --- P-value Power Power-50% Power _---Power-50% Power --- P-value Stouffer's 0 -----0 n --14.1C/14.1 --0 3 -------0 ---___ G --- 0 14.20/14.2 0.00 0.00 0.00 --2 0.00 0.00 - + 5.00 --0.00 - 0 62762C/50983 3 1 0.00 --2 0.00 0.00 0.00 0.00 5.00 0.00 0.00 0.00 0.00 0.00 Habitat Means Power-50% --- P-value --- P-value Power ---Power-50% --- P-value Power Power-50% Fisher's Power Power-50% --- P-value Power ---Power-50% --- P-value --- P-value ---Power ---Power ___ Power-50% 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-5.274. Page 3. December 15, 1994

Table C-5.274. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Cleared September 1989. (Continued.)

			Glo	iope1	tis furcat	a (A)					Microcla	dia boreal	is (A)				Þ	eorbod	omela/Rhodome	la (P)	a)	
Site Pair Mv	rd N	С	SE	И	0	SE	ÇV D	P	N	С	še n	0	SE	ÇA D	P	N	С	SE	n o	SE	CA D	P
14.1C/14.1 1 14.2C/14.2 1 62762C/50983 1	O	0.00	0.00	- ŏ	0.00	0.00	- - - 0	1.000	0 0 3	0.00	0 0 0.00 3	0.00	0.00	-	1.000	0 0 3	0.00	0.00	0 3 0.00	0.00	- 0	1.000
Habitat Means Fisher's	Powe			Powe	0.00 er-50% er-50%		o value- value		2 Power	0.00		0.00 er-50% er-50%		o P-value P-value		z Power Power	0.00		0.00 Power-50% Power-50%		P-value P-value	z
Stouffer's 14.1C/14.1 2 14.2C/14.2 2 62762C/50983 2	Powe 0 0 2 0 2 2	 0,00	0.00	- 0 - 0	0.83	0.83	- - - 		0 0 2	0.00	0 0 0.00 3	0.00	0.00	-	1.000	0 0 2	0.00	0.00	0	0.00	- 0	1.000
Habitat Means Fisher's Stouffer's	Powe Powe			Powe	0.80 er-50% er-50%		- value- value-		z Power Power	0.00		0.00 er-50% er-50%		o P-value P-value		2 Power Power	0.00		0.00 Power-50% Power-50%		P-value P-value	z
14.2C/14.2 62762C/50983	3 0 3 0 3 1	0.00		- 0 - 2	6.25 6.30	6.25 6.30	-		0 0 1	0.00	0 0 2	0.00	0.00	- 0		0 0 1	0.00		0 2 0.00	0.00	- -) - o	
Habitat Means Fisher's Stouffer's	Powe Powe		-	Powe	er-50% er-50%	1	P-value P-value		Power Power			rer-50% rer-50%		P-value P-value		Power Power			Power-50% Power-50%		P-value P-value	

(w) Genera not separated. x A: least one site pair p-value < 0.100 in opposite direction of overall casts. y Direction of difference between habital means is different than direction of overall tests. y Only one site pair.

Table C 5.274. Page 5. December 15, 1

			Odon	thalia	floccos	a (P)						Ptilot	a/Nec	ptilota	(P) (b)					Mor	pholog	ical G	roup: S	accate 1	Reds		
Site Pair Mvd	N	С	SE	N	0	SE	CV	D	P	N	с	SE	N	0	SE	CV D		P	N	с	SE	N	0	SE	cv	D	P
14.2C/14.2 1 62762C/50983 1		0.00	0.00		0.00	0.00	-	С	1.000	0 3	0.00		3	0.00	0.00			.000	3	0.00	0.00	3	0.00	0.00			1.000
Habitat Means		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	0				0.00	0.00		0.00	0.00		0	
	Power Power			Power			-val		;	Power Power			Power Power			-value		2	Power Power			Power Power		}			8
14.1C/14.1 2 14.2C/14.2 2 62762C/50983 2	0	2.50	2.50	Ō	0.00	0.00	-		0.500	0 0 2	0.00	0.00	0 0 3	0.00	0.00	- - - 0	1	000	0 0 2	 3.75	3.75	ŏ	0.00	0.00	-	+	0.500
Habitat Means		2.50	2.50		0.00	0.00		-			0.00	0.00		0.00	0.00	0	,			3.80	3.80	1	0.00	0.00		+	
	Power Power			Power			P-val P-val		,	Power Power			Power Power			P-value P-value		'	Power Power			Power Power		!			z
14.1C/14.1 3 14.2C/14.2 3 62762C/50983 3	0	5.00		0	0.00	0.00	- - -			0 0 1	0.00		Ö	0.00	0.00	-	,		0 0 1	 15.00		. 0	0.00	0.00	-		
Habitat Means		5.00			0.00	0.00					0.00			0.00	0.00					15.00			0.00	0.00			
Fisher's	Power Power			Power Power			P-val P-val			Power			Power			P-value P-value			Power Power			Power Power					

⁽h) Genera not separated.

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

Table C-5.274. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Cleared September 1989. (Continued.)

			Halos	accion	glandife	orme (A)					на	losac	cion app.	(A)					Morpholo	gical	Group	Fine P	Filament	ous Rec	10	
Site Pair)	Mvd N	С	SE	N	0	SE	CA	Þ	P	N	С	SE	N	0	SE	CV D	P	,	N	С	SE	N	0	SE	ÇV D		P
14.1¢/14.1 14.2¢/14.2 62762¢/50983	1 0 1 0 1 3	0.00	0.00	· ŏ	 0.00	0.0	-	o	1.000	0 0 3	0.00	0.00	ō	0,00	 0.00	- - - 0	-	00	0 0 3	 0.00	0.00	ŏ	0.00	0.00	- - - 0	1.	 .000
Habitat Means	s	0.00	0.00)	0.00	0.0)	o			0.00	0.00		0.00	0.00	0				0.00	0.00		0.00	0.00	0		
Fisher's Stouffer's	Power Power				r-50% r-50%		P-va P-va			2 Power Power				x-50% x-50%		-value -valuc			ower			Power Power			-value		z
14.1C/14.1 14.2C/14.2 62762C/50983	2 0 2 0 2 2	 3.75	 3.75	ŏ	0.00	0.00	-	+	 0.500	0 0 2	 0,00	0.00	ŏ	0.00	0.00	- - - o	-	((0 0 2	 3.75	 3.75	Õ	0.00	0.00	-		 .500
Habitat Means	s	3.80	3.80)	0.00	0.0)	+			0.00	0.00		0.00	0.00	0				3.80	3.80		0.00	0.00	+		
Fisher's Stouffer's	Power Power				r-50% r-50%		P-val P-val			2 Power Power				r-50% r-50%		-value -value			ower ower			Power Power			-value		z
14.1C/14.1 14.2C/14.2 62762C/50983	3 0 3 0 3 1	 15.00		Ö	0.00	0.00	-	÷		0 0 1	0.00	 	0 0 2	0.00	 0.00	- - - 0	-	{ ())	0.00	 	0 0 2	 2.50	2.50	<u>.</u> -		
Habitat Means	s	15.00			0.00	0.00)				0.00			0.00	0.00					0.00			2.50	2.50			
Fisher's Stouffer's	Power Power			Power Power	r-50% r-50%		P-val P-val			Power Power				と-50% と-50%		-value			ower			Power Power			-value -value		

 χ At least one site pair p-value < 0.100 in opposite direction of overall tests. γ Direction of difference between habital seams is different than direction of overall tests. z Oulv one site pair.

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

			Calli	thamn	ion pikea	unum (A)				Poly	ysiphor	nia/P	terosipho	nia (A)	(a)			Mo	rpholog.	ical G	roup: C	rustose	Reds		
Site Pair My	vd N	c	SE	N	0	SE	ÇV	D E	, м	С	SE	N	•	SE	CV D	1	P N	С	88	N	0	SE	CV	D	P
14.1C/14.1 1 14.2C/14.2 1 62762C/50983 1	1 0	0.00	0.00	ō	0.00	0.00	-		0 0 100 3	0.00	0.00	ō	 0.00	0.00	- - - 0		0 0 000 3	0.00	0.00		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			0.00	0.00		0.00	0.00		٥	
Fisher's Stouffer's	Powe:			Powe:	r-50% r-50%		P-valu P-valu		z Power Power				r-50% r-50%		-value -value		2 Powe			Power Power			P-valu P-valu		z
14.1C/14.1 2 14.2C/14.2 2 62762C/50983 2	2 0 2 0 2 2	 0.00	0.00	ŏ	0.00	0.00	-		0 0	3.75	 3.75	0 0 3	0.00	0.00	- - - +		0 0 500 2	0.00	0.00	Ö	0.00	0.00	-	0	1.000
Habitat Means		0.00	0.00		0.00	0.00		0		3.80	3.80		0.00	0.00	+			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Powe:			Power			P-valu P-valu		? Power Power				と-50者 に-50者		-value -value		→ z Powe			Power Power			P-valu P-valu		z
14.1C/14.1 3 14.2C/14.2 3 62762C/50983 3	3 0	0.00		Ö	0.00	0.00	-	-	0 0 1	0.00		0 0 2	2,50	2.50	- - 	-	0 0 1	0.00		Ö	 0.00	0.00	-	0	
Habitat Means		0.00			0.00	0.00				0.00			2.50	2.50				0.00			0.00	0.00			
Fisher's Stouffer's	Powe:			Powe:	r-50% r-50%		P-valu P-valu		Power Power				r-50% r-50%		-value -value		Powe			Power Power			P-valu P-valu		

(a) Genera not separated.

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

Table C-5.274. Algel Percent Cover, Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Cleared September 1989. (Continued.)

			CTI	atos	e Cor	alline A	lgae ((P)					Hil	denb.	randia sp.	. (P)							Petro	celis (P				
	rd N		SE		N COL	0	SE	_	CV D		N	c	ge	N	0	SE	ÇV	Þ	P		-			-		EП	-	-
100 14-1								_	-		0			•						0			0					
4.2C/14.2 1	. 0	0.00	,	0.00	Ö	0.00	0.0	0.0	- - 0	1.000	0 3	0.00	0.00		0.00	0.00		0	1.000	3	0.00	0.00	3	0.00	0.00			1.000
2762C/50983 1 Mabitat Means	. 3	0.00		0.00	,	0.00	0.0		0			0.00	0.00		0.00	0.00	•	0			0.00	0.00	_	0.00	0.00		0	7
Fisher's	Power	-			Power				value value		<pre>2 Power Power</pre>				er-50% er-50%		P-val			Power Power				-50% -50%		P-val P-val		
4.2C/14.2 2	Powe: 2 0 2 0				0				-	1.000	0	0.00	0.00	ŏ	0,00	0.00		0	1.000	0 0 2	0.00	0.00	Ď	0.00	0.00	-	0	1.000
2762C/50983 2		0.00		0.00	3	0.00	0.0		- 0	1.000	2	0.00	0.00		0.00	0.0)	0			0.00	0.00		0.00	0.00		0	
abitat Means Fisher's	Powe Powe	r -			Power	-50%			value value		z Power Power				er-50% er-50%		P-va P-va			Power Power				r-50% r-50%		P-val		2
4.2C/14.2	3 0				0	0.00			- - - 0		0 0 1	0.00			0.00	0.0		0		0 0 1	0.00		0	0.00	0.0	- -	0	
32762C/50983 : Habitat Means		0.00			2	0.00	0.					0.00			0.00	0.0					0.00	-		0.00 r-50%	0.0	D-val	ue	
Fisher's	Powe				Power				value value		Power Power				rer-50% rer-50%		P-val P-val			Power Power				±-50%		P-val		

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

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.

					Act	iniidae						_		Bal	anomorpha								Poly	placophor	a			
Site Pair	Mvd	N	С	SE	N	0	SE	cv	D	P	N	c	8E	N	0	SE	CV I	,	P	и	С	SB	N	o	SE	CV	D	P
14.1C/14.1 14.2C/14.2 62762C/50983	1 1 1		0.00	0.00	Ö	 0,00	0.00	_	0	1,000	0 0 3	 56.67	28.33	0 0 3	0.00	0.00	_		 184	0 0 3	0.00	0.00	Õ	0.00	0.00	- - -	0	1.000
Habitat Mean	s		0.00	0.00		0.00	0.00)	0			56.70	28.30		0.00	0.00	4				0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power				-50% -50%		P-va P-va		-	z Power Power				r-50% r-50%		P-value P-value			z Power Power				-50% -50%		-valu		z
14.1C/14.1 14.2C/14.2 62762C/50983	2 2 2	0	0.00	0.00	ő	0.00	0.00	_	0	1.000	0 0 2	5.00	2.50	ō	7.50	4.33			 968	0 0 2	0.00	0.00	ō	0.00	0.00	-	0	1.000
Habitat Mean	Ś		0.00	0.00		0.00	0.00		0			5.00	2.50		7.50	4.30	-				0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power				-50% -50%		P-va P-va			<pre>Power Power</pre>				r-50% r-50%		P-value			z Power Power				-50% -50%		-valu		z
14.1C/14.1 14.2C/14.2 62762C/50983	3 3 3	0	0.00		ŏ	0.00	0.00	_	0		0 0 1	 5.00		0 0 2	12.50	2.50				0 0 1	0.00		ŏ	0.00	0.00	-	0	
Habitat Mean	8		0.00			0.00	0.00					5.00			12.50	2,50					0.00			0.00	0.00			
Fisher's Stouffer's		Power Power			Power	-50% -50%		P-va P-va			Power Power				r-50% r-50%		P-value P-value			Power Power				2-50% 2-50%	E	-valu		

x At least one site pair p-value < 0.180 in opposite direction of overall tests.</p>
y Direction of difference between habitat means is different than direction of overall tests.
0.1. y one site pair.

Table C-5,275, Page 1, December 15, 1994

				Lot	tiidae					_		м	ytilus .	_						1	Mucella	lamell)#A			
Site Pair Mv	rd N	С	SE	N	0	SE	CV D	P	N	c	SE	N	0	SE	CV	D	P	N	С	SB	N	0	88	CV	D	P
14.2C/14.2 1 62762C/50983	0 3	0.00	0.00	ő	0.00	0.00	- 0	1.000	0 0 3	3.33	3.33	Ö	0.00	0.00	-		0.423	0 0 3	0.00	0.00	0	0.00	0.00	-	a	1.000
Habitat Means Fisher's Stouffer's	Power Power		0.00	Power Power			o value- value-		z Power Power	3.30	3.30		0.00 c-50% c-50%		P-valu P-valu			z Power Power	0.00		Power Power		0.00	P-val		v
14.1C/14.1 2 14.2C/14.2 2 62762C/50983 2	2 0	0.00	0.00	0 0 3	0.00	0.00	- - - o	1.000	0 0 2	0.00	0.00	ō	9.17	9.17	-	_	0.423	0 0 2	0.00	0.00	Ö	0.00	0.00	-	0	1.000
Habitat Means		0.00	0.00		0.00	0.00	0			0.00	0.00		9,20	9.20		-			0.00	0.00		0.00	0.00		O	
Fisher's Stouffer's	Power Power			Power Power			-value		z Power Power				c-50% c-50%		e-valu			Power Power			Power Power					z
14.1C/14.1 3 14.2C/14.2 3 62762C/50983 3	0	0.00		0 0 2	0.00	0.00	- - - 0		0 0 1	0.00		Ō	1,25	1.25	-	_		0 0 1	0.00		Ö	0.00	0.00	-	0	
Habitat Means		0.00			0.00	0.00				0.00			1.30	1.30					0.00			0.00	0.00			
Pisher's Stouffer's	Power Power			Power Power			-value		Power Power			Power Power	-50% -50%		e-valu e-valu			Power 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-5.275. Algal Percent Cover, Invertebrates. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Cleared September 1989. (Continued.)

				Litt	orinidae	3							P	orifera								Cn	ideria				
Site Pair M	tvd N	С	SE	N	0	SE	CA	D	P	N	С	Se	N	0	SE	ÇV D	P	,	N	C	SE	N	C	SE	CA D	P	
14.1C/14.1 14.2C/14.2 62762C/50983	1 0 1 0 1 3	0.00	0.00	ŏ	1.67	1.67	-	_	0.423	0 0 3	0.00	0.00	0 0 3	0.00	0.00	-		000	0 0 3	0.00	0.00	ő	0.00	0.00	- - • 0	1.00	
Habitat Means	3	0.00	0.00		1.70	1.70		-			0.00	0.00		0.00	0.00	0				0.00	0.00		0.00	0.00	0		
Fisher's Stouffer's	Power Power				r-50% r-50%		P-val P-val		:	Power Power				r-50% r-50%		P-value P-value			Power Power			Power Power			P-value P-value		z
	2 0 2 0 2 2	0.00	0.00	ŏ	0.00	0.00	- - -	o	1.000	0 0 2	0.00	0.00	0 0 3	0.00	0.00	-		000	0 0 2	0.00	0.00	ŏ	0.00	0.00		1,00	
Habitat Means	3	0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00	0				0.00	0.00		0.00	0.00	0		
Fisher's Stouffer's	Power Power				c-50% c-50%		P-val P-val			Power Power				r-50% r-50%		P-value P-value			Power Power			Power Power			P-value P-value		z
14.1C/14.1 14.2C/14.2 62762C/50983	3 0 3 0 3 1	2.50	 	ŏ	0.00	0.00		+	 	0 0 1	0.00			0.00	0.00	-	-		0 0 1	0.00	 		0.00	0.00	-		
Habitat Means	3	2.50			0.00	0.00					0.00			0.00	0.00					0.00			0.00	0.00			
Fisher's Stouffer's	Power Power				r-50% r-50%		P-val P-val			Power Power				er-50% er-50%		P-value P-value			Power Power			Power			P-value P-value		

Table 0-5.275. Page 3. December 15. 1994

x At least one site pair p-value < 0.100 in opposite direction of 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. Algal Percent Cover. Substrates. Cook Inlet/Renai. Sheltered Rooky. 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								011	ed Rock									Mud			
Site Pair	Mvd	N N	С	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	ÇV D	P
14.1C/14.1 14.2C/14.2 62762C/50983		0 0 3	37.50	31.46	Ö	98.33	1.67	- -	_	0.151	0 0 3	0.00	0.00	ŏ	0.00	0.00	-	0	1.000	0 0 3	0.00	0.00	Ô	0.00	0.00	- 0	.000
Habitat Mear	ns		37.50	31.50		98,30	1.70		-			0.00	0,00		0.00	0.00		0			0.00	0.00		0.00	0.00	0	
Fisher's Stouffer's		Power Power			Power Power						z Power Power			Power Power			-val			z Power Power				-50% -50%		-value	z
14.1C/14.1 14.2C/14.2 62762C/50983		ō	23.75	16.25	ŏ	 52.50	13.77	-	_	0.260	0 0 2	0.00	0.00	ő	0.00	0.00	-	0	1.000	0 0 2	0.00	0.00	~	0.00	0.00	- - - 0	.000
Habitat Mear	ns		23.80	16.30		52.50	13.80		-			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	0	
Fisher's Stouffer's		Power Power			Power Power		I				Power Power			Power Power			-val			Power			Power	-50% -50%	£	-value -value	z
14.1C/14.1 14.2C/14.2 62762C/50983		Ö	0.00		Ö	 37.50	25.00	-	_		0 0 1	0.00		Ö	0.00	0.00	-	0		0	0.00		0	0.00	0.00	- - - o	
Habitat Mear	ns		0.00			37,50	25.00					0.00			0.00	0.00					0.00			0.00	0.00		
Fisher's Stouffer's		Power Power			Power Power		1				Power Power			Power Power		<u>F</u>	-val			Power Power	~		Power Power	-50% -50%	£	-value -value	

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

Table C 5.276. Page 1. December 15, 1994

					Sand							Shell	Fragment	te			_		Fi	lamentous Dia	atoms
Site Pair Myd	N	c	SE	N	Q	95	CV D	P	N	c	SE	N	Q.	SE	מע ס	P					cν
14.2C/14.2 1 62762C/50983 1	0 3	0.00	0.00	0 3	0.00	0.00	- - 0	1.000	0 3	0.00	0.00	0	0.00	0.00	- 0	1.000	0 3	0.00	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			0.00	0.00	0.00	0.00 0
	Power Power			Power Power			-value -value		z Power Power			Power Power			-value		z Power Power			Power-50%	P-value z P-value
14.1C/14.1 2 14.2C/14.2 2 62762C/50983 2	0	0.00	0.00		0.00	0.00	- - - 0	1.000	0 0 2	0.00	0.00	0 0 3	0.00	0.00	- - - o	1.000	0 0 2	0.00	0.00	0	0.00 - 0 1.000
Habitat Means		0.00	0.00		0.00	0.00	o			0.00	0.00		0.00	0.00	0			0.00	0.00	0.00	0.00 0
	Power Power			Power-			-value -value		2 Power Power			Power Power			-value -value					Power-50% Power-50%	P-value x
14.1C/14.1 3 14.2C/14.2 3 62762C/50983 3	0	0.00		Ö	0.00	0.00	- - - 0		0 0 1	0.00		0 0 2	0.00	0.00	- - - 0		0 0 1	0.00		0	0.00 - 0
Habitat Means		0.00			0.00	0.00				0.00			0.00	0.00				0.00		0.00	0.00
	Power Power			Power Power			-value -value		Power Power			Power Power			P-value P-value		Power Power			Power-50% 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. 2 Only one site pair.

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				Tota	1 Substrat	te										
	an 31 0	מ זויים מפו	א פ	r sr	N	Ω	SE	CV D	P	N	Ç	ŞE	N	0	Se	GA D	P
4.2C/14.2 1 0 2762C/50983 1 3	0.00 3 0.00		1.000 3	31.	0 46 3	98.33 98.30	1.67		0.151								
abitat Means Fisher's Power Stouffer's Power	0.00 0.00 Power-50% Power-50%	0.00 o P-value P-value	z Power Power	31.	Powe	98.30 er-50% er-50%	F	-value		Power Power			Power- Power-			P-vaiue P-value	
4.1C/14.1 2 0 4.2C/14.2 2 0 2762C/50983 2 2	0 0 0.00 3 0.00	0.00 - 0	0 0 1.000 2	16.	0 0 .25 3	52.50	 13.77	- - 	0.260								
abitat Means Fisher's Power Stouffer's Power	0.00 0.00 Power-50% Power-50%	0.00 o P-value P-value	z Power Power	16.		52.50 er-50% er-50%		- -value -value		Power Power			Power-			P-value P-value	
4.1C/14.1 3 0 4.2C/14.2 3 0 2762C/50983 3 1	0 0 2 0.00	0.00 - 0	0 0 1		0 0 2	37.50 37.50	25.00 25.00		===								
Fisher's Power	0.00 Power-50%	0.00 P-value	Power			er-50% er-50%	1	P-value P-value		Power Power			Power Power			P-value P-value	

Table C-5.276. Page 3. December 15, 1994

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

Table C-5.277. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Renai. 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	Dive	rsity I	ndex (a)						Alga	1 Tax	ka Richne	ess (b)							To	tal Algae	•			
Site Pair M	evd	N	c	SE	N	٥	SE	CΛ	D	P	N	С	SE	N	0	SE	CV	ם	P	N	С	SE	N	0	SE	C	V D	P
14.1C/14.1 14.2C/14.2 62762C/50983	1	6 6 6	0.06 0.04 0.09	0.06 0.03 0.05	4	0.17 0.00 0.00	0.06 0.00 0.00	-	+	0.207 0.258 0.116	6 6 6	1.17 1.17 1.17	0.40 0.31 0.40	4	2.00 0.50 0.83	0.26 0.29 0.17			0.111 0.174 0.461	6 6 6	29.58 42.92 16.25	10.48 18.06 8.26	4	38.75 3.13 51.25	8.84 1.88 15.50	3	- +	0.485 0.110 0.102
Habitat Means	3		0.06	0.05		0.06	0.02		+			1.17	0.37		1.11	0.24	1	-			29.60	12.30		31.07	8.73	3	-	
Fisher's Stouffer's		Power Power	0.183			r-50% r-50%	0.352			0.124	Power Power	0.232			x-50% r=50%		P-va P-va		0.243 0.272	Power Power	0.100			er-50% er-50%	0.321			0.179 0.107
	2 2 2	6	0.23 0.07 0.22	0.10 0.07 0.12	4	0.39 0.14 0.09	0.08 0.10 0.09	-	-	0.262 0.572 0.409	6 6 6	2,67 1.33 3,00	0.76 0.56 1.18	4	3.83 1.50 1.50	0.65 0.65 0.72	5 -	- - +	0.272 0.852 0.304	6 6 6	56.25 83.33 40.83	13.83 16.67 12.16	4	73.75 36.25 60.00	15.16 13.40 14.63)	- +	0.352 0.079 0.460
Habitat Means	s		0.18	0.10		0.21	0.09		-			2.33	0.83		2.28	0.67	7	-			60.13	14.23	1	56.70	14.40)	-	
Fisher's Stouffer's		Power Power	0.113			r-50% r-50%	0.518 0.613	P-val P-val		0.318	Power Power	0.113 0.059			er-50% er-50%		P-va P-va			Power Power	0.095			er-50% er-50%				0.370×y 0.330
	3 3	2	0.49 0.22 0.22	0.08 0.22 0.09	5	0.38 0.44 0.05	0.14 0.16 0.05	-	-	0.501 0.500 0.181	6 2 6	4.67 3.00 2.83	1,12 2.00 0.83	5	4.50 4.80 1.25	1.28 1.50 0.25) -	÷ - +	0.924 0.537 0.174	6 2 6	41.67 100.00 54.17	13.91 0.00 16.67	5	100.00 97.50 68.75	0.00 1.94 20.73	1	- !	0.004 0.209 0.394
Habitat Means	s		0.31	0.13		0.29	0.12		-			3.50	1.32		3.52	1.01	l	•			65.30	10.20)	88.77	7.53	3	-	
Fisher's Stouffer's		Power Power	0.226 0.165			r-50% r-50%	0.770 0.760				Power Power	0.086			er-50% er-50%	0.510 0.558	P-va P-va		0.316 y 0.137	Power				er-50% er-50%	0.533			0.013 0.105

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

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

			то	tal I	avertebi	ates								Rock							Pere	ennials (P)			
Site Pair My	vd N	С	SE	N	0	SE	ÇV	D	P	N	c	SE	N	0	SE	CV D	P	N	С	SB	N	0	SE	CV	D	P
14.1C/14.1 14.2C/14.2 62762C/50983	1 6 1 6 1 6	0.42 13.33 51.25	0.42 9.28 16.42	4	2.92 7.50 9.17	1.19 5.95 3.46	-	+	0.068 0.857 0.036	6 6 6	70.00 43.75 32.50	10.31 15.41 15.22	6	58.33 89.38 39.58	8.03 4.83 13.36		0.06	L 6	28.33 39.17 16.25	9.61 19.06 8.26	6	33.33 3.13 51.25	7.90 1.88 15.50	- 1 -	-	0.616 0.159 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		_	0.20-
Fisher's Stouffer's	Power Power			Power			P-val P-val		0.133x 0.073	Power Power				r-50% r-50%		P-value P-value				079 022		er-50% er-50%				0.205
14.1C/14.1 14.2C/14.2 62762C/50983	2 6 2 6 2 6	0.00 0.00 22.50	0.00 0.00 6.86	4	3.75 11.25 8.33	2.80 7.18 5.39	3 -		0.131 0.193 0.157	6 6 6	43.75 16.67 36.67	13.83 16.67 12.41	4	22.50 52.50 15.42	14.63 10.46 6.37			4 6	51.25 80.42 29.17	11.56 16.34 6.76	4	43.33 20.62 54.17	16.20 12.76 15.75	· -	+	0.771 0.039 0.282
Habitat Means		7.50	2.30		7.80	5.13	3	-			32.40	14.30		30.13	10.50	+			53.63	11.57	7	39.37	14.93	}	+	
Fisher's Stouffer's	Powe:			Power			P-va: P-va:		0.112 0.689	Power Power				r-50% r-50%		P-value P-value				279 178		er-50% er-50%	0.827 0.866			0.121 0.622
	3 6 3 2 3 6	5.00 0.00 40.42	2.81 0.00 15.25	5	0.00 0.50 13.75	0.00	- (-	0.101 0.374 0.142	6 2 6	53.33 0.00 5.42	12.09 0.00 3.32	5	0.00 2.00 17.50	0.00 1.46 10.16	;	0.19	8 2	22.08 48.75 25.83	8.74 48.75 11.58	5 5	50.42 62.00 66.25	15.44 12.76 21.13	· -	-	0.207 0.639 0.071
Habitat Means		15.13	6.03		4.77	4.10)	+			19.57	5,13		6.50	3.90	-			32.23	23.03	3	59.57	16.43	3	-	
Fisher's Stouffer's	Powe Powe			Power	-50% -50%				0.070	Fower Fower				r-50% r-50%		P-value P-value						er-50% er-50%				0.036 0.016

⁽a) Modified Shannon Index.
(b) Taxa richmess 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 habital means is different than direction of overall tests.
z Only one site pair.

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

				Annu	als (A)							1	Epher	merals ()	Æ)												
Site Dair Mu	N N	۲	SE	N	Ω	SE	CA	D	P	N	c	se	N	Ç	Se	CA	D	P	N	C	SE	N	0	SE	CV	D	P
14.2C/14.2 1 62762C/50983 1	6	3.75 0.00	3.75	4	0.00	0.00	-		0.363	6	0.00	0.00		0.00	0.00	-		1.000									
Habitat Means		1.70	1.70		1.80	0.87	,	-			0.00	0.00		0.00	0.00)	0										
Fisher's Stouffer's	Power Power			Power-					0.388	Power Power				r-50% r-50%				0.655 0.500	Power Power				-50% -50%				
	6 6 6	5.00 2.92 11.67	2.58 2.92 7.68	4	30.42 15.63 5.83	14.94 7.32 5.83	-	-	0.118 0.085 0.446	6 6	0.00 1.25 2.08	0.00 1.25 2.08	4	0.83 0.00 1.67	0.83 0.00 1.67) –	+	0.363 0.363 0.936									
Habitat Means		6.53	4.40		17.27	9.3	3	-			1.13	1.13		0.83	0.83	3	+										
Fisher's Stouffer's	Power Power			Power Power		0.470			0.052 0.405	Power Power				r-50% r-50%				0.502 0.471	Power Power				:-50% :-50%		P-val P-val		
	6 2 6	19.58 51.25 28.33	8.62 48.75 13.47	5	49.58 35.50 2.50	15.4 13.7 2.5	- 2	-	0.163 0.574 0.100	6 2 6	1.25 1.25 1.67	0.85 1.25 0.83	5	4.58 2.00 0.00	2.62 1.46 0.00	-	-	0.348 0.943 0.082									
Habitat Means		33.07	23.63		29,20	10.5	3	+			1.43	1.00		2.20	1.37	7	-										
Fisher's Stouffer's	Power Power			Power Power		0.224 0.269			0.194 0.103	Power Power	0.034			er-50% er-50%				0.533x 0.904	Power Power				c-50% c-50%		P-val P-val		

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

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; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; P = probability value; dashos = insufficient data.

				т	otal (hlorop	yta.					Morph	ologi	cal (Group: E	laded Gr	eens	g				Bla	đeđ G	reens (A	E) (a.)			
Site Pair	Mvd	N	С	SE	N	0	SE	cv	D	P	N	С	SE	N	0	SE	ÇV	D	P	N	С	SE	N	0	8£	CV	D	р
14.1C/14.1 14.2C/14.2 62762C/50983		6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00	-	0	1.000 1.000 1.000	6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00) -	0	1.000 1.000 1.000
Habitat Mean	ıs		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer's		Power Power			Power					0.655 0.500	Power Power				r-50% r-50%		P-va P-va		0.655 0.500	Power Power				r-50% r-50%				0.655 0.500
14.1C/14.1 14.2C/14.2 62762C/50983	2	6	0.00 1.25 2.08	0.00 1.25 2.08	4	2.50 0.00 5.42	2.50 0.00 5.42	-	+	0.363 0.363 0.736	6 6	0.00 1.25 2.08	0.00 1.25 2.08	4	0.00 0.00 1.67	0.00 0.00 1.67	-	+	1.000 0.363 0.936	6 6 6	0.00 1.25 2.08	0.00 1.25 2.08	6	0.00 0.00 1.67	0.00 0.00 1.67) -	+	1.000 0.363 0.936
Habitat Mean	ıs		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 Stouffer's		Power Power			Power					0.444	Power Power				er-50%				0.389 0.370	Power Power				r-50% r-50%				0.389
14.1C/14.1 14.2C/14.2 62762C/50983	3 3		1.25 1.25 2.08	0.85 1.25 1.00	5	7.08 3.00 0.00	4.00 2.42 0.00	-	-	0.244 0.853 0.081	6 2 6	1.25 1.25 1.67	0.85 1.25 0.83	5	4.58 2.00 0.00	2.62 1.46 0.00	-		0.348 0.943 0.082	6 2 6	1.25 1.25 1.67	0.85 1.25 0.83	5	4.58 2.00 0.00	2.62 1.46 0.00	5 -	-	0.348 0.943 0.082
Habitat Mean			1.57	1.07		3.37	2.13		-			1.43	1.00		2.20	1.37		-			1.43	1.00		2.20	2.37	7	-	
Fisher's Stouffer's		Power Power	0.053		Power		0.478 I	P-val P-val		0.423× 0.888	Power Power	0.033			er-50%	0.479 0.556		luc lue	0.533× 0.904	Power Power	0.041			r-50% r-50%				0.533× 0.904

(e) Russassile, Monostrona, Ulva and Ulvaria.

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

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

Only one wite pair.

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

		Morpholog	ical G	roup:	Fine Fi	lament	Dus G	reen	9			Ac:	rosip	honia sp.	(A)					Cha	etomor	pha/9	hizoclon	ium (A)	(a)		
Site Pair	Mvd N	c	SE	N	٥	SE	CV	D	P	N	С	SE	N	0	SE	¢v	D	P	N	С	SE	N	0	SB	cv	D	P
14.1C/14.1 14.2C/14.2 62762C/50983	1 6 1 6 3 1 6	0.00 0.00 0.00	0.00	4	0.00	0.00	-	O	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4 6	0.00 0.00 0.00	0.00	-	0	1.000 1.000 1.000
Habitat Mear	as	0.00	0.00		0.00	0.00)	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	1	0	
Fisher's Stouffer's	Power s Power			Power					0.655	Power Power				r-50% r-50%				0.655 0.500	Power Power				r-50% r-50%				0.655 0.500
14.1C/14.1 14.2C/14.2 62762C/50983	2 6 2 6	0.00 0.00 0.00	0.00 0.00 0.00	4	1.67 0.00 3.75	1.67 0.00 3.75) –	0	0.363 1.000 0.363	6 6 6	0.00 0.00 0.00	0.00	4	1.67 0.00 3.75	1.67 0.00 3.75	-	0	0.363 1.000 0.363	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00	0.00 0.00 0.00	-	O	1.000 1.000 1.000
Habitat Mear	ກຮ	0.00	0.00		1.83	1.83	3	-			0.00	0.00		1.83	1.83		-			0.00	0.00		0.00	0.00	}	0	
Fisher's Stouffer's	Power Power			Power					0.223	Power Power				r-50% r-50%				0.223 0.138	Power Power				r-50% r-50%				0.655 0.500
14.1C/14.1 14.2C/14.2 62762C/50983	3 6 3 2 3 3 6	0.00 0.00 0.42	0.00 0.00 0.42	5	2.50 1.00 0.00	1.71) –	-	0.183 0.374 0.363	6 2 6	0.00 0.00 0.42	0.00 0.00 0.42	5	2.50 1.00 0.00	1.71 1.00 0.00	-		0.183 0.374 0.363	6 2 6	0.00 0.00 0.00	0.00	5	0.00	0.00 0.00 0.00) –	0	1.000 1.000 1.000
Habitat Mear	ns	0.13	0,13		1.17	0.90)	-			0.13	0.13		1.17	0.90		-			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer's	Power			Powe:			P-va P-va		0.201 0.579	Power Power	0.047 0.047			r-50% r-50%		P- va P-va		0.201 0.579	Power Power				r-50% r-50%				0.655 0.500

[a] Genera not separated. \times At least one site pair p-value < 0.100 in opposite direction of overall tests. \times Direction of difference between habitat means is different than direction of overall tests. \times Only one site pair.

Table C-5.278, Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1992, Cleared June 1990, (Continued.)

					,							U	lothr	іх вр. (3	LE)						τ	Jrospo	ra sp. (AE)			
		_	SE CI	N N	ra sp. (SE.	cv	D	P	N	c :	gB.	N	0	SE	CA	D	P	N	С	SE	И	0	SE	C	7 D	P
4.1C/14.1 1 4.2C/14.2 2 2762C/50983	vd N 1 6 1 6	0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 6	0.00 0.00 0.00	0.00 0.00 0.00	6	0.00	0.00		- 0	1.000 1.000 1.000
abitat Means Fisher's	Power	0.00	0.00	Power-		0.00	-va.	o Lue	0.655 0.500	Power Power	0.00	0.00		0.00 r-50% r-50%		P-val		0.655 0.500	Power Power	0.00		Power	0.00 :-50% :-50%		P-v		0.655 0.500
Stouffer's 4.1C/14.1 4.2C/14.2 52762C/50983	Power 2 6 2 6 2 6	0.00	0.00	6	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 6	0.00 0.00 0.00	0.00	6	0.00 0.00 0.00	0.00 0.00 0.00)	- 0	1.000 1.000 1.000
abitat Means Fisher's	Power	0.00	0.00	Power					0.635	Power Power	0.00	0.00	Powe	0.00 r-50% r-50%		P-val		0.655	Power Power	0.00		Power	-50% -50%		P-v	alue alue	0.655 0.500
4.2C/14.2	Power 3 6 3 2	0.00	0.00	6 5	0.00	0.00	-	0	1,000 1,000 1,000	6 2 6	0.00 0.00 0.00	0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	O	1.000 1.000 1.000	6 2 6	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00)	- 0	1.000 1.000 1.000
2762C/50983 Mabitat Means Fisher's		0.00	0.00	Power	0.00	0.00	9-va	o lue	0.655 n snn	Power	0.00	0.00	Powe	0.00 er-50%		P-val		0.655	Power Power	0.00		Powe:	0.00 r-50% r-50%		P-V		0.655

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

1 i dinaia / Untara omba (AR) (a)

	Mor	phologica	al Gro	oup:	Tubular a	nd Sac	cate	Grae	ne		B1i	dingi	a/Ent	eromorpha	(AE) (a)										
	-			w	^	da.	Шī	ħ	9	v		Œ	พ	ń	RR	CV	ם	P	n	c	SE	Ŋ	0	SE	מע מ	P
14.2C/14.2 1 6 62762C/50983 1 6		0.00	0.00		0.00	0.00	-		1.000	6 6	0.00	0.00	6	0.00	0.00	-	0	1.000								
Habitat Means		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00 r-50%	0.00	-val	0	0.655	Power			Power	-50%		P-value	
	wer			Power Power					0.655 0.500	Power Power				r-50%	1	-val	ue	0.500	Power			Power			P-value	
14.1C/14.1 2 6 14.2C/14.2 2 6 62762C/50983 2 6		0.00 0.00 0.00	0.00 0.00 0.00	4	0.83 0.00 0.00	0.83 0.00 0.00	-	0	0.363 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4 6	0.83 0.00 0.00	0.83 0.00 0.00	_	0	0.363 1.000 1.000								
Habitat Means		0.00	0.00		0.27	0.27		-			0.00	0.00		0.27	0.27	1	-	0.403	Power			Power	-50%		P-value	
	wer			Power Power					0.403	Power Power				er-50% er-50%		P-val	ue	0.403	Power			Power			2-value	
14.1C/14.1 3 6 14.2C/14.2 3 2 62762C/50983 3 6	2	0.00	0.00	5	0.00 0.00 0.00	0.00	-	Q	1.000 1.000 1.000	6 2 6	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000								
Habitat Means		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0					Power	508		P-value	
Fisher's Po	ower			Power					0.655 n snn	Power Power				er-50% er-50%		P-va P-va	lue lue	0.655 0.500	Power Power			Power			P-value	

⁽a) Genera not separated.

Table 0-5.278. Page 3. December 15, 1

x At least one site pair p-value < 8.100 in opposite direction of 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. Algal Percent Cover. Phaeophyta. Cook Inlet/Renai. 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; CV = coefficient of variation; SE = standard error; D = direction of difference; + - control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes insufficient data.

				To	tal Phaeoph	yta					Mor	phologi	cal (Group:	Bladed B	COWD	6					Alar	авр. (A)			
Site Pair M	vđ N	С	SE		N O	SE	cv	D	P	N	С	SE	N	0	SE	CV	7 10	P	N	С	SE	N	0	SE	GA	D	P
14.1C/14.1 14.2C/14.2 62762C/50983	1 6 1 6 1 6	26.25 32.08 12.92	20.2	29	6 31.25 4 0.00 6 51.25	8.23 0.00 15.50	-	+	0.619 0.175 0.067	6 6 6	26.25 32.08 12.92	8.39 20.29 8.20	4	31.25 0.00 51.25	8,23 0.00 15.50	-		0.619 0.175 0.067	6 6	0.00 0.00 0.00	0.00 0.00 0.00	4 6	0.00	0.00	-	0	1.000 1.000 1.000
Habitat Means Fisher's Stouffer's	Pow		12.3	P	27.53 ower-50% ower-50%	7.90 0.534	P-va		0.157 0.076	Power Power				27.53 x-50% x-50%		P-va		0.157 0.076	Power Power	0.00		Powe:	0.00 r-50% r-50%		P-val		0.655 0.500
14.10/14.1	2 6 2 6 2 6	36.67 77.50 29.17	16.5	52	6 17.92 4 13.12 6 53.75	9.50 13.11 15.91	2 -	+	0.106 0.025 0.294	6 6 6	36.67 77.50 29.17	6.60 16.52 6.76	4	16.67 13.12 53.75	8.33 13.12 15.91			0.074 0.025 0.294	6 6 6	0.00 0.00 0.42	0.00 0.00 0.42	4	0.00	0.00 0.00 0.00	-	0	1.000 1.000 0.363
Habitat Means Fisher's	Pow		9.9	P	28.27 Power-50% Power-50%		P-va		0.021	Power Power			Powe	27.87 er-50% er-50%		P-va		0.016 0.426	Power Power	0.13		Powe	0.00 r-50% r-50%		P-va		0.403
	Pow 3 6 3 2 3 6	20.00 83.75 47.08	10.1	37 25	6 61.25 5 61.00 4 66.25	14.5	2 -	-	0.075 0.473	6 2 6	18.33 83.75 47.08	9.85 16.25 15.43	5	57.92 61.00 66.25	14.57 17.11 21.13			0.078 0.473 0.289	6 2 6	0.83 50.00 22.08	0.83 50.00 13.38	5	32.08 18.50 0.00	16,44 11.53 0.00	3 -	+	0.128 0.417 0.088
Habitat Means Fisher's			14.0	P	62.87 Power-50% Power-50%		P-va		0.089 0.102	Power Power			Powe	61.73 er-50% er-50%		P-va		0.092	Power Power			⊋owe	16.87 r-50% r-50%		P-va		0.147 0.087

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

Table 0-5.279, Page 1. December 15, 1994

	Total Fucus gardne:										Ad	ult Fu	cus g	ardneri	(P) (> 2	cm)				Juve	nile F	ucus (gardneri	(P) (<=	2cm)		
Site Pair Mv	d N	С	SE	N	0	SZ	CA	D	Þ	N	С	Se	N	0	ŞE	CV	D	P	N	c	SE	N	0	SE	ÇV	D	P
14.1C/14.1 1 14.2C/14.2 1 62762C/50983 1	6 6	26.25 32.08 12.92	8.39 20.29 8.20	4	31.25 0.00 51.25	8.23 0.00 15.50	-		0.619 0.175 0.067	6 6 6	26.25 32.08 12.92	8.39 20.29 8.20	4 6	31.25 0.00 50.00	8.23 0.00 16.16	-	-	0.619 0.175 0.088	6 6 6	0.00 0.00 0.00	0.00	6	0.00 0.00 1.25	0.00 0.00 1.25	-	0	1.000 1.000 0.363
Habitat Means Fisher's Stouffer's	Power			Power			P-val		0.157 0.076	Power Power			Powe	27.10 r-50% r-50%		P-val		0.187 0.094	Power Power	0.00		Power	0.43 r-50% r-50%		P·val		0.403
14.1C/14.1 2	6 6	36.67 77.50 28.75	6.60 16.52 6.67	4	16.67 13.12 53.75	8.33 13.12 15.91	-	+	0.074 0.025 0.285	6 6 6	36.67 77.50 28.75	6.60 16.52 6.67	4	16.67 13.12 53.75	8.33 13.12 15.91	-	+	0.074 0.025 0.285	6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000
Habitat Means Fisher's Stouffer's	Power			Power	27.87 c-50%		P-val		0.016	Power Power			Powe	27.87 r-50% r-50%	12.43 0.905	P-val		0.016 0.433	Power Power	0.00		Powe:	0.00 r-50% r-50%		⊇-val		0.655 0.500
14.1C/14.1 3	6	17.50 33.75 25.00	9.11 33.75 11.25	6 5	25.83 42.50 66.25	13.55 19.02 21.13	-	-	0.892 0.655 0.066	6 2 6	17.08 33.75 25.00	9.25 33.75 11.25	5	25.83 42.50 66.25	13.55 19.02 21,13	-	-	0.810 0.655 0.066	6 2 6	0.42 0.00 0.00	0.42 0.00 0.00	5	0.00 0.00 0.00	0.00	-	0	0.363 1.000 1.000
Eabitat Means Fisher's Stouffer's	Powe:			Powe:	44.87 r-50% r-50%		P-val		0.100 0.032	Power Power			Powe	44.87 r-50% r-50%		P-va		0.093	Power Power	0.13		Powe	0.00 r-50% r-50%		P-val		0.403 0.398

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

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

				Fu	cus St	ipes (P)	(a)						etalor	ia/P	unctaria	(AE) (b))			Mo	rpholog	ical G	coup:	Coarse 1	Filament	toue	Brow	ALT B
Site Pair M	ivd N		С	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	ĊV :	D	P	N	С	SE	N	0	SE	C	g v	P
14.1C/14.1 14.2C/14.2 62762C/50983	1 6 1 6		0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- (O	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	+	- 0	1.000 1.000 1.000
Habitat Means	3		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer's		wer wer			Power Power					0.655 0.500	Power Power				r-50% r-50%		P-value P-value		0.655 0.500	Power Power				r-50% r-50%				0.655 0.500
	2 6 2 6 2 6		0.00 0.00 0.00	0.00 0.00 0.00	4	0.00	0.00 0.00	-	o	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- 1	Ф	1.000 1.000 1.000	6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00		- 0	1.000 1.000 1.000
Habitat Means	\$		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		wer wer			Power Power					0.655 0.500	Power Power				r-50%		P-valu		0.655 0.500	Power Power				r-50% r-50%				0.655 0.500
14.1C/14.1 14.2C/14.2 62762C/50983	3 6 3 2 3 6		0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	o	1.000 1.000 1.000	6 2 6	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	- 0	0	1.000 1.000 1.000	6 2 6	0.42 0.00 0.00	0.42 0.00 0.00	5	2.92 0.00 0.00	2.08 0.00 0.00			0.329 1.000 1.000
Habitat Means	ì		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.13	0.13		0.97	0.70		-	
Fisher's Stouffer's		wer wer			Power Power					0.655 0.500	Power Power				r-50% r-50%		P-value P-value		0.655 0.500	Power Power	0.005 0.002			r-50% r-50%				0.382

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

Table C-5.279, Page 1. December 15, 1994

			Ana	lipus.	japonicu	(P)					My	elophy	cus/S	Scytosiph	on (A) (a)			1	forpholo	ogical (roup:	Fine F	ilamento	us Brow	ns,
Site Pair Mv	d N	С	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	ÇV I	,	P	N	С	SE	N	-0	SE	CA D	P
14.1C/14.1 1 14.2C/14.2 1 62762C/50983 1	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- - -	0	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	6 4 6	0.00 0.00 0.00	0.00 0.00 0.00	- c	1.	.000 .000 .000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- o	1.000 1.000 1.000
Habitat Means		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	c	>			0.00	0.00		0.00	0.00	0	
Fisher's Stouffer's	Power Power			Power Power					0.655 0.500	Power Power				r-50% r-50%		-value			Power Power			Power Power			P-value P-value	0.655 0.500
	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00		0	1.000 1.000 1.000	б б б	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- c	, 1.	.000 .000 .000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- 0	1.000 1.000 1.000
Habitat Means		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	C				0.00	0.00		0.00	0.00	0	
Fisher's Stouffer's	Power Power			Power					0.655 0.500	Power Power				r-50% r-50%		-value -value		.655 .500	Power Power			Power Power			P-value P-value	0.655 0.500
	6 2 6	0.42 0.00 0.00	0.42 0.00 0.00	5	2.92 0.00 0.00	2.08 0.00 0.00	_	φ :	0.329 1.000 1.000	6 2 6	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	- c	1.	.000 .000 .000	6 2 6	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	- 0	
Habitat Means		0.13	0.13		0.97	0.70		-			0.00	0.00		0.00	0.00	C	•			0.00	0.00		0.00	0.00	0	
Fisher's Stouffer's	Power Power	0.008		Power Power					0.382 0.390	Power Power				r-50% r-50%		-value -value		.655 .500	Power Power			Power Power			P-value P-value	0.655 0.500

⁽a) Gamera not separated.

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

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

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

		Fir	e Fil	amento	us Brown	(AE)	(b)				Morph	101091	cal G	roup: 8	accate B	rowne	B-				Leather	sia/Co	olpomenia	(A) (a	.)		
Site Pair Mv	d N	c	SE	N	0	SE	CA	D	P	N	С	SE	N	0	SE	CV	Þ	P	N	С	SE	N	0	SE	_	D V	P
	6 6 6	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.0	D -	0	1.000 1.000 2.000	6 6	0.00 0.00 0.00	0.00	1	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00	1	- 0	1.000 1.000 1.000
Habitat Means		0,00	0.00		0.00	0.0	ס	0			0.00	0.00	ı	0.00	0.00		0			0.00	0.00		0,00	0.00		0	
Fisher's Stouffer's	Power Power			Power Power					0.655	Power Power				r-50% r-50%				0.655 0.500	Power Power				r-50% r-50%				0.655 0.500
	6 6 6	0.00 0.00 0.00	0.00	4	0.00	0.0	D -	Ó	1.000 1.000 1.000	6 6	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 6	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00	1	- o	1.000 1.000 1.000
Habitat Means		0.00	0.00		0.00	0.0)	0			0.00	0.00	1	0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Power Power			Power Power					0.655	Power Power				r-50% r-50%		P-val P-val		0.655 0.500	Power Power				r-50% r-50%				0.655 0.500
	6 2 6	0.00 0.00 0.00	0.00	5	0.00	0.0 0.0 0.0	0 –	0	1.000 1.000 1.000	6 2 6	1.25 0.00 0.00	0.85 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	0		6 2 6	0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	1	- 0	1.000 1.000 1.000
Habitat Means		0.00	0.00		0.00	0.0)	0			0.43	0.30	1	0.00	0.00		,			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Power Power			Power Power					0.655 0.500	Power Power	0.008			r-50% r-50%	0.014			0.272 0.352	Power Power				r-50% r-50%				0.655

⁽b) Elachista, Ectocarpus and Pilayella.

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

				gor	ant	hera ulvoi	dea ()	A)					Morph	ologic	a1 G:	roup: Cr	istose B	r.o <u>M</u> ua	•				Ralfs	ia/Pet:	roderma	(P) (a)			
Site Pair 1	Mvd	N	c	SE	-	N O	gE		CA	D	P	N	С	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	CV	7 D	P
14.1C/14.1 14.2C/14.2 62762C/50983	1	6 6 6	0.00 0.00 0.00	0.00	0 4	4 0.00	0	.00	-		1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00	4	0.00	0.00 0.00 0.00		0	1.000 1.000 1.000	€ 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	_	- 0	1.000 1.000 1.000
Habitat Means	9		0.00	0.0	0	0.00	0	.00		Φ			0.00	0.00		0.00	0.00		O			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power				ower-50% ower-50%			-val -val		0.655 0.500	Power Power				er-50% er-50%		P-valu P-valu		0.655 0.500	Power Power			Power Power					0.655 0.500
	2 2 2	6	0.00 0.00 0.00	0.00	0 4	4 0.00	0	.00			1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00	4	1.25 0.00 0.00	1.25 0.00 0.00	-	0	0.363 1.000 1.000	6 6	0.00 0.00 0.00	0.00 0.00	4	0.00	1.25 0.00 0.00	-	- 0	0.363 1.000 1.000
Habitat Means	s		0.00	0.00	0	0.00	0	.00		o			0.00	0.00		0.43	0.43		-			0.00	0.00		0.43	0.43		-	
Fisher's Stouffer's		Power Power				ower-50% ower-50%			-val		0.655 0.500	Power Power				er-50% er-50%				0.403 0.398	Power Power			Power Power					0.403 0.398
	3 3	2	1.25 0.00 0.00	0.00	0 5	5 0.00	0	.00		0	0.183 1.000 1.000	6 2 6	0.00 0.00 0.00	0.00	5	0.42 0.00 0.00	0.42 0.00 0.00	-	Q	0.363 1.000 1.000	6 2 6	0.00 0.00 0.00	0.00	5	0.42 0.00 0.00	0.42 0.00 0.00	-	- o	0.363 1.000 1.000
Habitat Means	S		0.43	0.30	0	0.00	0	.00		+			0.00	0.00		0.13	0.13		-			0.00	0.00		0.13	0.13		-	
Fisher's Stouffer's		Power Power	0.011			ower-50% ower-50%	0.00 0.00		-vai -vai			Power Power				er-50% er-50%				0.403	Power Power			Power Power					0.403 0.398

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

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

Table C-5.280. Algal Percent Cover. Rhodophyta. Cook Inlet/Renai. 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; v = control > oiled; - = control < oiled; o = control = oiled; ? = probability value; dashes = insufficient data.

					Total	Rhodoph	yta		_		Mor	pholog	ical	Group:	Bladed R	eds					Bangi	a ap. (A	E)			
Site Pair	Myd	N	c	SE	N	٥	SE	ÇV D	P	N	С	SE	N	0	ŞE	CA D	P	N	С	SE	N	0	SE	CV I	,	P
14.1C/14.1 14.2C/14.2 62762C/5098	1	6 6 6	3.33 10.83 3.33	3.33 6.11 2.01	4	7.50 3.13 0.00	3.35 1.88 C.00	- +	0.200	6 6	0.00 3.75 0.00	0.00 3.75 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- o - + - o		б	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- (5	.000
Habitat Mea	ns		5.80	3.80		3.53	1.77	+			1.27	1.27		0,00	0.00	+			0.00	0.00		0.00	0.00		>	
Fisher's Stouffer'	5	Power Power	0,123			r-50% r-50%		P-value P-value		Power Power			Power	c-50% c-50%			0.403 0.398	Power Power				-50% -50%		P-value P-value		
14.1C/14.1 14.2C/14.2 62762C/5098	2		19.58 4.58 9.58	9.23 4.58 5.79	4	53.33 23.12 0.83	15.66 12.01 C.83		0.200	6 6	10.83 4.58 3.33	6.48 4.58 2.20	4	29.17 6.25 0.42	14.23 6.25 0.42	 +	0.808	6	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- (1	.000 .000 .000
Habitat Mea	ເກຣ		11.27	6.53		25.73	9.50	-			6.23	4.43		11.97	6.97	-			0.00	0.00		0.00	0.00	(,	
Fisher's Stouffer'	S	Power Power	0.081			r-50% r-50%		P-value P-value		Power Power	0.090 0.057		Power			P-value P-value	0.303 0.684	Power Power				-50% -50%		P-value P-value		
14.1C/14.1 14.2C/14.2 62762C/5098	3 3 3	2	20.42 15.00 5.00	6.56 15.00 1.94	5	31.67 33.50 2.50	14.94 17,26 2,50		0.013	6 2 6	1.67 3.75 0.42	0.83 3.75 0.42	5	5,83 11.00 0.00	3.57 6.60 0.00		0.624		0.00 0.00 0.00	0.00	5	0.00	0.00 0.00 0.00	~ (1	.000 .000 .000
Habitat Mea	េន		13.47	7.83		22.57	11.57	-			1.97	1.67		5.60	3.40	-			0.00	0.00		0.00	0.00	(,	
Fisher's Stouffer'		Power Power	0.062 0.055			r=50% r-50%		P-value P-value		Power Power	0.075 0.050		Power Power		0.386 I 0.460 I		0.448 0.681	Power Power				-50% -50%		P-value P-value		

x At least one site pair p-value ϵ 0.100 in opposite direction of overall tests. y Direction of difference between habital means is different than direction of overall tests. 2 Only one Site pair.

Table C-5.280. Page 1. December 15, 1994

				Gigart	inace	me Group	P (P) (a)		_			P	alma	ria spp.	(A)						Ph	ycodr	ya riggii	(A)			
Site Pair	树	N	-	BE	N	0	_E	CV I	P	N	С	SE	N	0	SE	cv	D	P	Ŋ	С	ge_	Ŋ	o	SE	CV	D	ъ
14.1C/14.1 14.2C/14.2 62762C/5098	1	6 6	0.09 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- 0	1.000 1.000 1.000	<i>6</i> 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	o	1.000 1.000 1.000
Habitat Mea	ΩS		0.00	0.00		0.00	0.00	c			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	5	Power Power			Sower Sower				0.655 0.500	Power Power				r-50% r-50%				0.655 0.500	Power Power				c-50% c-50%				0.655 0.500
14.1C/14.1 14.2C/14.2 62762C/5098.	2	6 6 6	10.42 2.92 0.00	6.24 2.92 0.00	4	2.92 6.25 0.42	2.08 6.25 0.42	- •	0.382 0.678 0.363	6 6 6	0.00 0.00 0.83		4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 0.175	6 6	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	o	1.000 1.000 1.000
Habitat Mea	as		4.43	3.03		3.20	2.93	-			0.27	0.17		0.00	0.00		+			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'		Power Power	0.011 0.030		Power Power		0.024 F 0.035 F		0.423 y 0.242	Power Power	0.012 0.012			r-50% r-50%	0.016	P-val: P-val:		0.265 0.107	Power Power				c-50% c-50%				0.655 0.500
14.1C/14.1 14.2C/14.2 62762C/5098	3 3 3 3		0.00 3.75 0.00	0.00 3.75 0.00	5	2.08 3.00 0.00	1.36 2.00 0.00	 - + - 0	0.839	6 2 6	0.00 0.00 0.00	0.00 0.00 0.00	5	0.83 1.50 0.00	0.83 1.50 0.00	-	-	0.363 0.374 1.000	5 2 6	0.00 0.00 0.00	0.00 0.00 0.00	5	0.42 0.00 0.00	0.42 0.00 0.00	-	0	0.363 1.000 1.000
Mabitat Mea	15		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 Stouffer'		Power Power	0.065 0.091		Power Power				0.293 0.372	Power Power				r-50% r-50%				0.227 0.304	Power Power				:-50% :-50%				0.403 0.398

(a) Chondrus, Iridaes, Mastocerpus 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. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1992. Cleared June 1990. (Continued.)

				Porphy	ra sp.	(A)					T	okidad	lendr	on kurile	nsis (A)					Morpholo	ogical (Group:	Coars	e Filame:	ntou	ıs Red	lø
Site Pair Mv	vd N	c	SE	N	0	SE	ĊV	D	P	N	С	SE	N	0	SE	CV 1	D	P	N	С	SE	N	0	SE	С	V D	P
14.1C/14.1 1 14.2C/14.2 1 62762C/50983 1	1 6 1 6	0.00 3.75 0.00	0.00 3.75 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	+	1.000 0.363 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- 0	0	1.000 1.000 1.000	6 6 6	1.25 7.08 3.33	1.25 5.14 2.01	4	7.50 3.13 0.00	3.35 1.88 0.00	3		0.047 0.620 0.100
Habitat Means		1.27	1.27		0.00	0.00		+			0.00	0.00		0.00	0.00	(0			3.90	2.80)	3.53	1.77	7	-	
Fisher's Stouffer's	Power Power			Power Power					0.403 0.398	Power Power				r-50% r-50%		-value -value		0.655 0.500	Power Power	0.07			r-50% r-50%				0.211x 0.140
	2 6 2 6 2 6	0.42 1.67 2.50	0.42 1.67 1.71	4	26.25 0.00 0.00	14.84 0.00 0.00	-	+	0.073 0.363 0.183	б 6 6	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- 0	0	1.000 1.000 1.000	6 6	7.92 0.00 0.42	3.79 0.00 0.42	4	3.33 16.88 0.00	1.54 7.80 0.00)		0.522 0.083 0.363
Habitat Means		1.53	1.27		8.77	4.93		+			0.00	0.00		0.00	0.00		0			2.77	1.40	1	6.73	3.10)		
Fisher's Stouffer's	Power Power	0.005		Power Power					0.219×y 0.167	Power Power				r-50% r-50%		-value		0.655 0.500	Power Power	0.04			c-50% c-50%				0.403xy 0.302
	3 6 3 2 3 6	1.67 0.00 0.42	0.83 0.00 0.42	5	0.83 6.50 0.00	0.83 4.85 0.00	-	-	0.368 0.204 0.363	6 2 6	0.00 0.00 0.00	0.00	5	1.67 0.00 0.00	1.67 0.00 0.00		o	0.363 1.000 1.000	6 2 6	10.42 11.25 1.25	2.53 11.25 0.85	5	7.08 8.50 2.50	5.64 5.22 2.50	2		0.193 0.823 0.846
Habitat Means		0.70	0.40		2.43	1.90		1			0.00	0.00		0.57	0.57		-			7.67	4.90)	6.03	4.43	3		
Fisher's Stouffer's	Power Power	0.033		Power Power					0.320 y 0.234	Power Power				r-50% r-50%		-value		0.403	Power Power	0.28			r-50% r-50%				0.273 0.398

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

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			λι	ticul	ate Co	ralline A	1gae	(A)					Crypt	osipi	honia woo	dii (A)						Endo	ocladia	muric	ata (P)			
Site Pair M	vd	N	С	SE	Ŋ	0	SE	CV	D	P	N	С	SE	N	0	SE	¢V	V D	P	N	c	SE	N	0	SE	C1	d 1	Р
	1 1 1	6	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00	-	0	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00	-		1.000 1.000 1.000	6 6 6	0.00 7.08 3.33	0.00 5.14 2.01	4	2.08 3.13 0.00	1.19 1.88 0.00	3 -		0.092 0.620 0.100
Habitat Means			0.00	0.00		0.00	0.00)	0			0.00	0.00		0.00	0.00		0			3,47	2.37		1.73	1.03	3	-	
Fisher's Stouffer's		ower			Power Power					0.655 0.500	Power Power				er-50% er-50%				0.655	Power Power	0.073		Power Power					0.208× 0.122
	2 2 2	6	0.00 0.00 0.00	0.00	4	0.00	0.00	-	0	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.83 0.00 0.00	0.83 0.00 0.00	-	- 0	0.363 1.000 1.000	6 6	0.83 0.00 0.00	0.53 0.00 0.00	4	0.83 1.25 0.00	0.83 1.25 0.00	5 .		0.767 0.391 1.000
Habitat Means			0.00	0.00		0.00	0.00)	0			0.00	0.00		0.27	0.27		-			0.27	0.17		0.70	0.70)	-	
Fisher's Stouffer's	_	ower			Power Power			P-va P-va		0.655 0.500	Power Power				er-50% er-50%				0.403	Power Power	0.007		Power Power					0.467
14.1C/14.1 14.2C/14.2 62762C/50983	3	2	0.00 0.00 0.00	0.00	5	4.58 0.00 0.00	4.58 0.00 0.00	-		0.363 1.000 1.000	6 2 6	2.92 0.00 0.42	2.08 0.00 0.42	5	0.00 4.00 0.00	0.00 2.92 0.00	-		0.189 0.199 0.363	6 2 6	0.00 0.00 0.00	0.00	5	0.00 0.00 0.00	0.00) .	- 0	1.000 1.000 1.000
Habitat Means			0.00	0.00		1.53	1.53	3	-			1.10	0.83		1.33	0.97		+			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer's		ower			Power Power					0.403 0.398	Power Power	0.018			r-50% r-50%				0.214 y 0.200	Power Power			Power Power					0.655 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.
y Only one site pair.

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

			Gloi	opelt	is furc	ata (A)						Micro	oclad	ia boreal	is (A)					1	Neorhod	omela.	/Rhodome	la (P) ((a)		
Site Pair Mvd	N	С	SE	N	0	SE	C1	7 D	P	N	c	ge	N	0	SE	CV I	0	P	N	c	SE	N	0	SE		CV D	P
14.2C/14.2 1	6 6 6	1.25 0.00 0.00	1.25 0.00 0.00	4	5,42 0.00 0.00	2.6 0.0 0.0	0 -	- 0	0.207 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- 0	>	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	0	- 0	1.000 1.000 1.000
Habitat Means		0.43	0.43		1.80	0.8	7	-			0.00	0.00		0.00	0.00	•	0			0.00	0.00		0.00	0.00	0	0	
	Power	0.063 0.015		Power Power					0.293 0.360	Power Power				r-50% r-50%		P-value P-value		0.655 0.500	Power Power				r-50% r-50%				0.655 0.500
14.2C/14.2 2	б 6 6	3.75 0.00 0.00	2.56 0.00 0.00	4	0.00 15.63 0.00	0.0 7.3 0.0	2 -		0.183 0.082 1.000	6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- 0	•	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	1.25 0.00 0.00	1.25 0.00 0.00	0	~ 0	0.363 1.000 1.000
Habitat Means		1.27	0.87		5.20	2.4	3	-			0.00	0.00		0.00	0.00	c	>			0.00	0.00		0,43	0.43	3	-	
	ower?	0.053 0.004		Power Power		0.006			0.240 0.454	Power Power				r-50% r-50%		?-value ?-value		0.655 0.500	Power Power	==			r-50% r-50%				0.403 0.398
14.2C/14.2 3	6 2 6	3.33 0.00 0.00	2.11 0.00 0.00	5	0.00 0.00 2.50	0.0 0.0 2.5	ο -		0.175 1.000 0.391	6 2 6	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	- 0)	1.000 1.000 1.000	6 2 6	2.08 0.00 0.00	1.36 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	0	- 0	0.178 1.000 1.000
Habitat Means		1.10	0.70		0.83	0.8	3	٠			0.00	0.00		0.00	0.00	c)			0.70	0.47		0.00	0.00	Û	-	
	Power Power	0.015 0.006		Powe:		0.020			0.350 0.655	Power Power				r-50% r-50%		P-value P-value		0.655 0.500	Power Power	0.01 0.00			r-50% r-50%				0.268 0.350

(a) Congra not separated.
 x At least one site pair p-value < 0.100 in opposite direction of 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

- 0.11, 0.10 2100 2																											-		
			1	Odon	tball:	flocc	osa (P)						Ptilo	ta/Ne	optilota	(P) (b)					Mor	pholog	ical (Group:	Saccate	Rec	1s	_
Site Pair 1	Mvd N	С	SE	3	N	0	SE		CA	D	P	N	c	SE	N	0	SE	ÇV	D	P	N	C	SE	N	0	SE	c	CV D	P
14.1C/14.1 14.2C/14.2 62762C/50983	1 6 1 6 1 6	0.00 0.00 0.00	C	0.00	4	0.00 0.00 0.00	0.	00 00 00	-	o 1. o 1. o 1.	.000	6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	0	- 0	1.000 1.000 1.000
Habitat Means	s	0.00	C	00.0		0.00	0.	.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	J	O	
Fisher's Stouffer's	Powe Powe	_	-		Power Power				-valu -valu			Power Power				r-50% r-50%				0.655 0.500	Power Power				±-50% ±-50%				0.655 0.500
	2 6 2 6 2 6	3.33 0.00 0.42	0	3.33 0.00 3.42	4	0.42 0.00 0.00	0.	.42 .00 .00	-	+ 0. 0 1. - 0.	000	6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 6 6	0.00 0.00 1.25	0.00 0.00 0.85	4	0.83 0.00 0.42	0.83 0.00 0.42	D		0.363 1.000 0.462
Habitat Means	s	1.23	1	.23		0.13	0.	13		-			0.00	0.00		0.00	0.00		0			0.43	0.30		0.40	0.40	ð	-	
Fisher's Stouffer's	Powe Powe		- 		Power Power				-valu -valu			Power Power				r-50% r-50%				0.655 0.500	Power Power	0.001			r-50% r-50%				0.503 y 0.660
14.10/14.1 14.20/14.2 627620/50983	3 6 3 2 3 6	2.08 3.75 0.83	3	1.64 3.75).83	5	1.67 3.00 0.00	3.	.24 .00 .00		. 0.	.922 .713 .363	6 2 6	0.00 7.50 0.00	0.00 7.50 0.00	5	0.83 1.50 0.00	0.83 1.50 0.00	-	+	0.363 0.354 1.000	6 2 6	0.83 0.00 0.00	0.53 0.00 0.00	5	2.08 2.00 0.00	1.36 1.46 0.00	6		0.635 0.198 1.000
Habitat Means	.5	2.23	2	2.07		1.57	1.	40		+			2,50	2.50		0.77	0.77		+			0.27	0.17		1.37	0.97	7	-	
Fisher's Stouffer's	Powe Powe		052 088		Power Power		0.210		-valu -valu			Power Power				r-50% r-50%				0.512 0.498	Power Power	0,100 0,150			r-50% r-50%				0.217 0.308

⁽b) Genera not separated.

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

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

				на1ова	ccio	n glandi	forme (l	١)					Ha.	Losac	ccion spp.	(A)			_		Morphol	ogical	Group	: fine	Filamen	tous 1	Reds	ı
Site Pair	Mvd	N	С	SE	N	o	SE	c,	ם	P	N	c	SE	N	٥	SE	ÇV	D	P	N	c	SE	N	0	SE	CV	D	P
14.1C/14.1 14.2C/14.2 62762C/50983	1 1 1	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.0 0.0 0.0	0 .	0	7 1 2 2 7	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000
Habitat Mean	s		0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	1	o	
Fisher's Stouffer's		Power Power				r-50% r-50%				0.655 0.500	Power Power				er-50% er-50%				0.655 0.500	Power Power			Power	~50% ~50%				0.655 0.500
14.1C/14.1 14.2C/14.2 62762C/50983	2	6 6	0.00 0.00 1.25	0.00 0.00 0.85	4	0.83 0.00 0.42	0.8 0.0 0.4	0 -	0		6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0,00 0,00 0,00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 6 6	0.83 0.00 4.58	0.83 0.00 3.19	1	0.00 0.00 0.00	0.00 0.00 0.00	-	0	0.363 1.000 0.120
Habitat Mean:	s		0.43	0.30		0.40	0.4	0	-			0.00	0.00		0,00	0.00		o			1.80	1.33		0.00	0.00		1	
Fisher's Stouffer's		Power Power	0.002 0,003			r-50% r-50%	0.008 0.001			0.503 y 0.660	Power Power				er-50% er-50%				0.655 0.500	Power Power	0.070		Power Power	-50% -50%		P-val P-val		0.108
14.1C/14.1 14.2C/14.2 62762C/50983	3 3 3	6 2 6	0.83 0.00 0.00	0.53 0.00 0.00	5	2.08 2.00 0.00	1.3 1.4 0.0	6 -	- 0	0.635 0.198 1.000	6 2 6	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 00.0 00.0	-	D	1.000 1.000 1.000	6 2 6	7.50 0.00 3.33	3.76 0.00 2.01	5	0.00 0.00 0.00	0.00 0.00 0.00	_	0	0.085 1.000 0.100
Habitat Means	s		0.27	0.17		1.37	0.9	7	-			0.00	0.00		0.00	0.00		0			3.60	93		0.00	0.00			
Fisher's Stouffer's		Power Power	0.116 0.161			r-50% r-50%	0.015 0.015	P-V6		0.217 0.308	Power Power				er-50% er-50%		P-va: P-va:		0.655 0.500	Power Power			Power Power	2-50% 2-50%				0.033 0.023

x At least one side pair p-value < 0.100 in opposite direction of overall tests.</p>
y Direction of difference between habitat means is different than direction of overall cests.
only one site pair.

				Callí	itham	níon pikea	A) mun)				Poly	reipho	nia/E	terosiph	onia (A)	(a)				Mor	holog	ical (Proup: C	rustose	Reds	
Site Pair	Mvd	N	С	SE	N	o	SE	C	r b	P	N	С	SE	N	o	SE	cv	D	P		-	-		-	_	ĹΠ	
14.1C/14.1 14.2C/14.2 62762C/50983	1	6 6 6	0.00 0.00 0.00	0.00) 4	0.00 0.00 0.00	0.0 0.0 0.0	0 -	0	1.000 1.000 1.000	6 6 6	0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- - -	0	1.000 1.000 1.000	6 6 6	2.08 0.00 0.00	2.08 0.00 0.00	4	0.00 0.00 0.00	0.00) -	0.363 1.000 1.000
Nabitat Mear	as		0.00	0.00)	0.00	0.0	0	o			0.00	0.00		0.00	0.00		0			0.70	0.70		0.00	0.00)	-
Fisher's Stouffer's	s	Power Power				er-50% er-50%			lue	0.655 0.500	Power Power				r-50% r-50%		-val		0.635 0.500	Power Power				r-50% r-50%			0.403
14.1C/14.1 14.2C/14.2 62762C/50983	2 2 3 2		0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.0	0 -	_	1.000 1.000 1.000	6 6	0.83 0.00 4.58	0.83 0.00 3.19	6 4 6	0.00 0.00 0.00	0.00 0.00 0.00	- - -	0	0.363 1.000 0.120	6 6 6	0.00 0.00 0.00	0.00	4	20.00 0.00 0.00	12.6° 0.00	3 - (0.175 1.000 1.000
Habitat Mean	ns		0.00	0.00)	0.00	0.0	0	o			1.80	1.33		0.00	0.00		4			0.00	0.00		6.67	4,23	3	
Fisher's Stouffer's	s	Power Power				er-50% er-50%		P-va	lue lue	0.655 0.500	Power Power	0.072			r-50% r-50%		-val		0.108	Power Power	0.021 0.019			≚-50% £-5 0%			0.265
14.1C/14.1 14.2C/14.2 62762C/50983	3	6 2 6	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.0	0 -	0	1.000 1.000 1.000	6 2 6	7.50 0.00 3.33	3.76 0.00 2.01	5	0.00 0.00 0.00	0.00 0.00 0.00		0	0.085 1.000 0.100	6 2 6	0.00 0.00 0.00	0.00 0.00 0.00	5	16.67 12.00 0.00	16.67 9.70 0.00)	0.363 0.224 1.000
Habitat Mear	าร		0.00	0.00)	0.00	0.0	0	0			3.60	1.93		0.00	0.00		-			0.00	0.00		9.57	8.80)	
Fisher's Stouffer's		Power Power				er-50% er-50%				0.655 0.500	Power Power				r-50% r-50%		-val		0.033	Power Power	0.015 0.038			r-50% r-50%			0.164

⁽a) Genera not separated.

Table C-5,280, Page 7, December 15, 1994

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

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

	Crustose Coralline Alga)					Hil	ldenbı	randia ap.	(P)							Petr	ocelis (P)			
Site Pair M	tvd N		С	SE	N	O	SE	CA	D	P	N	c	SE	N	0	SE	CA	D	P	М	С	8E	N	0	SE	cv	D	P
	1 6 1 6 1 6		0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00		0	1.000 1.000 1.000	6 6	2.08 0.00 0.00	2.08 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	0.363 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	O	1.000 1.000 1.000
Habitat Means			0.00	0.00		0.00	0.00		О			0.70	0.70		0.00	0.00		+			0.00	0.00		0.00	0.00		0	1.000
Fisher's Stouffer's	Pov Pov				Power Power					0.655 0.500	Power Power				r-50% r-50%		P-val: P-val:		0.403 0.398	Power Power				r-50% r-50%	F		lue	0.655 0.500
	2 6 2 6 2 6		0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 6 6	0.00	0.00 0.00 0.00	4	20.00 0.00 0.00	12.67 0.00 0.00	-	0	0.175 1.000 1.000	5 6 6	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00	-	0	1.000 1.000 1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		6.67	4.23		_			0.00	0.00		0.00	0.00		0	1.000
Fisher's Stouffer's	Pow Pow				Power Power					0.655 0.500	Power Power	0.017 0.015			r-50% r-50%				0.265 0.349	Power Power				c-50% c-50%	P		пe	0.655
14.1C/14.1 14.2C/14.2 62762C/50983	3 6 3 2 3 6	1	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 2 6	0.00 0.00 0.00	0.00 0.00 0.00	5	16.67 0.00 0.00	16.67 0.00 0.00	-	0	0.363 1.000 1.000	6 2 6	0.00	0.00	5	0.00 12.00 0.00	0.00 9.70 0.00	-	0	1.000 0.224 1.000
Habitat Means		(0.00	0.00		0.00	0.00		0			0.00	0.00		5.57	5.57		_			0.00	0.00		4.00	3.23		_	1.000
Fisher's Stouffer's	Pow Pow				Power Power					0.655 0.500	Power			Power	r-50% r-50%				0.403	Power Power	0.001			-50% -50%				0.307

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

Table C-5.281. Algal Percent Cover. Invertebrates. Cook Inlet/Renai. 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; i = control > oiled; - = control < oiled; O = control = oiled; P = probability value; dashes = insufficient data.

	Actiniidae												Bal	anomorph	a							Polyg	lacophor	a			
Site Pair Mv	d N	С	SE	N	D	SE	cv	D	P	N	c	SE	N	0	Se	CV	D	P	N	С	SE	N	0	SE	C	d vo	Р
	. 6 . 6	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0,00 0.00 0.00	-		1.000 1.000 1.000	6 6 6	0.42 13.33 42.92	0.42 9.28 15.70	4	1.67 3.13 5.83	0.53 3.13 3.46	_		0.092 0.514 0.034	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 0.00 0.00	0.00 0.00 0.00)	- o	1.000 1.000 1.000
Habitat Means		0.00	0.00		0.00	0.00		0			18.87	8.47		3.53	2.37		_			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Power Power			Power					0.655 0.500	Power Power				r-50% r-50%		P-val P-val		0.090x 0.050	Power Power				-50% -50%				0.655 0.500
	6	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 6 6	0.00 0.00 11.67	0.00 0.00 3.52	4	3.75 8.75 5.83	2.80 5.15 2.93	-		0.131 0.184 0.294	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00)	- 0	1.000 1.000 1.000
Habitat Means		0.00	0.00		0.00	0.00		٥			3.90	1.17		6.13	3.63		-			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer's	Power Power			Power					0.655 0.500	Power Power	0.171			er-50% er-50%		P-val P-val		0.103 0.560	Power				r-50% r-50%				0.655 0.500
	6 3 2 3 6	0.00 0.00 0.00	0.00	5	0.00 0.00 0.00	0.00 0.00 0.00		0	1.000 1.000 1.000	6 2 6	5.00 0.00 31.67	2.81 0.00 9.78	5	0.00 0.50 1.25	0.00 0.50 1.25	-	-	0.101 0.374 0.007	6 2 6	0.00 0.00 0.00	0.00	5	0.00 0.00 0.00	0.00 0.00 0.00)	- 0	1.000 1.000 1.000
Habitat Means		0.00	0.00		0.00	0.00		0			12.23	4.20		0.60	0.60		+			0.00	0.00	1	0.00	0.00)	0	
Fisher's Stouffer's	Power Power			Power Power					0.655 0.500	Power Power				er-50% er-50%		P-val P-val		0.007	Power				r-50% r-50%				0.655 0.500

x At least one size pair p-value < 0.109 in opposite direction of overall tests.
y Direction of difference between babitat means is different chan direction of overall tests.
z Only one site pair.

Table C 5.281. Page 1. December 15, 1994

					Lo	ttiidae								м	ytilus							N	Nice11	a lamello)Sa.			
Site Pair	Hvd.	N	С	SE	N	0	SE	CV	D	P	N	С	58	N	Ų	35	ev	ע	P	N	C	88	N	U	#5		ט זיי	r
14.1C/14.1 14.2C/14.2 62762C/5098	1 1 3 1	6	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	ø	1.000 1.000 1.000	6 6 6	0.00 0.00 8.33	0.00 0.00 5.43	4	0.83 3.13 3.33	0.53 3.13 1.79	-	-	0.175 0.391 0.715	6 6 6	0.00 0.00 0.00	0.00	4 6	0.00 0.00 0.00	0.0	0	- o	1.000 1.000 1.000
Habitat Mean	ns		0.00	0.00		0.00	0.00		0			2.77	1.80		2.40	1.80		-			0.00	0.00		0.00	0.0	0	٥	
Fisher's Stouffer's		Power Power				r-50% r-50%				0.655	Power Power	0.098 0.109			c-50% c-50%				0.172 y 0.383	Power Power				r-50% r-50%				0.655 0.500
14.1C/14.1 14.2C/14.2 62762C/5098	2 2 3 2	6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.63 0.00	0.00 0.63 0.00	-	-	1.000 0.391 1.000	6 6 6	0.00 0.00 10.83	0.00 0.00 6.48	4	0.00 1.88 2.50	0.00 1.88 2.50	-	-	1.000 0.391 0.244	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.0	00	- 0	1.000 1.000 1.000
Habitat Mea	ກຮ		0.00	0.00)	0.20	0.20)	-			3.60	2.17		1.47	1.47		٠			0.00	0.00		0.00	0.0	0	0	
Fisher's Stouffer's		Power Power				r-50% r-50%				0.419	Power Power	0.009			r-50% r-50%	0.015			0.420 0.206	Power Power				r-50% r-50%				0.655 0.500
14,1C/14.1 14.2C/14.2 62762C/5098	3		0.00 0.00 0.00	0.00	5	0.00	0.00 0.00 0.00) –	0	1.000 1.000 1.000	6 2 6	0.00 0.00 8.75	0.00 0.00 5.62	5	0.00 0.00 12.50	0.00 0.00 12.50	-	0	1.000 1.000 0.936	6 2 6	0.00 0.00 0.00	0.00	5	0.00 0.00 0.00	0.0 0.0 0.0	0 (- 0	1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00)	0.00	0.00)	0			2,93	1.87		4.17	4.17		-			0.00	0.00		0.00	0.0	10	0	
Fisher's Stouffer'		Power Power				r-50% r-50%				0.655 0.500	Power Power	0.005 0.004			±-50% ±-50%		P-val: P-val:		0.637 0.471	Power Power				r-50% r-50%				0.655 0.500

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

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

					- 1								P	orifera							CI	ideria				
					N	orinidae	SE	CV	D P		c	SE	N	0	SE	CV I	P	N	С	SE	N	0	SE	cv	D	P
ite Pair	Maq	N	С	SE	я			-				0 00	,	0.00	0.00		1.000	6	0.00	0.00	6	0.00	0.00			1.000
1.1C/14.1 1.2C/14.2	1	6	0.00	0.00	4	0.42 1.25 0.00	0.42 1.25 0.00		- 0.36 - 0.39 o 1.00	6	0.00 0.00 0.00	0.00	4	0.00	0.00	- (1.000	6	0.00	0.00	4	0.00	0.00			1.000
2762C/5098		6	0.00	0.00	6	0.57	0.57		-	·	0.00	0.00		0.00	0.00	ď			0.00	0.00		0.00	0.00		0	
abitat Mean Fisher's		Power	0.00	0.00	Power	-50%	F	-valu	e 0.23 e 0.30	Power				r-50% r-50%		P-value P-value		Power Power				-50% -50%				0.655
Stouffer's 4.1C/14.1 4.2C/14.2 2762C/5098	2 2	6	0.00	0.00	6 4	0.00	0.00 0.00 0.00	-		6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- 0	1.000	6	0.00	0.00	4 6	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000
abitat Mea			0.00	0.00		0.00	0.00		0		0.00	0.00		0.00	0.00	(0.00	0.00				P-val		0 66
Fisher's		Power			Power				ie 0.65					er-50% er-50%		P-valu P-valu	0.655					r-50% r-50%		P-val	uе	0.50
Stouffer' 4.1C/14.1 4.2C/14.2	3	2	0.00	0.00	6 5	0.00	0.00	-	o 1.00 o 1.00 o 1.00	6	0.00	0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	1.000 1.000 1.000	2	0.00	0.00 0.00 0.00	5	0.00	0.00 0.00 0.00	-	O	1.000
2762C/5098		6	0.00			0.00	0.00		0		0.00	0.00		0.00	0.00		5		0.00	0.00		0.00	0.00)	0	
Fisher's		Power	0.00	0.00	Power	-50%)	P-val	ie 0.65	Power Power			Powe	er-50% er-50%		P-valu P- va lu	e 0.655 e 0.500					r-50% r-50%				0.655

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

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 = motor vertical drop; N = sample size; C = control mean; O oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; r = control > oiled; r = control < oiled; p = probability value; dashes = insufficient data.

					Rock								01	led Rock									Mud				
Site Pair	Mvd N	c	SE	N	0	\$E	cv	D	P	N	С	SE	N	0	SE	CA	D	P	N	С	SE	N	0	82	ÇV	D	P
14.1C/14.1 14.2C/14.2 62762C/50983	1 6 1 6 1 6	70.00 43.75 32.50	10.31 15.41 15.22	4	58.33 89.38 39.58	8.03 4.83 13.36	-	- 1	0.349 0.061 0.489	6	0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- - -	0	1.000 1.000 1.000	6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00	- ,	0 1	1.000 1.000 1.000
Habitat Mean	s	48.77	13.63		62.43	8.73		-			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		D .	,
Fisher's Stouffer's	Pow			Power Power		0.379 0.457	P-valu P-valu			Power Power				r-50% r-50%				0.655	Power Power				c-50%		-valu		
14.1C/14.1 14.2C/14.2 62762C/50983	2 6 2 6 2 6	43.75 16.67 36.67	13.83 16.67 12.41	4	22.50 52.50 15.42	14.63 10.46 6.37	-	- 1	0.243 0.144 0.194	6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00	4	0.00	0.00		5 1	1.000
Habitat Mean	s	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			
Fisher's Stouffer's	Pow			Power Power			P-valu P-valu			Power Power				r-50% r-50%				0.655 0.500	Power Power			Power		~ P	-valu		
14.1C/14.1 14.2C/14.2 62762C/50983	3 6 3 2 3 6	53.33 0.00 5.42	12.09 0.00 3.32	5	0.00 2.00 17.50	0.00 1.46 10.16	-	- {	0.003 0.198 0.393	e 5 6	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 2 6	0.00 0.00 0.00	0.00	5	0.00	0.00	- 6) 1	.000
Habitat Means	S	19.57	5.13		6.50	3.90		-			0.00	0.00		0.00	0.00		Ð			0.00	0.00		0.00	0.00			
Fisher's Stouffer's	Pow Pow			Power Power		0.466 0.522				Power Power				r-50% r-50%				0.655	Power Power			Power			-value	2 0	

x At 1646t one site pair p-value < 0.100 in opposite direction of overall tests.</p>
y Direction of difference between habinal means is different than direction of overall tests.
2 Dhly one site pair.

Table C:5.282. Page 1. December 15, 1994

	_	 			Sand								Shel:	l Fragmen	-						F	ilame:	ntous Dia	COME			
Site Pair My	rđ N	¢	SE	N	0	3 E	CA	D	P	M	С	SE	N	0	SE	CA	D	P	N	С	9E	N	0	SE	_	CV D	P
62762C/50983 1	. 6	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00	7 -	0	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-		1.000 1.000 1.000	6 6	0.00 0.00 0.00	0.00	4	0.00	0.00)	~ 0	1.000 1.000 1.000
Habitat Means		0.00	0.00		0,00	0.00)	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer's	Pow				r-50% r-50%				0.655	Power Power				r-50% r-50%				0.655 0.500	Power Power				r-50% r-50%				0.655 0.500
	6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 16.25	0.00 0.00 16.25	- (0	1.000 1.000 0.363	6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00		0	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00	4	0.00	0.00)	• 0	1.000 1.000 1.000
Habitat Means		0.00	0.00		5.43	5.43		-			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Pow Pow				c-50% c-50%		P-val P-val			Power Power				r~50% r~50%				0.655	Power Power				r-50% r-50%				0,655 0.500
14.1C/14.1 3 14.2C/14.2 3 62762C/50983 3	6 2 6	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00	-	0	1.000	6 2 6	0.00 0.00 0.00	0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 2 6	0.00 0.00 0.00	0.00 0.00 0.00	5	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			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Pow Pow			Power Power	-50% -50%		P-valı P-valı		0.655 0.500	Power Power				r-50% r-50%				0.655 0.500	Power Power				r-50% r-50%	1	P-1	/alue	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. 2 only one site pair.

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

					Sand	and Mud								Tota1	Bubstra	ate												
Site Pair M	vd 1	N	С	SE	N	0	SE	cv	Đ	P	N	c	SE	N	0	SE	CA D)	P	N	С	SE	N	0	SE	CV	0	P
14.1C/14.1 14.2C/14.2 62762C/50983	1 1	6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	~	0 3	1.000 1.000 1.000	6 6 6	70.00 43.75 32.50	10.31 15.41 15.22	4	58.33 89.38 39.58	8.03 4.83 13.36		0.										
Habitat Means			0.00	0.00		0.00	0.00		0			48.77	13.63		62.43	8.73	-											
Fisher's Stouffer's		ower			Power Power			P-valu P-valu			Power Power	0.404 0.269			r-50% r-50%	0.439	P-value P-value			Power Power			Power -			P-valu P-valu		
	2 2 2	6	0.00 0.00 0.00	0.00	4	0.00 0.00 16.25	0.00 0.00 16.25	-	0 3	1.000 1.000 0.363	6 6	43.75 16.67 36.67	13.83 16.67 12.41	4	22.50 52.50 31.67	14.63 10.46 14.30		0.	144									
Habitat Means	;		0.00	0.00		5.43	5.43		-			32.40	14.30		35.57	13.13	-											
Fisher's Stouffer's		ower			Power Power			P-valu P-valu			Power Power	0.058 0.026			r-50% r-50%	0.321 0.397	P-value P-value			Power Power			Power-			P-valu P-valu		
	3 3 3	2	0.00 0.00 0.00	0.00	5	0.00 0.00 0.00	0.00	-	0 3	1.000 1.000 1.000	6 2 6	53.33 0.00 5.42	12,09 0.00 3.32	5	0.00 2.00 17.50	0.00 1.46 10.16		0.	003 198 393									
Habitat Means	3		0.00	0.00		0.00	0.00		0			19.57	5.13		6.50	3.90	-											
Fisher's Stouffer's		ower ower			Power Power			P-valı P-valı			Power Power	0.089 0.002			r-50% r - 50%		P-value P-value		247xv 385	Power Power			Power Power			P-valu P-valu		

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

Table C-5.283. Aigal 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.

		Algal Dive	rsity In	dex (a)					λlgai	Taxa	Richne	es (b)						Tot	al Algae	,		
Site Pair Mvd N	C E	E N	0	SE	CV D	P	N	С	SE	N	0	SE	CA D	P	N	С	SE	N	0	SE	CV D	P
50389C/50389 1 0 51091C/51091 1 0 62802C/50226 1 0		0 0 1	0.00		-		0 0 0			0 0 1	0.00		-		0			0 0	0.00		-	
Habitat Means			0.00	~-							0.00								0.00			
Fisher's Power Stouffer's Power			r-50% r-50%		P-value P-value		Power Power			Power-			P-value P-value		Power Power			Power			P-value P-value	
50389C/50389 2 0 51091C/51091 2 0 62802C/50226 2 0		0 0	 		-		0 0 0			0 0 0	 		-		0			0 0			-	
Habitat Means				~-							- -				_			- ~				
Fisher's Power Stouffer's Power		Power			P-value P-value		Power Power			Power-			P-value P-value		Power Power	~-		Power Power			P-value P-value	
50389C/50389 3 0 51091C/51091 3 0 62802C/50226 3 0		0 0		~-	-		0 0 0			0		 	-		0			0 0			-	
Habitat Means				~-											-	- -					_	
Fisher's Power Stouffer's Power		Power Power			P-value P-value		Power Power			Power-			P-value P-value		Power Power	~-		Power Power			P-value	

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

				Total 3	Invertebr	ates						Rock							Pere	nnials (P)		
Site Pair My	vd N	С	SE	N	0	SE	GA D	P	N	c i	SE 1	1 0	SE	CA D	P	N	С	SE	N	0	SE	CA D	P
50389C/50389 1 51091C/51091 1 62802C/50226 1	1 0		-	- 0 - 0 - 1	2.50		-	===	0 0 0		((97.50		-		0 0			0 0	0.00		_	
Habitat Means			-	-	2.50	~-						97.50								0.00			
Fisher's Stouffer's	Power Power				r-50% r-50%		P-value P-value		Power Power			wer-50%		P-value P-value		Power Power				r-50% r-50%		P-value P-value	
50389C/50389 2 51091C/51091 2 62802C/50226 2	2 0	 	-	- 0 - 0	 		-		0 0 0		((]				0			0 0			<u> </u>	
Habitat Means			-	-		~ -																	
Fisher's Stouffer's	Power Power				r-50% r-50%		P-value P-value		Power Power			wer-50%		P-value P-value		Power Power				r~50% r~50%		P-value P-value	
50389C/50389 3 51091C/51091 3 62802C/50226 3	3 0	 	-	- 0 - 0 - 0	 		-		0 0 0		0 0			-		0			0 0			-	
Habitat Means			-	-												_							
Fisher's Stouffer's	Power Power				r-50% r-50%		P-value P-value		Power Power			wer-50% wer-50%		P-value P-value		Power Power				r-50% r-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.

 $[\]kappa$ At least one site pair p-value < 0.100 in opposite direction of overall tests, y direction of difference between babitat means is different than direction of overall tests, only one site pair.

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

					Annu	als (A)								Epher	nerals (A	E)										
Site Pair M	vd N	c	s	E	N	0	SE	CV	D	P	N	c	SE	Ŋ	0	SE	GA D	P	N	С	SE	N	0	88	GA D	P
50389C/50389 : 51091C/51091 : 62802C/50226	1 0		 		0	0.00	-				0 0 0	==	-	0 0 1	0.00		-									
Habitat Means Fisher's Stouffer's	Pow Pow	ver			Power Power			P-va			Power Power		-		0.00 r-50% r-50%		P-value P-value		Power Power			Powe:	c-50% c-50%		P-value P-value	
50389C/50389 51091C/51091 62802C/50226	2 0				0	==					0			0 0			-									
Habitat Means Fisher's Stouffer's	Pow Pow	ver			Power Power			P-va P-va			Power Power		-		er-50% er-50%		P-value P-value		Power Power				r-50% r-50%		P-value P-value	
50389C/50389 51091C/51091 62802C/50226	3 0				Ō		-				0			0 0			-									
Habitat Means Fisher's Storffer's		wer			Power Power			- P-va P~va			Power Power		-	Powe	er-50% er-50%		P-value P-value		Power Power				r-50% r-50%		P-value P-value	

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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 habital means is different than direction of overall tests.
z Only one afte pair.

Table C-5.284. Algal Percent Cover. Chlorophyta. Cook Inlet/Renai. 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 Chloro	phyta		Morph	ological (Froup: B	laded Greens				Bladed Gr	eens (Al	3) (a)	
Site Pair Mvd N	C SE	и о	SE CV D	P N	c s	se n	0	SE CV D	P	N	С	se n	0	SE CV D	P
50389C/50389 1 0 51091C/51091 1 0 62802C/50226 1 0	 	0 0 1 0.00		0 0		0 0 1	0.00	- 		0 0 0		0 0 1	0.00	 	
Habitat Means		0.00					0.00						0.00		
Fisher's Power Stouffer's Power		Power-50% Power-50%	P-value P-value	Power			r-50% r-50%	P-value P-value		Power Power		Power Power		P-value P-value	
50389C/50389 2 0 51091C/51091 2 0 62802C/50226 2 0		0 0		0 0 0	 	0 0 0	 	: :		0 0 0		0 0 0		 	
Habitat Means												~ ~			
Fisher's Power Stouffer's Power		Power-50% Power-50%	P-value P-value	Power Power			r-50% r-50%	P-value P-value		Power Power		Power Power		P-value P-value	
50389C/50389 3 0 51091C/51091 3 0 62802C/50226 3 0	 	0 0		0 0	 	0 0 0		 	 	0 0 0		0 0 0		 	
Habitat Means	==														
Fisher's Power Stouffer's Power		Power-50% Power-50%	P-value P-value	Power			r-50% r-50%	P-value P-value		Power Power		Power Power		P-value P-value	

isl Korymannia, Monnetroma Blva and Ulvaria. x At least one site pair p-value < 0.100 in opposite direction of overall tests.) Direction of difference between habitat means is different than direction of overall tests. 2 Only one site pair.

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

	Mo	rphologi	cal (Group:	Fine Fi	ilament	ous Green	9			Acro	aiphonia	a sp.	(A)						Cladopho	ora sp.	(AE)		
Site Pair Mvd N		c :	9E	N	0	SE	GA D	P	N	С	ge :	N ()	SE	GA D	P	N	С	SE	N	0	SE	CV D	P
50389C/50389 1 0 51091C/51091 1 0 62802C/50226 1 0		 	 	- ŏ	0.00				0 0 0	 	 	0 0 1 0.	 .00		- -		0 0 0			0 0 1	0.00		-	
Habitat Means					0.00							0	.00								0.00			
	wer wer			Power Power			P-value P-value		Power Power			ower-509 ower-509			-value		Power Power			Power Power			P-value P-value	
50389C/50389 2 0 51091C/51091 2 0 62802C/50226 2 0		 		- ŏ	 		-		0 0 0			0 0 0			-		0 0			0 0			=	
Habitat Means				-							~													
	wer wer			Power Power			P-value P-value		Power Power			ower-509 ower-509			-value -value		Power Power			∋ower Power			P-value P-value	
50389C/50389 3 0 51091C/51091 3 0 62802C/50226 3 0				- ŏ	 				0 0 0		 	0 0 0		 	- - -		0 0 0	 		0 0 0	==		-	
Habitat Means				-																				
	wer			Power Power			P-value P-value		Power Power			ower-509 ower-509			-value -value		Power Power			Power Power			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. Fig. 2 only one site pair.

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

		Morp	hologi	ical	Gro	up:	Tubular	and S	acca	te Gree	ns		В	liding	ia/En	teromorph	a (AE)	(a)					
Site Pair My	vđ N		С	SE		N	0	SE		CV D	P	N	С	SE	N	0	ge	CV	D F				 2
50389C/50389 1 51091C/51091 1 62802C/50226 1	1 0				 	0 0 1	0.00			- -		0 0 0			- 0	0.00				-			
Habitat Means Fisher's Stouffer's	Po	wer wer				Power Power				value value		Power Power			Powe	0.00 er-50% er-50%		P-valu P-valu			Power Power	 Power-50% Power-50%	P-value P-value
50389C/50389 2 51091C/51091 2 62802C/50226 2	2 0				==	0	 			-		0 0 0		-	- 0 - 0 - 0		=	-		-			
Habitat Means Fisher's Stouffer's	Po	wer				Power Power				valuė valuė		Power Power			Pow	er-50% er-50%		P-valu P-valu			Power Power	 Power-50% Power-50%	 P-value P-value
50389C/50389 1 51091C/51091 1 62802C/50226 1	3 0				 	0 0	 					0 0 0		-	- 0 - 0			-		-			
Habitat Means Fisher's Stouffer's	Po	wer				Power Power				value value		Power Power			Pow	er-50% er-50%		P-val: P-val:			Power Power	 Power-50% Power-50%	 P-value P-value

⁽a) Genera not separated.

x At least one site pair p-value ϵ 0.100 in opposite direction of 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. Phasophyta. Cook Inlet/Kenai. Coarse Textured. June 1991. Cleared September 1989.

Results of statistical differences between means of control and oiled site pairs. MVD moter vertical drop; N - sample size; C = control mean; O = oiled mean; CV coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o control = oiled; P = probability value; dashes insufficient data.

											Mort	hologica	1 Group:	Bladed	Brown	18				Tot	al Fuct	ıs gardne	eri (P)		
		M	c	SE	Total	Phaeophy	SE	CV D	P	N	C		N O	SE	C	V D	P	N	С	SE	N	0	SE	CA D	Þ
0389C/50389 1091C/51091 2802C/50226	. 1	0			- 0	0.00		-		0		 	0.00			- - -		0	==		- 0 - 0 - 1	0.00		-	
abitat Mean Fisher's	ış F	Power			Power Power			P-value P-value		Power Power			0.00 ower-50% ower-50%			alue alue		Power Power		·- 	Powe	r-50% r-50%		P-value P-value	
Stouffer's 60389C/50389 51091C/51091 52802C/50226	9 2	Power 0 0		-	- 0 - 0	 	-			0 0 0	 	 	0			- - -		0 0 0			0 0 0			-	
abitat Mear Fisher's Stouffer's	1	Power Power		-	Power	50% 50%		P-value P-valuc		Power Power			ower-50%		- P-V	ralue ralue		Power Power				r-50% r-50%		P-value P-value	
0389C/50389 1091C/51091 2802C/50226	13	0 0 0	 		- 0 - 0 - 0		-	 		0 0 0			0			-		0			0 0			-	
ibitat Mear Fisher's		Power		-	Powe	r-50%		P-value		Power		- 1	Power-50% Power-50%		- P-1	value value		Power Power				r-50% r-50%		P-value P-value	

x At least one site pair p-velue < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
y Only one site pair. Fucus Stipes (P) (a) Juvenile Fucus gardneri (P) (<= 2cm) Adult Fucus gardneri (P) (> 2cm) SE CV D P ЯE C яR CV D C O SE CVD 0 Site Pair Mvd N C SE N ------50389C/50389 1 -o ---0 0.00 -----51091C/51091 1 --0 - .. Ô 0.00 0.00 ---Ω --62802C/50226 1 0.00 0.00 0.00 Habitat Means Power-50% --- P-value ---P-value Power Power-50% Power P-value Power-50% P-value - - -Power-50% Fisher's Power Power P-value Power-50% P-value ---Power Power-50% Stouffer's Power ----------0 n 503890/50389 2 ------------0 51091C/51091 2 Œ --Ω 62802C/50226 2 Habitat Means Power-50% --- P-value ___ P-value Power Power-50% ---P-value Power Power-50% P-value - Power-50% Power Fisher's P-value Power-50% ---Power Power-50% Stouffer's Power ---0 --___ --Ð - -50389C/50389 3 ----___ 51091C/51091 3 ---___ --0 ---0 62802C/50226 3 Habitat Means P-value ---Power-50% Power --- P-value Power-50% P-value Power Power-50% P-value Power-50% Power Fisher's Power Power-50% --- P-value Danies Eng Dower

Dead Fucus plants or etipes 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.

1able 0-5.265. Page 1. December 15, 1994

Table C-5.285. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Coarse Textured. June 1991. Cleared September 1989. (Continued.)

		Wor	phologic	1 6	roup:	Coarse	Filamen	tous	Brown	16		My	eloph	ycus/S	cytosipho	on (A)	(a)			M	orphol	ogica:	1 Group	Fine F	ilament	ous Browns	8
lte Pair 1	_ Mvd	_		SE	N	0	SE	CA	D	P	N	С	SE	N	٥	SE	ÇV	D.	P	N	С	SE	N	0	SE	CA D	P
0389C/50389 1091C/51091 2802C/50226	1	0	 			0.00		-			0	 		- 0	0.00		_			0			0 0 1	0.00		-	
abitat Mean Fisher's Stouffer's	F	Power		-	Power			P-va P-va			Power Power			Powe	r-50% r-50%		P-va P-va			Power Power			Powe	er-50% er-50%		P-value P-value	
389C/50389 L091C/51091 2802C/50226) 2 L 2	0 0		-	- 0 - 0 - 0						0 0 0		-	- 0			-			0			0 0			- -	
abitat Mean Fisher's	1	Power		-	Powe:	 -50% -50%		P-va P-va			Power Power		-	₽owe	r-50% r-50%		P-va P-va			Power Power	-			er-50% er-50%		P-value P-value	
Stouffer's 389C/50389 091C/51091 802C/50226	9 3	Power 0 0 0		-	- 0 - 0		-				0 0 0	::		- 0 - 0 - 0						0 0 0			0 0		-		
abitat Mear	ns	Power		-		 r-50% r-50%		P-va P-va			Power Power				 er-50% er-50%		P-va P-va			Power Power				er-50%		P-value P-value	

:a) Genera not separated.

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

		Fine	File	mento	us Brown	IB (AB)	(0)													SE	N.	0	SE	CV 1	D P
te Pair Mvd	N	с в	E	N	0	SE	CV D	P	N	С	SE	N	٥	SE	ÇV	D	P	N	С	as	<u> </u>		D#1	Ų., ,	
389C/50389 1 091C/51091 1 802C/50226 1	0	 			0.00	-																			
	Power Power			Power Power			P-value P-value		Power Power			Power-			P-val			Power			Power-			?-valu ?-valu	
389C/50389 2 091C/51091 2 802C/50226 2	0			-		-	=																		
	Power Power			Power Power		 	P-value		Power Power			Power- Power-			P-val P-val			Power Power			Fower Power			P-valu P-valu	
389C/50389 3 091C/51091 3 802C/50226 3	0					-																			
bitat Means Fisher's	Power				-50%		P-value		Power			Power-			P-va P-va			Power Power			Power Power			P-valu P-valu	

(b) Elachista, Ectocarpus and Pilayella.

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

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

Table C-5.286. Algal Percent Cover. Rhodophyta. Cook Inlet/Kensi. 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	Rhodophy	ta				Mo	rpho	logical	Group:	Bladed 1	Reds				Giga	rtinace	ae Group	(P) (4	1)	
Site Pair Mvd 1	N	C E	BE	N	0	SE	CV D	P	N	С	SE	N	0	SE	ÇV D	P		С	SE	N	0	SE	CV D	P
50389C/50389 1 51091C/51091 1 62802C/50226 1	Ö			ŏ	0.00		-		0 0 0			0 0 1	0.00		-		· ŏ			0 0 1	0.00			
Habitat Means		-~			0.00								0.00				-			'	0.00	_		
	ower			Power Power			P-value P-value		Power Power				er-50% er-50%		P-value P-value		10401			Power Power	~50%		P-value P-value	
50389C/50389 2 (51091C/51091 2 (62802C/50226 2 ()			Ŏ			-		0			0 0 0		 	-		0			0 0		-		
Habitat Means		-~				~-											•					_		
	ower			Power Power			P-value P-value		Power Power				2r-50% 2r-50%		P-value P-value		- OWCT			Power Power			P-value P-value	
50389C/50389 3 (51091C/51091 3 (62802C/50226 3 (5			Õ			-		0			0 0 0			-		•			0 0		-		
Habitat Means						~-											-					_		
	ower ower			Power Power			P-value P-value		Power Power				er-50% er-50%		P-valuc P-value		10001			Power			P-value	

[4] Chorakius, Jridaes, Masterappus and Shedegloonum.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.</p>
y Direction of difference between habitat means is different than direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.

Pable C-5,286, Page 1, December 15, 1

			Palm	aria app.	(A)						Porph	yra sp.	A)			1	torphol	ogical	Group:	Coarse	Filame	ntous Red	ls
Site Pair M	vđ N	C i	BE N	0	SE	CA D	P	N	С	şe	N	0	8¥	CV D	P	N	С	SE	N	n	SE.	ת עיי	D
62802C/50226	1 0		U 1	0.00	~-			0				0.00				0			- 0 1	0.00			
Habitat Means				0.00	~ ~							0.00						-		0.00		_	
Fisher's Stouffer's	Power Power			er-50% er-50%		P-value P-value		Power Power				r-50% r-50%		P-value P-value		Power Power	~ -		Power Power			P-value P-value	
50389C/50389 : 51091C/51091 : 62802C/50226 :	2 0		0 0			-		0	 		Ö		 	-		0		-	·- 0 ·- 0			- -	
Habitat Means					~-														- 0				
Fisher's Stouffer's	Power Power			er-50% er-50%		P-value P-value		Power Power				r-50% r-50%		P-value P-value		Power Power	~-		Power Power	-50 %		P-value P-value	
50389C/50389 3 51091C/51091 3 62802C/50226 3	3 0	 	0 0		· •	-		0 0 0			Ö			-		0		-	- 0 - 0 - 0			-	
Habitat Means																		_	_				
Fisher's Stouffer's	Power Power			er-50% er-50%		P-value P-value		Power Power				≿-50% ≿-50%		P-value P-value		Power 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. 2 Only one site pair.

Table C-5.286. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenzi. Coarge Textured. June 1991. Cleared September 1989. (Continued.)

			Enđ	ocladi	a muricat	ta (P)					Gloi	opelt	is furcat	ia (A)				Mo	rpholo	gical G	roup: 8	accate	Reds	
aire nain Mud		c 1	77	¥	n	G E	ריעי ח	Р	N	C	SE	n	0	SE	CA D	P	Ŋ	¢	SE	N	0	SE	CV D	P
51091C/51091 1 62802C/50226 1	0		-		0.00	==	-		0			1	0.00		-		0		-	U 1	0.00		-	
	Power Power			Powe	0.00 r-50% r-50%		P-value P-value		Power Power		~-	Power	r-50% r-50%		P-value P-value		Power Power			Power	-50%		P-value P-value	
50389C/50389 2 51091C/51091 2 62802C/50226 2	0			- 0			-		0			Ö			-		0			- 0 0				
	Power Power			Powe	 r-50% r-50%		2-value 2-value		Power Power			Powe:	r-50% r-50%		P-value P-value		Power Power		_	Power Power			P-value P-value	
50389C/50389 3 51091C/51091 3 62802C/50226 3	0			- ŏ	 				0 0 0			Ŏ			-		0			0 0				
Habitat Means Fisher's Crouffor's	Power		-	Powe	- r-50% r-50%		P-value P-value		Power Power			Powe	r-50% r-50%		P-value P-value		Power Power		-	Power Power			P-value P-value	

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

Table 0-5.286. Page 1. December 15, 1994

Only one site pai			На	losa	ccion	glandif	orme (?	.)			Morpholo	gical G	roup:	Fine F	7ilament	ous Reds)		Po	lysipi	onia/Pt	erosipho	A) sinc) (a)	
ite Pair M	vd N	С	gı		N	0	9E	CV D	P	N	С	82	N	0	SE	CV D	P	N	c	SE	N	0	SE	CV D	P
0389C/50389 1091C/51091 2802C/50226	1 0			 	Ö	0.00	- - -			0 0 0	 	 	0 0 1	0.00	==	-		0		-	0 0 1	0.00	-		
abitat Means Fisher's Stouffer's	Powe:				Power Power			P-value P-value		Power			Power-			P-value P-value		Power Power			Power	0.00 c-50% c-50%		P-value P-value	
0389C/50389 1091C/51091 2802C/50226	2 0				Ö			 		0 0 0			0 0 0		 	-		0 0 0			0 0		-	 	
abitat Means Fisher's Stouffer's	Powe Powe				Power Power			P-value P-value		Power Power	 		Power- Power-			P-value P-value		Power Power		-		 -50% 50%			
389C/50389 091C/51091 802C/50226	3 0		-	 	Ö		-	 		0			0		==	-		0			0 0 0		-	 	
abitat Means Fisher's	Powe				Power Power			P-value P-value		Power Power			Power- Power-			P-value P-value		Power Power			Power	r-50% r-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. y Only one site pair.

Table C-5.286. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Coarse Textured. June 1991. Cleared September 1989. (Continued.)

		Моз	rpholo	ogica	al Gro	up: C	rustose	Reds					H	ildenb:	randia sp	. (P)					_							
Site Pair My	vd N	c	SE		N	0	SE	CV	D E		N	c	SE	N	0	SE	ĊV	D	P	N	С	SE	N	٥	SE	CV	D	P
50389C/50389 1 51091C/51091 1 62802C/50226 1	1 0			 	0 0 1	0.00			-	(0 0 0		-	- 0 - 0 - 1	0.00													
Habitat Means Fisher's	Power	 	-		Power-			P-valu P-valu			ower				0.00 er-50% er-50%		P-va P-va		 - 	Power Power			Power Power			P-valu P-valu		
Stouffer's 50389C/50389 2 51091C/51091 2 62802C/50226 2	20				0	 	- - -	- -		(0 0		-	- 0 - 0 - 0	 		-											
Habitat Means Fisher's Stouffer's	Power Power				Power-			P-val: P-val:			ower	 			 2x-50% 2x-50%		P-va P-va			Power Power			Power Power			P-valı P-valı		
50389C/50389 3 51091C/51091 3 62802C/50226 3	3 0	 			0 0 0		-				0 0 0		-	·- 0 ·- 0			-											
Habitat Means Fisher's Stouffer's	Power Power				Power- Power-			P-val: P-val:			ower				 er-50% er-50%		P-va P-va			Power Power			Power			P-valı P-valı		

Table C-5.286. Page 5. December 15, 1994

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

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.

.

	Balanomorpha		Lottiida	e	Mytilus
Site Pair Mvd N	C SE N O SE CV	P N	C SE N O	SE CV D P	N C SE N O SE CV D P
50389C/50389 1 0 51091C/51091 1 0 62802C/50226 1 0	0	0 0 0	0 0 0 1 0.0		- 0 0 1 0.00
Habitat Means	2.50		0.0	0	0.00
Fisher's Power Stouffer's Power	Power-50% P-valu			P-value	B E06
50389C/50389 2 0 51091C/51091 2 0 62802C/50226 2 0	0	0 0	0 0		- 0 0
Habitat Means					**
Fisher's Power Stouffer's Power	Power-50% P-valu			P-value P-value	500
50389C/50389 3 0 51091C/51091 3 0 62802C/50226 3 0	0	0 0	0 0 0		
Habitat Means					
Fisher's Power	Power-50% P-valu			P-value P-value	Devices 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 wite pair.

Table C-5.287. Page 1. December 15, 1994

			Li	ttorinida																				
ite Dair N	N Pure	с я	P. N	n	SE	CY D	P	N	C	SE	N	Ç	şe	cv	D	P	N	c	SE	N	0	SE	CA I	D :
abitat Means	s			0.00	-	-																		
Fisher's Stouffer's	Power Power			er-50% er-50%		P-value P-value		Power Power			Power-			P-val P-val			Power Power			Power-			P-value P-value	
0389C/50389 1091C/51091 2802C/50226	2 0		0 0 0		-																			
abitat Means Fisher's Stouffer's	Power			 er-50% er-50%		P-value P-value		Power Power			Power- Power-						Power Power			Power Power			P-value P-value	
389C/50389 091C/51091 802C/50226	3 0		0 0		-																			
abitat Means Fisher's Stouffer's	Power			 er-50% er-50%		P-value P-value		Power Power			Power-			P-val			Power Power			Power			P-valu P-valu	

x At least one site pair p value < 0.100)n opposite direction of 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. Algal Percent Cover. Substrates. Cook Inlet/Renai. 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.

	_				Rock								Mud								Sand			
Site Pair My	K Dv	С	SE	N	0	SE	CA D	2	N	С	SE	N	0	SE.	CV D	P	N	С	SE	N	0	SE	ĆV D	P
50389C/50389 51091C/51091 62802C/50226	0			0 0 1	97.50		-		0 0 0	 		0 0 1	0.00	 			0 0			- ŏ	0.00		-	
Habitat Means					97.50						~-		0.00							-	0.00			
Fisher's Stouffer's	Power Power				er-50% er-50%		P-value P-value		Power Power				r-50% r-50%		P-value P-value		Power			Power			P-value P-value	
50389C/50389 2 51091C/51091 2 62802C/50226 2	0			0 0 0			-		0						-		0			- 0			-	
Habitat Means						~ -							~-							-				
Fisher's Stouffer's	Power Power				er-50% er-50%		P-value P-value		Power Power				r-50% r-50%		-value		Power Power			Power			P-value P-value	
50389C/50389 3 51091C/51091 3 62802C/50226 3	0			0 0			-		0 0 0			0			- -		0						-	
Habitat Means													~-				_							
Fisher's Stouffer's	Power Power				er-30% er-50%		P-value P-value		Power Power				r-50% r-50%		rvalue rvalue		Power Power			Power Power			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 habits: mwans is different than direction of overall reass. I Unly one site pair.

Table C 5.288. Page 1. December 15, 1994

	_	_			\$he11	Fragment	t s					Zo	stera	/Phyllosp	adix						San	d and Mu	1		
Site Pair My	vđ N	· · ·	2	SE	Ŋ	0	SE	CA D	P	N	C	SE	N	٥	SE	CV D	P	N	c	SE	N	0	SE	CV D	P
50389C/50389 1 51091C/51091 1 62802C/50226 1	1 0					0.00				0	 	- 		0.00		-		0 0			0 0 1	 0.00		-	
Habitat Means						0.00								0.00								0.00			
Fisher's Stouffer's		wer wer			Power Power			P-value P-value		Power Power				r-50% r-50%		P-value		Power				r-50% r-50%		P-value P-value	
50389C/50389 2 51091C/51091 2 62802C/50226 2	2 0		 		Ö			-		0 0	 		ō		 	-		0			0 0			-	
Habitat Means							~-											-							
Fisher's Stouffer's		wer			Power-			P-value P-value		Power Power				r-50% r-50%		P-value P-value		Power Power				c-50% c-50%		P-value P-value	
50389C/50389 3 51091C/51091 3 62802C/50226 3	3 0				0			-		0 0 0			ŏ			-		0	 		0 0			-	
Habitat Means																									
Fisher's Stouffer's		wer wer			Power Power			P-value P-value		Power Power	- 			r-50% r-50%		-value -value		Power Power				c-50% c-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. 2 Only one site pair.

			ī	otal	Substra	te																		_
ite Pair Mvd	N	C S	Ė	И	٥	SE	CV D	P	N	С	SE	n	0	SE	CA I	D P	N	С	 SE	N	0	SE	CV	D 1
02026120202 +	0 0 0	 		0 0 1	97.50	-	-																	
	Power Power			Power Power			P-value P-value		Power Power			Power-			P-value P-value		Power Power			Power-			P-valu P-valu	
0389C/50389 2 1091C/51091 2 2802C/50226 2	0			0		-																		
	Power Power			Power Power	-50% -50%		P-value		Power Power			Power Power			P-valu P-valu		Powe: Powe			Power- Power-			P-valu P-valu	
	0			0		-																		
	Power				 r-50% r-50%		P-value P-value		Power Power			Power Power			P-valu P-valu		Powe Powe			Power- Power-			P-val: P-val:	

x At least one site pair p-value < 0.130 in opposite direction of 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. Algal Percent Cover. Totals and Seasonal Groups. 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.

			Alge	al Dive	raity In	đex (a)					λlg	al Tax	ca Richne	ns (þ)						Tot	al Algae			
Site Pair Mvd	N	c	SE	N	0	SE	CA D	P	N	c .	SE	N	0	SE	CA D	P	N	c	SE	N	0	SE	CV D	Ъ
C15.1C/C15.1 1 50981C/50221 1 50981C/50981 1	0 0		-	- 0 - 1 - 1	0.00		-		0 0 0			- 1	0.00				0			- i - 1	0.00			
	Power Power		-		0.00 r-50% r-50%		P-value P-value		Power Power			Powe	0.00 er-50% er-50%		P-value P-value		Power Power			Powe:			P-value P-value	
C15.1C/C15.1 2 50981C/50221 2 50981C/50981 2	0		-	- 0 - 0	0.00				0 0 0			- 0	0.00		-		0	 	-	- 0	0.00		-	
	Power Power		-		0.00 2-50% 2-50%		P-value P-value		Power Power			Powe	0.00 25-50% 25-50%		P-value P-value		Power Power		- 	Powe:	0.00 r-50% r-50%		P-value P-value	
C15.1C/C15.1 3 50981C/50221 3 50981C/50981 3	0 0 0	==	-	- 0 - 0		-			0 0			- 0 - 0			-		0 0 0		-	- 0			-	
	Power Power				 er-50% er-50%		P-value P-value		Power Power			Powe	er-50% er-50%		P-value P-value		Power Power			Powe	r-50 % r-50 %		P-value 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.
y Only one site pair.

Table C 5.285, Page 1, December 15, 1994

			Total	l Invertebr	ates						Rock						Perenn	ials (P	?}		
Site Pair Mvd	N	C S	E N	0	SE	CV D	P	N	c	SE	N O	se cv d	P	N	C	SE	N	0	SE	CA D	P
	0 0 0	 	0 1 1	0.00				0 0			0 100.00 1 100.00 1 100.00	=======================================		0			1	0.00		-	
	Power Power			0.00 wer-50% wer-50%		P-value P-value		Power Power			ower-50% ower-50%	P-value P-value		Power			Power-	50%		-value -value	
	0		0 0 1	 0.00		= =		0 0 0	 		0 0 1 100.00	 		0			- 0	0.00		-	
	Power Power			0.00 wer-50%		- P-value P-value		Power Power			100.00 ower-50% ower-50%	P-value P-value					Power- Power-			-value -value	
C15.1C/C15.1 3 50981C/50221 3	0 0 0		0 0		-			0			0 0 0			0 0 0			- 0				
	Power Power			 ower-50% ower-50%		P-value P-value		Power Power			 cower-50% cower-50%	P-value					Power-			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-5.289. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Estuarine. June 1991. Cleared September 1989. (Continued.)

			Ann	uals (A)						Ephe	merals (A	E)											
41. 4. 14. 14		nn	¥T	^	OP	ת זיי	Đ	N	r 8	er n	n	ЯR	מ עיי	P	N	C	ŝe	n	Q	SE	ÇV	D	P
50981C/50221 1 0 50981C/50981 1 0			1 1	0.00		-		0		1 1	0.00		-										
	MOT		Power	0.00 c-50% c-50%		P-value P-value		Power			0.00 er-50% er-50%		P-value P-value		Power Power			Power Power			P-valu P-valu		
C15.1C/C15.1 2 0 50981C/50221 2 0 50981C/50981 2 0	 		0 0 1	0.00				0		0 0 1	0.00		-										
	170-			0.00 r-50% r-50%		P-value P-value	 	Power Power			0.00 er-50% er-50%		P-value P-value		Power Power			Power Power	-50% -50%		P-valu P-valu		
C15.1C/C15.1 3 0 50981C/50221 3 0 50981C/50981 3 0		-	0 0 0					0 0 0		0 0 0			<u>-</u>										
	wer wer			 r-50% r-50%		P-value P-value		Power Power			/er-50% /er-50%	===	P-value P-value		Power Power				c-50% c-50%		P-valu P-valu		

Table C-5.289. Page 3. December 15, 1994

x At least one site pair p-value < 0.100 in opposite direction of 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; 0 = control = oiled; P = probability value; dashes = insufficient data.

				Total	Chloroph;	yta					Mort	pholo	gical (Foup: B	laded G	enser				B 1	aded G	reens (A	(a)		
Site Pair Myd	N	С	SE	N	0	SE	CV	a d	P	N	С	Se	N	0	SE	CV D	P	N	c	SE	N	σ	SE	CV D	P
C15.1C/C15.1 1 50981C/50221 1 50981C/50981 1	0			- ĭ	0.00	-				0 0			0 1 1	0.00				0 0 0		-	- 0 - 1 - 1	0.00		-	
Habitat Means				-	0.00	-	-							0.00						-	-	0.00			
	Power Power			Power			P-va P-va			Power Power				r-50% r-50%		P-value P-value		Power Power				r-50% r-50%		P-value P-value	
C15.1C/C15.1 2 50981C/50221 2 50981C/50981 2	0			- 0	0.00	-				0		,	- 0 0	0.00				0 0 0		-	- 0 - 0 - 1	0.00		-	
Habitat Means					0.00	-	-							0.00						-	-	0.00			
	Power Power			Power Power			P-va P-va			Power Power				r-50% r-50%		P-value P-value		Power Power				r-50%		P-value P-value	
C15.1C/C15.1 3 50981C/50221 3 50981C/50981 3	0			. 0		-				0 0 0			- 0 - 0	 		-		0		-	- 0 - 0 - 0			-	
Habitat Means						-	-						-							-	-				
	Power Power			Power Power			P-va P-va			Power Power				r-50% r-50%		P-value P-value		Power Power				r-50% r-50%		P-value P-value	

(a) Normannia, Monogroms, Jue and clustia. A 1 least one site pair p-w9jue c 0.100 in opposite direction of overall tests. Prescrion of difference Detween habitat means is different than direction of overall tests. 2 Chiy one site pair.

Table C-5.290, Page 1. December 15, 1994

		Morphologi	cal G	roup:	Fine Fi	lamento	ous Green	9	_		Cla	dophora sp.	(AE)						Ulothi	ix ap. (AE)		
Site Pair Mvd	N	C s	SE	N	0	SE	CV D	P	N	C ,	SE	N O	SE	ÇV D	P	N	C	SE	N	0	SE	CA D	P
C15.1C/C15.1 1 50981C/50221 1 50981C/50981 1	0			0 1 1	0.00		-		0			0.00		 -		0		-	- 0	0.00		-	
Habitat Means					0.00							0.00						-	-	0.00			
Fisher's Stouffer's	Power Power			Power Power			P-value P-value		Power Power			ower-50%		-valuc -value		Power Power				r-50% r-50%		P-value P-value	
C15.1C/C15.1 2 50981C/50221 2 50981C/50981 2	0			0 0 1	0.00		-		0 0 0			0 0 1 0.00		 -		0		-	- 0 - 0 - 1	0.00		-	
Habitat Means					0.00							0.00						-	-	0.00			
Fisher's Stouffer's	Power Power			Power Power			P-value P-value		Power Power			ower-50% ower-50%		-value -value		Power Power				r-50% r-50%		P-value P-value	
C15.1C/C15.1 3 50981C/50221 3 50981C/50981 3	0			0			-		0 0 0			0 0 0		 -		0 0 0		-	- 0 - 0			-	
Habitat Means																		-	-				
Fisher's Stouffer's	Power Power			Power-			P-value P-value		Power Power			ower-50% ower-50%		-value -value		Power Power				r-50% r-50%		P-value P-value	

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

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

				Uro	spora	sp. (1	AE)			Мо	rphologica	1 Group:	Tubular	and Saco	ate Gree	ns		1	Bliding	ia/Ent	eromorpha	(AE)	(a.)	
Site Pair Mvd		С	SE	N	r	0	SE	CV D	P	N	c i	BE N	0	SE	CV D	P	N	С	SE	N	0	SE	CA D	P
C15.1C/C15.1 1 50981C/50221 1 50981C/50981 1	0			0 1 1		0.00		_		0 0 0		0 1 1	0.00 0.00	==	-		0		-	- 1	0.00		-	
Habitat Means Fisher's Stouffer's	Power Power		-	Po	wer-	50%		P-value P-value		Power Power			er-50% er-50%		-value -value		Power Power			Power	r-50% r-50%		P-value P-value	
015.1C/C15.1 2 50981C/50221 2 50981C/50981 2	0	 		0 0		0.00		-		0 0 0		0 0 1	0.00		-		0		-	- 0 - 0 - 1	0.00	==	-	
Habitat Means Fisher's Stouffer's	Power Power		-		wer-			P-value		Power Power			0.00 er-50% er-50%		P-value P-value		Power Power			Powe	0.00 r-50% r-50%		P-value P-value	
215.1C/C15.1 3 50981C/50221 3 50981C/50981 3	0			()			-		0 0 0		0 0	==				0		-	- 0 - 0 - 0			-	
Habitat Means Fisher's	Power		-		ower-		===	P-value P-value		Power Power			 ver-50% ver-50%		P-value P-value		Power Power				 50% 50%		P-value P-value	

Table C 5.290. Page 3. December 15. 1994

⁽a) General not separated. x At least one site pair p-value < 0.100 in opposite direction of 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. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenzi. Estuarine. June 1991. Cleared September 1989. Table U-9.491. Addal request cover. Findeophyce. Cook intel, mental nectuation, outled 1993.

Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N : sample size; C control mean; O oiled mean; CV = coefficient of variation; Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N : sample size; C SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes insufficient data.

						Phaeophy					Mor	pholog	rical G	roup: B	laded B	rowns				Tot	al Fuc	us gardne	ri (P)		
ite Pair	Mvd 1	N	c :	ge.	N	O	SE	CV D	P	N	С	SE	N	0	SE	CA D	P	N	С	SE	N	0	SE	ĊA D	P
15.1C/C15.1 0981C/50221 0981C/50981	11 (0 0	 	-	- 0 - 1 - 1	0.00		-		0 0		-	- 0 - 1 - 1	0.00		<u>-</u>		0		-	0 1 1	0.00		-	
abitat Mear Fisher's Stouffer's	P	ower		-		0.00 r-50% r-50%		P-value P-value		Power Power				0.00 r-50% r-50%		P-value P-value		Power Power		-	Powe	r-50% r-50%		P-value P-value	
5.1C/C15. 981C/5022 981C/5098	1 2	0		-	- 0 - 0 - 1	0.00				0 0 0		-	- 0 - 0 - 1	0.00		: :		0		-	0 0 1	0.00		· -	
abitat Mea Fisher's Stouffer'	ns P	ower		-		0.00 r-50% r-50%		P-value P-value		Power Power			Powe	0.00 er-50% er-50%		P-value P-value		Power Power		-	Powe	er-50%		P-value P-value	
5.1C/C15. 981C/5022 981C/5098	1 3	0		-	- 0 - 0		- - -	- -		0 0 0	 		0 0			: :		0			0 0				
abitat Mea Fisher's	P	ower		-		 r-50% r 50#		P-value Passalue		Power Power	 	-		 er-50% er-50%		P-value P-value		Power Power	-		Powe	er-50% er-50%		P-value P-value	

At least one site pair p-value < 0.100 in opposite direction of overall tests. Direction of difference between babitat Reans is different than direction of overall tests. Only one site pair.

Fucus Stipes (P) (a) Juvenile Fucus gardneri (P) (<= 2cm) Adult Fucus gardneri (P) (> 2cm) SE CV D Þ 0 c gr ĊV gr C 0 CV D P N 0 SE N Site Pair Mvd N c --0.00 -----C15,1C/C15.1 0.00 0.00 ---0 0.00 --50981C/50221 1 --Û --0.00 ---1 0.00 -------1 50981C/50981 1 _ -0.00 0.00 0.00 Habitat Means Power-50% --- P-value ___ P-value Power Power-50% Power Power-50% --- P-value Power-50% P-value ---Fisher's Power ---Power-50% P-value Power - - **-**Power Power-50% ---P-value Stouffer's Power ---. - -0 n -----_ _ 0 --0 --__ ___ --0.00 -----0 509810/50221 2 0 --0.00 ---0 --0.00 --50981C/50981 2 D 0.00 0.00 0.00 Habitat Means --- 2-value Power-50% P-value Power Power-50% --- P-value Power ---Power-50% Power-50% ---P-value Fisher's Power Power-50% P-value ---POWER Power ---Power-50% P-value Stouffer's Power 0 -------C15.1C/C15.1 3 --0 ------_ + -n 50981C/50221 3 -----0 0 --0 50981C/50981 3 0 Habitat Means --- P-value Power Power-50% Power-50% --- P-value --- P-value ---Power ---Power-50% --- P-value ---Power-50% Fisher's Power Power Power-50% --- P-value P-value Power Power-50%

(a) Dead Fucus plants or stipes without blades. x At least one site pair p-value < 0.130 in opposite direction of overall tests. y Direction of difference between habitat meens is different than direction of overall tests. y only one site pair.

Table C 5.291, Page 2. December 15, 1994

Table C-5.291. Page 1. December 15, 1994

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

						/		(AE) (1				Mo	rpholog	ical (Group:	Coarse 1	rilament	ous Brow	ns		3	iyelop	ycus/8	Scytosiph	on (A)	(a)	
n.:	Hvd :	M	c	SE	Onla,		0	SE SE	cv	ם	P	N	С	SE	N	•	SE	GA D	P	N	С	SE	N	0	SE	CV D	P
ite Pair 1 15.1C/C15.1 0981C/50221 0981C/50981	1	0 0			- 0 - 1		0.00					0 0		-	- 0 - 1 - 1	0.00 0.00	 2-	-		0			- 0 - 1 - 1	0.00	==	-	
bitat Mean Fisher's	.s P	ower				wer-50			P-va P-va			Power Power		-		0.00 r-50% r-50%		P-value P-value		Power Power		-		0.00 r-50% r-50%		P-value P-value	
Stouffer's 15.10/C15.1 1981C/50221 1981C/50981	2 2	ower 0 0			0 0 1		 0.00		. <u>-</u>			0		-	- 0 0 1	0.00	 	-		0 0			0 0	0.00			
bitat Mean Fisher's Stouffer's	ıs P	Power		-		wer-5			P-va P-va			Power Power		-		0.00 x-50% x-50%		P-valuė P-value		Power Power		_	Powe	er-50% er-50%		P-value P-value	
5.1C/C15.1 981C/50221 981C/50981	. 3 . 3	0			0 0		 		 			0 0			0 0		==			0 0			0 0				
abitat Mean Fisher's Stouffer's	Ē	Power		-		wer-5 wer-5			- ₽-va Þ-va			Power Power		-		er-50%		P-value P-value		Power Power			Powe	er-50% er-50%		P-value P-value	

(b) Genera not separated.

(a) Camera not separated. x At least one alterpair p value < 0.100 in opposite direction of overall tests. y Direction of difference between habitat means is different than direction of overall tests. 2 only one site pair.

Table C 5.291, Page 3, December 15, 1994

	Mo	rphologi	lca1	Group	: Fi	ne Fi	lament	ous Brow	ne en		F:	ine F	ilament	ous Brown	.s (XE)	(15)									_	_
			ct to	147			27	רע ח		报	C	SE	n	0	SE	CA D	P	N	С	SE	N	0	SE	CΛ	D	P
0981C/50221 1 (0981C/50981 1 (- <u>1</u> - <u>1</u>		.00		<u> </u>		Ŏ O	:-		<u>1</u> <u>1</u>	0.00												
abitat Means			-	-		.00	-			_			 Dozz	0.00 er-50%		P-valué		Power	_		Power	-50%		P-valu		
	ower ower				er-509			P-value		Power				er-50%		P-value		Power	-		Power	-50%		P-valu	е	
15.1C/C15.1 2 (0981C/50221 2 (0981C/50981 2 (0		-	0 0 1	0		-			0 0 0			0 0 1	0.00		-										
abitat Means			-		0	.00	-	-						0.00				_			David	=09		P-valu		
	ower				ver-509			P-value P-value		Power Power				er-50% er-50%		P-value P-value		Power			Power Power			P-valu		
15.1C/C15.1 3	0	 	-	0 0 0			-			0 0			0 0			-										
abitat Means							-	-							-						Power	508		P-valu		
	ower				er-50			P-value P-value		Power Power				er-50% er-50%		P-value P-value		Power Power			Power Power			_		

(b) Elachista, Ectotarpus and Filayella.

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

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; o = control = oiled; P = probability value; dashes insufficient data.

	Tot											Mo	orpholo	ogica1	Group: 1	Bladed 1	Reds					Palma	ria spp.	(A)		
#1 P-1- 16	vd N		SB		al Rhodor	элуса	E	CV	Ď	P	N	c	SE	N	0	SE	ÇA D	P	N	с	SE	Ŋ	D	ge	CV D	P
Site Pair M C15.1C/C15.1 50981C/50221 50981C/50981	1 0	==		0 1) L 0.00	0	 	-			0 0 0	- - 	-	- 0 - 1 - 1	0.00 0.00		-		0			0 1 	0.00			
Habitat Means Fisher's Stouffer's	Powe Powe				0.00 ower-50% ower-50%	-		P-val P-val			Power Power		-	Powe	er-50% er-50%		P-value P-value		Power		- -		er-50% er-50%		P-value P-value	
C15.1C/C15.1 50981C/50221 50981C/50981	2 0			(0 0 1 0.0	-					0			- 0 - 0 - 1	0.00		<u>-</u>		0			0 1	0.00		-	
Habitat Means Fisher's Stouffer's	Powe Powe				0.0 ower-50% ower-50%	-		P-val P-val			Power Power				0.00 er-50% er-50%		P-value P-value		Power Power			Pow Pow	er-50%		P-value P-value	
C15.1C/C15.1 50981C/50221 50981C/50981	3 0	 		 	0 -	-	 				0	 		0 0		- - -	-		0			0 0			. <u>-</u>	
Habitat Means Fisher's			 		ower-50% nwer-50%			P-val P-val			Power Power				er-50% er-50%	 	P-value P-value		Fower Power				er-50% er-50%		P-value P-value	

 ${\bf x}$ At least one site pair p-walue < 0.100 in opposite direction of overall tests. Y Direction of difference between habitat means is different than direction of overall tests. Unity one site pair.

Table C 5.292. Page 1. December 15, 1994

Only one site					/				3	torpholog	rical Gro	up: Coar	ge Fil	amen	tous Red	9			Cr	yptosip	honia woo	đii (A)			
					Porph	yra sp. (SE	CV D	Р	м	С		и о	SI		CA D	P	N	C	ŜE	N	0	8E	CV D	P
	Mvd		С	SE				_		0			0			-		0			0	0.00			
5.1C/C15. 981C/5022	1 1	0			0 1 1	0.00				0			1 0.00					0			1	0.00			
981C/5098		0			1	0.00				-			0.0)								0.00			
Fisher's		Power Power		-	Powe	r-50% r-50%		P-value P-value		Power Power			ower-50% ower-50%			P-value P-value		Power Power				er-50%		P-value P-value	
Stouffer' 5.1C/Cl5. 1981C/5022 1981C/5098	1 2	0			0 0 1	 0.00				0 0 0			0 - 0 - 1 0.0			-		0 0 0			0 0 1	0.00		-	
bitat Mea		v				0.00	-	-					0.0	0				_			Descr	0.00 er-50%		P-value	
Fisher's Stouffer'		Power Power				r-50% r-50%		P-value P-value		Power Power			ower-50%			P-value P-value		Power			Pow	er-50%		P-value	
15.1C/C15. 0981C/5022 0981C/5098	.1 3	0			0 0 0		-	 		0 0 0			0 - 0 - 0 -	-		-		0			0 0				
abitat Mea		•					-	-					-	-								 er-50%		P-value	
Fisher's		Power				er-50% -r-50%		P~value P-value		Power Power			Power-50% Power-50%			P-value P-value		Power Power				er-50%		P-value	

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

Table C-5.292. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Estuarine. June 1991. Cleared September 1989. (Continued.)

				610	ionelt	is furca	ta (A)				Ne	orbodo	mela/	/Rhodome1	a (P) (a)					Ođ	onthal:	ia flocco	sa (P)		
ite Pair	Mvd.	N .	c	812	N	0	SE	CV	D P	N	c	SE	Ŋ	0	SE	CV	D	P	N	С	SE	N	٥	8£	GA D	P
15.1C/C15.1 0981C/50221 0981C/50981	l 1 l 1	0 0				0.00	-	 		- 0	 	 	0	0.00		-			0			0 1 1	0.00 0.00 0.00		-	
bitat Mear	I	Power Power			Powe	0.00 r-50% r-50%		P-val P-val						0.00 r-50% r-50%		P-val P-val			Power Power			Powe	er-50% er-50%		P-value P-value	
Stouffer's 15.1C/C15.1 0981C/50221 0981C/50981	1 2	0	 	-	- 0 - 0 - 1	0.00	-	 - :	 	,		 	0 0 1	0.00					0 0 0			0 0	0.00		-	
abitat Mean Fisher's	ns	Power				0.00 r-50% r-50%		P-val		- Power				0.00 r-50% r-50%		P-va P-va			Power Power		-		0.00 er-50% er-50%		P-value P-value	
Stouffer's 15.1C/C15.1 1981C/5022 1981C/5098	1 3	Power 0 0		-	- 0 - 0 - 0	 	-	 	-	- 0 0			0			-			0 0			0 0			-	
abitat Mean	ns	Power				 er-50% er-50%		P-val		Power				 r-50% r-50%		P-va P-va			Power Power		-		er-50% er-50%		P-value P-value	

(a) Canera not separated.

 κ At least one site pair p-value < 0.100 in opposite direction of 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 3, December 15, 1994 Morphological Group: Fine Filamentous Reds Halosaccion spp. (A) Morphological Group: Saccate Reds SE CV D P С SE n CV D P SE C SE CV D P N SE Λ Site Pair Mvd N С N 0.00 ---C15.1C/C15.1 1 0 --0.00 _ -0.00 _ _ n 0.00 --Ö ----50981C/50221 1 0.00 ___ 0.00 __ --50981C/50981 1 --0.00 0.00 0.00 Habitat Means Power-50% --- P-value ___ Power-50% P-value Power Power Power-50% ___ P=vra1:1e Power-50% P-value ---Fisher's Power Power-50% P-value Power ------Power Power-50% --- P-value Stouffer's Power ---0 ۵ - ----0 --C15.1C/C15.1 2 ---------0 ---- ---0.00 -----0 50981C/50221 2 __ 0.00 -----0.00 --50981C/50981 2 0 0.00 0.00 0.00 Habitat Means --- P-value Power-50% ---P-value POWER Power-50% Power ------ P-value ---Power-50% Power-50% P-value Fisher's Power Power-50% --- P-value ---Power ---Power Power-50% --- P-value Stouffer's Power --n ---------C15.1C/C15.1 3 ---0 -----n ---------50981C/50221 3 --0 -n 50981C/50981 3 0 Habitat Means Power-50% --- P-value --- P-value Power Power-50% Power ------ P-value Power-50% Power-50% --- P-velue Fisher's Power ------ P-value ---Power Power-50% Power ------ P-va_ue Power-50% Stouffer's Power

x At least one site pair p-value < D.100 in opposite direction of overall tests.</p>
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.292. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Estuarine. June 1991. Cleared September 1989. (Continued.)

	Polysiphonia/Pterosiphor						onia (A	(a)				Morp	holog:	ical G	Froup: C	rustose	Reds				I	Hildenbr	andia sp	. (P)		
Site Pair M	tvd N	(С	Sz	N	0	SE	CV	D	P	N	c	SE	N	0	SE	CA D	P	N	С	SE	N	0	SE	CV D	P
C15.1C/C15.1 50981C/50221 50981C/50981	1 0		==		-	0.00					0	 		1	0.00	 	-		0			0 1 1	0.00 0.00			
Habitat Means	3			-	-	0.00	-	-							0.00								0.00			
Fisher's Stouffer's	Powe					er-50% er-50%		P-va P-va			Power Power				r-50% r-50%		P-value P-value		Power Power				r-50% r-50%		P-value P-value	
C15.1C/C15.1 50981C/50221 50981C/50981	2 0		 			0.00					0 0 0			ŏ	0.00	 	-		0 0 0			0 0 1	0.00	 	-	
Habitat Means	3			-	-	0.00	-	-							0.00								0.00			
Fisher's Stouffer's	Powe					er-50% er-50%		P-va P-va			Power Power				r-50% r-50%		P-value P-value		Power Power				r-50% r-50%		P-value P-value	
C15.1C/C15.1 50981C/50221 50981C/50981	3 0		 	-	- 0 - 0 - 0	 					0	 		ž	 		-		0 0	 		0 0 0			-	
Habitat Means	3			-	-		-	-																		
Fisher's Stouffer's	Powe					er-50% er-50%		P-va P-va			Power Power				r-50% r-50%		P-value P-value		Power Power				r-50% r-50%		P-value P-value	

la: Genera not separated.

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

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Table C-5.292. Page 5. December 15, 1994

Table C-5.293. Algal Percent Cover. Invertebrates. Cook Inlet/Kenai. Estuarine. June 1991. Cleared September 1989.

Results of statistical differences between means of control and ciled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; CV coefficient of variation; SE = standard error; D = direction of difference; · = control > ciled; - = control < ciled; P = probability value; dashes = insufficient data.

	Balanomox										Lottiidae							My	ytilus			
Sire Pair Myd	N N	c s	e n	0	ŞE	CV D	P	N	C E	SE	n o	SE	CA D	P	N	с	SE	N	0	SE	CA D	P
50981C/50221 1 50981C/50981 1	0		1 1	0.00 0.00				0			1 0.00	-	<u> </u>		Ö			: <u>:</u>	0.00			
Habitat Means Fisher's Stouffer's	Power Power			0.00 er-50% er-50%		P-value P-value		Power	 		0.00 Power-50% Power-50%		P-value P-value		Power Power		-	Power Power			P-value P-value	
C15.1C/C15.1 2 50981C/50221 2 50981C/50981 2	0		0 0 1	0.00		-		0 0			0 0 1 0.00	-	 		0 0 0		-	- 0 - 0 - 1	0.00		-	
Habitat Means Fisher's Stouffer's	Power Power			0.00 er-50% er-50%		P-value P-value		Power Power			0.00 Power-50% Power-50%		P-value P-value		Power Power			Power Power	0.00 -50% -50%		P-value P-value	
C15.1C/C15.1 3 50981C/50221 3 50981C/50981 3	0		0 0 0					0			0 0	-			0 0 0		-	- 0 - 0				
Habitat Means Fisher's Stouffer's	Power Power	 		 er-50% er-50%		P-value P-value		Power Power			Power-50% Power-50%		P-value P-value		Power Power		-		c-50% c-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 habitst means is different than direction of overall tests. To Chiy one write pair.

Table C 5.293. Page 1. December 15, 1994

				Lit	torinidae	ı																			
Site Pair Myd	N	С	SE	N	0	SE	CV B	P	N	С	SE	N	0	Se	CA D	P	N	¢	SE	N	0	SE	CA I	P	_
C15.1C/C15.1 1 50981C/50221 1 50981C/50981 1	0		-	- 0 - 1 - 1	0.00																				
Habitat Means			-	-	0.00	-	-																		
	Power Power				r-50% r-50%		P-value P-value		Power Power			Power- Power-			P-value P-value		Power Power			Power Power					
C15.1C/C15.1 2 50981C/50221 2 50981C/50981 2	0		-	- 0 0 1	0.00	-	 																		
Habitat Means			-		0.00	-	-																		
	Power Power				er-50% er-50%		P-value P-value		Power Power			Power- Power-			P-value P-value		Power Power			Power Power			P-value P-value		
C15.1C/C15.1 3 50981C/50221 3 50981C/50981 3	0		-	0 0		-	 																		
Habitat Means			-			-	-																		
Fisher's Stouffer's	Power				er-50% er-50%		P-value P-value		Power Power			Power- Power-			P-value P-value		Power Power			Power Power			P-valu P-valu		

x At least one site pair p-value < 0.100 in opposite direction of 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. Algal Percent Cover. Substrates. Cook Inlet/Kenai. Estuarine. June 1991. Cleared September 1989.

Results of statistical differences between means of control and cilcd site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = colled mean; CV coefficient of variation; SE = standard error; D = direction of difference; + = control > colled; - = control < colled; c = control = colled; P = probability value; dashes insufficient data.

					Rock				_				Mud								Sand			
Site Pair Mvd	N	C s	E	N	٥	SE	cv p	P	N	С	SE	N	0	SE	cv p	P	N	С	SE	N	0	SE	CV D	P
C15.1C/C15.1 1 50981C/50221 1 50981C/50981 1	0	 		0 1 1	100.00				0 0 0			· 1	0.00 0.00	 	-		0 0 0	 		0 1 1	0.00			
Habitat Means					100.00								0.00								0.00			
	ower Power				r-50% r-50%		P-value P-value		Power				r-50% r-50%		P-value P-value		Power Power				er-50% er-50%		P-value P-value	
C15.1C/C15.1 2 50981C/50221 2 50981C/50981 2	0	 		0	100.00		-		0 0 0	 			 0.00	 			0			0 0 1	 0.00		-	
Habitat Means					100.00							-	0.00								0.00			
	ower,				c-50% c-50%		P-value P-value		Power Power				r-50% r-50%		P-value P-value		Power Power				er-50% er-50%		P-value P-value	
	0 0 0		 	0 0 0	 		-		0 0 0	 		· ŏ	 				0 0 0			0 0	 	 	-	
Habitat Means																								
	ower ower				c-50% c-50%		P-value P-value		Power Power	-~-			r-50% r-50%		P-value P-value		Power Power				er-50% er-50%		P-value P-value	

X At least one site pair p-value < 0.100 in opposite direction of overall tests.</p>
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. Pecember 15, 1994

	Shell Frag				Fragment	<u></u>			_		Fila	amento	ous Diat	Ome					7	ostera	/Phyllos	padix		
Site Pair Mvd N		C £	E	N	0	SE	ÇV D	P	N	С	SE	N	0	SE	CV D	P	N	С	SE	N	0	SE	CV D	P
C15.1C/C15.1 1 0 50981C/50221 1 0 50981C/50981 1 0				ĭ	0.00				0	 	 	0 1 1	0.00		- - -		0 0	 	-	- 0 - 1 - 1	0.00 0.00	-	 	
Habitat Means					0.00								0.00						-	-	0.00	-	_	
Fisher's Pow Stouffer's Pow				Power Fower			P-value P-value		Power Power			ower-			-value		Power Power				r-50% r-50%		P-value P-value	
C15.1C/C15.1 2 0 50981C/50221 2 0 50981C/50981 2 0				ŏ	0.00	 	-		0 0 0	 		•	0.00		-		0 0 0		-	- 0 - 0 - 1	0.00	-	 	
Habitat Means					0.00								0.00							-	0.00	_	_	
Fisher's Pow Stouffer's Pow				Power Power			P-value P-value		Power Power			ower-			-value -value		Power Power			Power Power	r-50 % r-50%		P-value P-value	
C15.1C/C15.1 3 0 50981C/50221 3 0 50981C/50981 3 0		 		ō			-		0 0 0			0		 	-		0 0 0		-	- 0 - 0 - 0			 	
Habitat Means																			_	_		_	_	
Fisher's Pow Stouffer's Pow				Power Power			P-value P-value		Power Power			ower-			-value -value		Power			Power	-50% -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 then direction of overall tests.
z Only one site pair.

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

				San	and Mud							Tota	l Substra	te										
Site Pair M	vd N	c	SE	N	0	SE	ÇV D	P	N	c	SE	N	0	SE	CV D	P	N	С	SE	Ŋ	0	SE	CA D	P
C15.1C/C15.1 50981C/50221 50981C/50981	1 0			0 1 1	0.00 0.00		-		0 0 0			· i	100.00											
Habitat Means					0.00								100.00											
Fisher's Stouffer's	Powe≃ Powe≃				r-50% r-50%		P-value P-value		Power Power				er-50% er-50%		P-value P-value		Power Power			Power Power			P-value P-value	
C15.1C/C15.1 50981C/50221 50981C/50981	2 0			0 0 1	0.00				0 0 0				100.00											
Habitat Means					0.00							-	100.00											
Fisher's Stouffer's	Power Power				r-50% r-50%		P-value P-value		Power Power				er-50% er-50%		P-value P-value		Power			Power Power			P-value P-value	
C15.1C/C15.1 50981C/50221 50981C/50981	3 0			0 0 0	 				0			- 0 - 0			_									
Habitat Means	3						-					-												
Fisher's Stouffer's	Power Power				r-50% r-50%		P-value P-value		Power Power				er-50% er-50%		P-value P-value		Power Power			Power Power			P-valuc P-value	

x. At least one site pair p-value < 0.100 in opposite direction of 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. Algal Percent Cover. Totals and Seasonal Groups. Rodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared September 1989.

Results of statistical differences between means of control and ciled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; CV = coefficient of variation; SE - standard error; D = direction of difference; + = control > ciled; - = control < ciled; c = control - ciled; P = probability value; dashes = insufficient data.

			Algal	Dive	rsity Ind	iex (a)					Algal	Tax	a Richne	ss (b)						Tot	al Algae			
Site Pair Myd	N	С	SE	N	٥	SE	CV D	P	N	С	SE	N	0	SE	CV D	P	N	С	SE	N	0	SE	CV D	P
30196C/30196 1 31252C/31248 1 31252C/31252 1 99826C/33141 1	0 0 0 3	0.00	0.00	3 0	0.00 0.00 0.00	0.00 0.00 	- - - o		0 0 0 3	0.33	0.33	3 3 0 1	1.00 0.33 0.00	0.00 0.33 	- - - +		0 0 0 3	 1,67	 1.67	3 3 0 1	16.67 3.33 0.00	12.94 3.33 	-	
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		
	Power Power				r-50% r-50%		P-value P-value		Power Power				r-50% r-50%		P-value		Power Power			Power Power			P-value P-value	
30196C/30196 2 31252C/31248 2 31252C/31252 2 99826C/33141 2	0	0,00	 0.00	2	0.13 0.00 0.15	0.13 0.00 	- - -	 	0 0 0 3	 0.67	0.33	2 2 0 1	1.00 0.50 2.00	1.00 0.50	- - - 		0 0 0 3	45.00	24.66	2	28.75 1.25 22.50	28.75 1.25 	-	
Habitat Means		0.00	0.00		0.10	0.07				0.67	0.33		1.17	0.75				15.00	24.70		17.53	15.05		
	Power Power				r-50% r-50%		P-value P-value		Power Power				≃-50% r-50%		P-value P-value		Power Power			Power Power	r-50 % r-50 %		P-value P-value	
30196C/30196 3 31252C/31248 3 31252C/31252 3 99826C/33141 3	0	 0.00	 	3 0 0	0.56	0.30 0.09 	- - -	 	0 0 0	1.00		2 3 0 0	6.50 0.67 3.58	3.50 0.67 2.08	- - -		0 0 0 1	7.50		3 0	96.25 2.50 49.40	3.75 2.50 3.15	-	
Habitat Means Fisher's Stouffer's	Power Power	0.00		Powe	0.33 r-50% r-50%		P-value P-value		Power Power				r-50% r-50%]	P-value P-value		Power Power			Powe:	c-50%	1	P-value 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.</p>
y Direction of difference between habitat means is different than direction of overall tests.
2 Only one site sair.

Only one site p	air.																			• • •	
			To	tal I	nvertebra	tes					Rock						Pere	nnials (P	')		
Site Pair	Mvd N	C	SE	N	0	SE	cv						ш	N	c	SE	N	0	E	CV D	₽
30196C/30196 31252C/31248 31252C/31252 99826C/33141	1 0	0.83	 0,83	3	0.00 20.00 5.00	0.00) - 	 0 0 0 3	 97.50	3 3 0 1.44 1	83.33 76.67 95.00	12.94 12.44 	- - - -	 0 0 0 3	1.67	1.67	3 0 1	16.67 3.33 0.00	12,94	- - 	
Habitat Mean Fisher's Stouffer's	Power			Power	8.33 r-50% r-50%	5.05 	P-value P-value	 Power Power	97.50		85.00 r-50% r-50%		-value -value	 Power Power	1.70		Powe	6.67 r-50% r-50%		P-value P-value	
30196C/30196 31252C/31248 31252C/31252 99826C/33141	2 0	40,83	13.87	2	3.75 70.00 20.00	3.75 27.50	- 	 0 0 0 3	 14.17	2 2 0 11.76 1	67.50 28.75 57.50	32.50 26.25 	-	 0 0 0 3	 45.00	 24.66	2	28.75 1.25 20.00	28.75 1.25 	_	
Habitat Mean Fisher's Stouffer's	Power			Powe:	31.27 r~50% r-50%	15.69 	P-value P-value	 Power Power	14.20		51.27 r-50% r-50%		-value -value	 Power Power	45.00		Powe	16.70 er-50% er-50%		P-value P-value	
30196C/30196 31252C/31248 31252C/31252 99826C/33141	3 0	 37,50	 	3	3.75 60.00 	3.75 30.00) -	 0 0 0 1	 55.00	2 3 0 0	0.00 37.50	0.00 27.50 	- - -	 0 0 <u>1</u>	 7.50		3	50.00 1.67 	27.50 1.67 	_	
Habitat Mean Fisher's Stouffer's	Power			Powe:	31.90 r-50% r-50%	16.90	P-value P-value	 Power Power	55.00		18.75 r-50% r-50%		-value -value	 Power Power			Powe	25.85 er-50% er-50%		P-value P-value	

Table C-

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

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

			Annue	als (A)							Ephen	erals (AE	:)										
Site Pair Mvd N	С	SE	N	0	SE	GA D	P	N	С	SE	N	0	SE	CV D	Þ	N	С	SE	N	0	SE	CA D	P
30196C/30196 1 0 31252C/31248 1 0 31252C/31252 1 0 99826C/33141 1 3	0.00		3 3 0 1	0.00 0.00 0.00	0.00 0.00 	-	 - 	0 0 0 3	0.00	0.00	3 0 :	0.00 0.00 0.00	0.00 0.00 	- - - - o									
Habitat Means Fisher's Power			Power- Power-			P-value P-value		Power Power	0.00			0.00 r-50% r-50%		-value		Power Power			Power-			P-value P-value	
Stouffer's Power 30196C/30196 2 0 31252C/31248 2 0 31252C/31252 2 0 99826C/33141 2 3	0.00		2 2 0	0.00	0.00	- - -		0 0 0 0 3	 0.00	0.00	2 2 0	0.00 0.00 0.00	0.00 0.00 	- - - - o									
Habitat Means Fisher's Power Stouffer's Power			Power- Power-			P-value P-value		Power Power	0.00	0.00		0.00 r-50% r-50%		-value -value		Power Power			Power-			P-value P-value	
30196C/30196 3 0 31252C/31248 3 0 31252C/31252 3 0 99826C/33141 3 1	0.00	 	3 0	46.25 0.83 	23.75 0.83 	-		0 0 0	o.00	 	2 3 0 0	11.25 0.00 	11.25	- - -									
Habitat Means Fisher's Power Stouffer's Power			Power- Power-			P-value P-value		Power Power	0.00			5.65 r-50% r-50%		-value -value		Power Power			Power-			P-value P-value	

x At loast one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habital 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.

			T	otal	Chlorophy	yta .				Morp	hologic	a 1 G	roup: B	laded Gr	eens				Bla	ded Gr	eens (AE) (a)		
Site Pair Mvd	N	с	SE	N	0	SE	CV D	P	N	С	SE	N	0	SE	CV D	P	N	c	SE	N	٥	SE	CV D	P
30196C/30196 1 31252C/31248 1 31252C/31252 1 99826C/33141 1	0 0 0 3	 0.00	0.00	3	0.00	0.00	- - - - 0		0 0 0 3	0.00	0.00	3 0 1	0.00 0.00 0.00	0.00 0.00 	- - - - 0		0 0 0 3	 0.00	0.00	3	0.00 0.00 0.00	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		
	Power Power				r-50% r-50%		?-value ?-value		Power Power				r-50% r-50%		P-value P-value		Power Power			Power Power			P-value P-value	
30196C/30196 2 31252C/31248 2 31252C/31252 2 99826C/33141 2	0 0 3	 0.00	0.00	2	0.00 0.00 2.50	0.00	- - - - •		0 0 0 3	0.00	0.00	2 2 0 1	0.00	0.00 0.00 	- - - - 0		0 0 0 3	0.00	0.00	2	0.00 0.00 0.00	0.00	- - - - 0	
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		
	Power Power				r-50% r-50%		P-value P-value		Power Power				r-50% r-50%		?-value ?-value		Power Power			Power Power	-50% -50%		P-value P-value	
30196C/30196 3 31252C/31248 3 31252C/31252 3 99826C/33141 3	0 0	0.00		3	12.50 0.00 	12,50 0.00 	- - -		0 0 0 1	0.00		2 3 0 0	11.25 0.00 	11.25 0.00 	- - -		0 0 0	0.00		3 C	11.25 0.00 	11.25 0.00 	- - -	
Habitat Means		0.00			6,25	6.25				0.00			5.65	5.65				0.00			5.65	5.65		
	Power Power				r-50% r-50%		P-value P-value		Power Power				r-50% r-50%		P-value P-value		Power Power			Power	c-50% c-50%		P-value P-value	

(a) Mornmannia, Monostroma, Jlva 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. 2 Only one site pair.

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

		Morpholog	gical (roup:	Fine F	ilament	ona	Green	3			A¢	rosip	honia sp.	(A)				C1	aetomor	pha/R	hizoclon	ium (A)	(a)	
Site Pair Mv	d N	С	8E	N	0	SE	C	7 D	P	N	С	SE	N	0	SE	CA D	P	N	С	SE	N	0	Se	CV D	P
30196C/30196 1 31252C/31248 1 31252C/31252 1 99826C/33141 1	. 0	0.00	0.00	3	0.00 0.00 0.00	0.00				0 0 0 3	 0.00	0.00	3	0.00 0.00 0.00	0.00 0.00 	- - o		0 0 0 3	0.00	0.00	3 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	0.00		0.00	0.00		
Fisher's Stouffer's	Power Power			Power Power			P-v		- 	Power Power				r-50% r-50%		P-value P-value		Power Power				r-50% r-50%		P-value P-value	
30196C/30196 2 31252C/31248 2 31252C/31252 2 99826C/33141 2	0	0.00	0.00	2	0.00 0.00 2.50	0.00	-	- - -		0 0 0 3	 0.00	0.00	2	0.00 0.00 0.00	0.00	-		0 0 0 3	0.00	0.00	2	0.00	0.00 0.00 		
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 Stouffer's	Power Power			Power			P-va			Power Power				er-50% er-50%		P-value P-value		Power Power				r-50% r-50%		P-value P-value	
30196C/30196 3 31252C/31248 3 31252C/31252 3 99826C/33141 3	3 O	0.00	 	3	1.25	1.2		-	 	0 0 0 1	0.00		3	1.25 0.00 	1.25 0.00 	- - -		0 0 0 1	0.00	 	3 0 0	0.00	0.00	- - -	
Habitat Means		0.00			0.65	0.6	5				0.00			0.65	0.65				0.00			0.00	0.00		
Fisher's Stouffer's	Power Power			Power Power						Power Power				er-50% er-50%		P-value P-value		Power Power				r-50% r-50%		P-value 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 babitat means is different than direction of overall tests. 2 mBy one site pair.

Table C-5.296. Algal Percent Cover. Chlorophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared September 1989. (Continued.)

			C1	adoph	ora sp. (AB)					0 1	othri	ж вр. (7	E)					τ	Tospor	a sep. ()	AB)		
Site Pair Mvd	N	c	SE	N	0	SE	CA D	P	N	С	SE	N	0	SE	ÇV D	P	N	С	SE	И	0	SE	CV D	P
30196C/30196 1 31252C/31248 1 31252C/31252 1 99826C/33141 1	0	 0,00	0.00	3	0.00 0.00 0.00	0.00	- - - - o		0 0 0 3	0.00	0.00	3 0 1	0.00	0.00	- - - - 0		0 0 0 3	0.00	0.00	3 0 1	0.00	0.00	- - - o	
	Power Power	0.00	0.00	Power			P-value P-value		Power Power	0.00		Power Power			P-value P-value		Power Power	0.00		Power-			P-value P-value	
30196C/30196 2 31252C/31248 2 31252C/31252 2 99826C/33141 2	0 0 0 3	 0.00	0.00	2	0.00 0.00 0.00	0.00	- - - 0		0 0 0 3	0.00	0.00	2 2 0 1	0.00	0.00	- - - o		0 0 0 3	0.00	0.00	2	0.00	0.00 0.00 	- - - 0	
	Power Power	0.00	0.00	Power	0.00 r-50% r-50%		P-value P-value		Power Power	0.00		Power Power			P-value P-value		Power Power	0.00		Power-			P-value P-value	
30196C/30196 3 31252C/31248 3 31252C/31252 3 99826C/33141 3	0 0 0 1	0.00		3	0.00	0.00	-	 	0 0 0	0.00		2 3 0	0.00	0.00			0 0 1	0.00	 	0	0.00	0.00	-	
	Power Power	0.00		Power	0.00 r-50% r-50%		P-value P-value		Power Power	0.00		Power Power			P-value P-value		Power Power	0.00		Power-	-50%		P-value P-value	

x At least one site pair p value < 0.103 in opposite direction of overall tests.</p>
y Direction of difference between habitat means is different than direction of overal) tests.
z Only one site pair.

Blidingia/Enteromorpha (AE) (a) Morphological Group: Tubular and Saccate Greens N С 8E N 0 SE CA D P SE CV Þ P 0 CV N C SE N C SE 0 SE Site Pair Mvd N 0.00 0.00 30196C/30196 1 0.00 0.00 --0.00 0.00 0.00 0.00 31252C/31248 1 ------31252C/31252 1 0.00 - 0 0.00 0.00 99826C/33141 1 3 0.00 0.00 0.00 --- 0 ---0.00 0.00 0.00 0.00 0.00 0.00 Habitat Means 0.00 0.00 Power-50% --- P-value --- P-value Power Power-50% --- P-value Power Power-50% ---Fisher's Power Power-50% --- P-value Power Power-50% --- P-value Power-50% --- P-value Power Stouffer's 0.00 0.00 ---0.00 30196C/30196 2 0 2 0.00 0.00 ---0.00 -------0.00 31252C/31248 2 ... --0.00 0 31252C/31252 2 Λ - 0 0.00 0.00 0.00 --- 0 0.00 0.00 0.00 99826C/33141 2 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 Habitat Means --- P-value Power-50% --- P-value ---Power-50% Power-50% --- P-value Power Fisher's Power --- P-value Power-50% --- P-value Power ---Power-50% Power-50% --- P-value ---Power Stouffer's Power 0.00 0.00 30196C/30196 3 0.00 0.00 ---O Û 0.00 0.00 -----------0.00 0.00 ---Ð 31252C/31248 3 --**-**-----31252C/31252 3 0.00 0 ---99826C/33141 3 0.00 --Đ --0.00 0.00 0.00 0.00 0.00 Habitat Means 0.00 Power-50% --- P-value --- P-value Power --- P-value Power Power-50% Power ---Power-50% Fisher's Power-50% P-value --- P-value Power Power-50% --- P-sra1116 ------Power-50% Chanfforic Dowor ___

x At least one site pair p-value < 0.100 in opposite direction of 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-5.297. Algal Percent Cover. Phaeophyta. Rodiak/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; dashos = insufficient data.

				1	Phaeophyt					Morpl	hologic	al G	roup: Bl	aded Br	OWIZE					Alari	авр. (А)		
Site Pair Myd		c	SE	N	О	SE	CV D	P	м	c	SE	N	0	SE	CA D	P	N	¢	SE	N	0	SE	CV D	P
Site Pair Mvd				-	16.67	12.94			0			3	16.67	12.94	-		0			3	0.00	0.00	-	
31252C/31248 1 31252C/31252 1	0			0	3.33 0.00	3.33			0	1,67	1.67	0	0.00		-		0 3	0.00	0.00		0.00		- 0	
99826C/33141 1	3	1.67	1.67	1	6.67	8.10			_	1.70	1.70		6.67	8.10				0.00	0.00		0.00	0.00		
Habitat Means Fisher's	Power Power		1	Power	-50%		P-value P-value		Power Power			Powe Powe	r-50% r-50%		-value -value		Power Power			Power	-50%		P-value P-value	
Stouffer's 30196C/30196 2 31252C/31248 2 31252C/31252 2	0	 		2 2 0	20.00	20.00 1.25	-		0 0 0	 45.00	 24.66	2 2 0 1	20.00 1.25 0.00	20.00	-		0 0 3	0.00	0.00	2	0.00	0.00	-	
99826C/33141 2 Habitat Means		45.00 45.00	24.66		7.10	10.65				45.00	24.70		7.10	10.65				0.00	0.00		0.00	0.00		
Fisher's	Power Power			Power			P-value P-value		Power Power				er-50% er-50%		P-value P-value		Power Power			Power Power			P-value P-value	
Stouffer's 30196C/30196 3 31252C/31248 3 31252C/31252 3	0		==	2 3 0	50.00 1.67	27.50 1.67) – , –		0 0 0	 0.00		2 3 0	50.00 1.67	27.50 1.67	-		0 0 0 1	0.00	 	3	10.00	10.00	-	
99826C/33141 3 Habitat Means	1	0.00		0	25.85	14.60			-	0.00			25.85	14.60				0.00			5.00	5.00	P-value	
Fisher's	Power				r-50% r-50%		P-valuë P-value		Power Power				er-50% er-50%		P-value P-value		Power Power				:-50% :-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.
y Only one site pair.

Table C-5.297. Page 1. December 15, 1994

Only one site pair.						-: (D)				Adı	ilt Fucu	as gr	ardneri (1	P) (> 2¢	m)			Juv	enile F	ucus g	ardneri	(P) (<=	2cm)	
			SE	1 Fuct	o gardne	SE	CV D	P	N	c		N	0	SE	CA D	Þ	N	¢	SE	N	0	SE	CA D	P
ite Pair Mvd		c 	SE	3	16.67	12.94	-		0			3	14.17	14.17	-		0			-	2.50	1.44		
1252C/31248 1 1252C/31252 1	0			0	3.33	3.33			0	1.67	1.67	0	3.33 0.00	3.33	-		0	0.00	0.00		0.00			
9826C/33141 1	3	1.67	1.67		0.00 6.67	8.10			3	1.70	1.70	-	5.83	8.75				0.00	0.00		0.83	0.70		
abitat Means Fisher's	Power		,0	Powe:	r-50% r-50%		P-value P-value		Power Power				r-50% r-50%		-value -value		Power Power			Power Power	-50%		P-value P-value	
Stouffer's 0196C/30196 2 1252C/31248 2 1252C/31252 2	0 0	 	24.66	2 2 0	20.00	20.00	-		0 0 0 3	 45.00	 24.66	2 2 0 1	20.00 1.25 0.00	20.00 1.25 	- - -		0 0 0 3	0.00	0.00	2	0.00	0.00	- - - o	
1826C/33141 2 abitat Means		45.00 45.00	24.70		7.10	10.65				45.00	24.70		7.10	10.65				0.00	0.00		0.00	0.00	P-value	
Fisher's	Power				r-50% r-50%		P-value P-value		Power Power				r-50% r-50%		-value -value		Power Power				c-50%		P-value	
Stouffer's 0196C/30196 3 1252C/31248 3 1252C/31252 3 9826C/33141 3	0	 0.00		- 2 - 3 - 0	40.00	37.50 1.67	-		0 0 0	0.00	 	2 3 0 0	40.00	37.50 1.67 	- - -		0 0 0	0.00		- 3 - 0	0.00	0.00	- -	
Mabitat Means	-	0.00		-	20.85	19.60	ı			0.00			20.85	19.60			Power	0.00			0.00 r-50%	0.00	P-value	
Fisher's	Power				r-50% r-50%		P-value P-value		Power Power				r-50% r-50%		e-value e-value		Power				r-50%		P-value	

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

Table C-5.297. Algal Percent Cover. Phaeophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared September 1989. (Continued.)

				_		(D)	\				М	rphologi	cal Gr	: קניס	Coarse F	ilament	ous Bro	WINE		м	yelophy	cus/S	cytosipho	n (A) (a)	
				SE Fu	N St	ipes (P)	SE		CV D	P	N	С	SE	N	0	SE	CV D	P	N	С	SE	N	0	SE	CA D	P
ite Pair	Mvd	N	С				0.0				n			3	0.00	0.00	-		0				0.00	0.00	-	
0196C/30196		0			3	0.00	0.0		_		Ö			3	0.00	0.00	-		· ·			-	0.00	0.00	-	
1252C/31248	1	0			D.	0.00		_	_		0			O			-		2	0.00	0.00		0.00		- 0	
1252C/31252 9826C/33141	1		0.00	0.00	1	0.00	-	_	- 0		3	0.00	0.00	1	0.00		- 0					-			-	
		_	0.00	0.00		0.00	0.0	10				0.00	0.00		0.00	0.00				0.00	0.00		0.00	0.00		
abitat Mear	15		0.00	0.00							Power			Powe	r-50%		P-value		Power				:-50%		P-value	
Fisher's		Power Power				r-50% r-50%			value value		Power				r-50%		P-value		Power		-	Powe	r-50%		2-value	
Stouffer's	3	POWEI									0			2	0.00	0.00	_		- 0			2	0.00	0.00		
0196C/30196		0			_	0.00	0.0		-		0			2	0.00	0.00	-		- 0			_	0.00	0.00		
1252C/31248		0			-	0.00			_		ő			0			-		- 0		0.00		0.00			
1252C/31252		3	0.00	0.00		0.00			- 0		3	0.00	0.00	1	0.00		- 0		- 3	0.00					-	
9826C/33141		-										0.00	0.00		0.00	0.00				0.00	0.00		0.00	0.00		
abitat Mear	15		0.00	0.00		0.00	0.0	ΙŪ				0.00	0.00						Power			Powe	r-50%		P-value	
Fisher's		Power				r-50%			value		Power Power				er-50% er-50%		P-value P-value		_				r-50%		P-value	
Stouffer's	3	Power			Powe:	r-50%		P-	value		Fower			1000					^			2	0.00	0.00	_	
0196C/3019	<i>c</i> 3	n			2	0.00	0.0	0.0	-		0				0.00	0.00						-	0.00	0.00		
1252C/3124		0			3	0.00	0.0	30	-		0			3	0.00	0.00						0			-	
1252C/3125	2 3	ŏ			0				-		0			a					- 1	0.00		0			-	
9826C/3314		1	0.00		0				-		1	0.00		U						0.00			0.00	0.00		
abitat Mea:	nø		0.00			0.00	0.4	00				0.00			0.00	0.00				0.00						
abital mea								-	value		Power			Powe	er-50%		P-value		- Power		-		r-50%		P-value	
Fisher's		Power				r-50%			value		Power				er-50%		P-value		Power		-	Powe	r-50%		P-value	
Stouffer'	5	Power			POWE	r-50%		P-	AG T ME																	

(a) Dead fucus plants or stipes without blades.

[a: Genera not separated. \times At least one mile peir p-value < 0.100 in opposite direction of overall tests. \times Pirrection of difference between hubitst means is different than direction of overall tests. \times Only one site peir.

			torpholog	ical G	roun.	Fine F	Llamento	us Br	owns			Fi	ne Fil	ament	ous Brown	s (AE) (b)			MOT	тотойт	al Gr	oup: Cru	Brose D	10,1110	
			C	SE .	N N	0	SE		D	P	N	С	ge	N	0	SE	ÇA D	P	N	C	SE	N	0	ŜE	ÇV D	Þ
te Pair	Mvd	N							_					3	0.00	0.00			0			3	0.00	0.00	-	
196C/30196	6 1	Ð			3	0.00	0.00	-			0			-	0.00	0.00	_		ū			3	0.00	0.00	_	
252C/31248		ō			3	0.00	0.00	-			U			-	0.00	0.00	_		O.			C			-	
252C/31252	·	n			0			-			0						- 0		-	0.00	0.00	1	0.00		- 0	
2320/31232	1 1	2	0.00	0.00	1	0.00		-	0		3	0.00	0.00	1	0.00		- 0		_			-				
326C/33141	т т	د	0.00	0.00	-							0.00	0.00		0.00	0.00				0.00	0.00		0.00	0.00		
bitat Mear	ns		0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00						_	- 0.5		P-value	
DIEGO WOF-								1 .			Power			Powe	r-50%	7	-value		Power		-		r-50%			
Fisher's		Power			Power			2-val			Power				r-50%	3	-value		Power		-	Powe	r-50%		P-value	
Stouffer's	S	Power			Power	-50%		P-valı	16		LOMET			1000								•	0.00	0.00	_	
							0.00	_			0			2	0.00	0.00	-					-				
196C/3019	62	0			2	0.00	0.00				0			2	0.00	0.00	-		. 0			_	0.00	0.00		
252C/3124	8 2	0			2	0.00		-			ŏ			. ก			-		. 0							
252C/3125		0						-			2	0.00	0.00		0.00		- 0		. 3	0.00	0.00	1	0.00		- 0	
826C/3314		3	0.00	0.00	1	0.00		-	0		3	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		
bitat Mear	ns		0.00	0.00		0.00	0.00														_	Dowe	r-50%		P-value	
		_			Down	c-50%		P-val	ıe		Power		-		r-50%		P-value						r-50%		P-value	
Fisher's		Power				c-50%		P-val			Power		-	Powe	r-50%		P-value		Power		_	FOWE	1-200			
Stouffer'	S	Power			Power	2-30%			~~					_		0.00	_					2	0.00	0.00	-	
1000/2010	6 3	0			2	0.00	0.00	-			0			. 2	0.00	0.00						3	0.00	0.00	-	
196C/3019	0 3	0			3	0.00	0.00	-			0			•	0.00	0.00	-		~			ō			_	
252C/3124		v			-			_			0			•			-			0.00					_	
252C/3125	2 3	0						_			1	0.00		- 0			-		- 1	0.00		V				
826C/3314	1 3	1	0.00		U										0.00	0.00				0.00			0.00	0.00		
bitat Mea	ne		0.00			0.00	0.00					0.00		-	0.00	0.00										
micat mea	1115		0.50											Dorac	er-50%		P-value		Power		-		r-50%		P-value	
Fisher's		Power				r-50%		2-val			Power				r=50%		P-value		Power		-	Some	r-50%		P-value	

(b) Elachista, Ectocarpus and Pilsyella.

x At least one site pair p value < 0.180 in opposite direction of overall tests. Direction of difference between bebitat means is different than direction of overall tests. Z Only one site pair.

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

Table C-5.297. Algal Percent Cover. Phaeophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared September 1989. (Continued.)

				Ralfs	ia/Pet	roderma	(P) (a)																				
Site Pair M	vd N		С	SE	N	0	SE	CV D	P	N	c	SE	N	o	SE	СV	D	P	N	С	şe	N	0	SE	cv	D	P
30196C/30196 1 31252C/31248 1 31252C/31252 1 99826C/33141 1	1 0		0.00	0.00	3	0.00 0.00 0.00	0.00	-			•																
Habitat Means Fisher's Stouffer's	Pow Pow	er	0.00	0.00	Power	0.00 -50% -50%		P-value P-value		Power Power			Power- Power-			P-valu P-valu			Power Power			Power Power			P-val		
30196C/30196 31252C/31248 31252C/31252 99826C/33141	2 0		 0.00	0.00	ō	0.00	0.00) – - – - – o																			
Habitat Means Fisher's Stouffer's	Pow Pow	er	0.00	0.00	Power	0.00 -50% -50%		P-value P-value		Power Power			Power- Power-			P-valu P-valu			Power Power			Power Power			P-va P-va		
30196C/30196 31252C/31248 31252C/31252 99826C/33141	3 0 3 0 3 1		0.00		Ö	0.00	0.00) - - -																			
Habitat Means Fisher's	Pow	er	0.00		Power	0.00 -50%		P-value P-value		Power Power			Power-			P-valu P-valu			Power Power			Power Power			P-va P-va		

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

Power-50% Power-50%

--- P-value --- P-value

Power

Stouffer's Power

Table C-5.298. Algal Percent Cover. Rhodophyta. Kodiak/Alaska Peninsula. gheltered 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; p = probability value; dashes - insufficient data.

					Total	Rhodophy	ta				Mor	phologica	l Group:	Bladed R	Reds				Gigart	inace	ae Group	(P) (a)		
Site Pair	Mvd	N	С	SE	N	0	SE	CV D	P	N	С	se n	٥	88	GA D	P	N	С	SE	N	0	SE	CV D	P
30196C/30196 31252C/31246 31252C/31252 99826C/3314	8 1	0	0.00	 0.00	3	0.00 0.00 0.00	0.00	-		0 0 0 3	0.00	3 3 0 0.00 1	0.00 0.00 0.00	0.00	-	 	0 0 0 3	 0.00	0.00	3	0.00 0.00 0.00	0.00 0.00 	- - - 0	
Habitat Mean	ns		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				r-50% r-50%		P-value P-value		Power Power			wer-50% wer-50%		P-value P-value		Power Power				r-50% r-50%		-value -value	
30196C/30196 31252C/31246 31252C/31252 99826C/33143	8 2 2 2	0	0.00	0.00	2	8.75 0.00 20.00	8.75 0.00 	-		0 0 0 3	0.00	2 2 0 0.00 1	0.00 0.00 0.00	0.00 0.00 	-		0 0 0 3	 0.00	0.00	ō	0.00	0.00 0.00 	- - - - 0	
Habitat Mear	ns		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 Stouffer's		Power Power				r-50% r-50%		P-vaiue P-value		Power Power			wer-50% wer-50%		P-value P-value		Power Power				r-50% r-50%		-value -value	
30196C/30196 31252C/31248 31252C/31252 99826C/33141 Habitat Mear	8 3 2 3 1 3		7.50	 	3 0 0	33.75 0.83 17.30	11.25 0.83 6.05	-		0 0 0 1	0.00	2 3 0 0	11.25 0.00 5.65	8.75 0.00 4.40	-		0 0 0 1	 0.00		3	1.25 0.00 0.65	1.25 0.00 0.65	- - -	
Fisher's Stouffer's		<i>Power</i> Power			Powe	r-50% r-50%		P-value P-value		Power Power		Pov	wer-50% ver-50%	~ I	P-value P-value		Power Power		-	Powe:	r-50%	I	-value -value	

(e) Chondrus, Iridaes, Masicospus and Rhodog ossum. & Allowest one site part p-wells c 0.100 in opposite direction of overall twsts, y Direction of difference between habital means is different than direction of overall tasts. Z CRI/ one site pair.

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

				Palman	ria spp.	(A)					Phycodi	ye riggi:	i (A)					F	orphy	rasp. ((A)		
Site Pair No	vd N	С	SE	N	0	SE	CV D	P	N	С	se n	0	88	CV D	P	N	С	8E	N	0	SE	ÇV D	P
30196C/30196 : 31252C/31248 : 31252C/31252 : 99826C/33141 :	1 0 1 0	0.00	0.00	3	0.00 0.00 0.00	0.00			0 0 0 3	0.00	3 3 0 0.00 1	0.00 0.00 0.00	0.00	- - - o		0 0 0 3	0.00	0.00	3 0 -	0.00	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 Stouffer's	Power Power				r-50% r-50%		P-value P-value		Power Power			er-50% er-50%		P-value P-value		Power Power			Power-			-value -value	
30196C/30196 3 31252C/31248 2 31252C/31252 2 99826C/33141 2	2 °C 2 °C	0.00	0.00	2	0.00 0.00 0.00	0.00) – . –		0 0 0 3	0.00	2 2 0 0.00 1	0.00 0.00 0.00	0.00 0.00 	-		0 0 0 3	0.00	0.00	2 2 0 1	0.00 0.00 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 Stouffer's	Power Power				r-50% r-50%		P-value P-value		Power Power			er-50% er-50%		P-value P-value		Power Power			Power-			-value -value	
30196C/30196 3 31252C/31248 3 31252C/31252 3 99826C/33141 3	3 0 3 0	0.00	 	3	10.00	10.00) – · –		0 0 0 1	0.00	2 3 0 0	0.00	0.00 0.00 			0 0 0 1	 0.00	 	2 3 0 0	0.00 0.00 	0.00 0.00 	- - - -	
Habitat Means		0.00			5.00	5.00	•			0.00		0.00	0,00				0.00			0.00	0.00		
Fisher's Stouffer's	Power Power				r-50% r-50%		P-value P-value		Power Power			er-50% er-50%		-value -value		Power Power			Power-			-value -value	

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

Table C-5.298. Algal Percent Cover. Rhodophyta. Rodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared September 1989. (Continued.)

		7	rokida	dendr	on kurile	nsis (A)	ı		1	Morpholog	ical Grou	p: Coarse	Filame:	ntous Red	la			Crypto	osiphonia woo	dii (A)	
Site Pair My	d N	c	SB	N	0	SE	CV D	P	N	С	se n	0	SE	CV D	P	N	c	SE	n o	se CV d	P
30196C/30196 1 31252C/31248 1 31252C/31252 1 99826C/33141 1	0	0.00	0.00	3	0.00 0.00 0.00	0.00	- - - - 0		0 0 0 3	0.00	3 3 0	0.00 0.00 0.00	0.00	-		0 0 0 3	0.00	0.00	3 0.00 3 0.00 0 1 0.00	0.00 - 0.00 - 	
Habitat Means Fisher's Stouffer's	Power Power	0.00	0.00	Powe	0.00 r-50% r-50%		-value		Power Power	0.00		0.00 wer-50% wer-50%		P-value P-value		Power Power	0.00		0.00 Power-50% Power-50%	0.00 P-value P-value	
30196C/30196 2 31252C/31248 2 31252C/31252 2 99826C/33141 2	0	 0.00	0.00	2	0.00 0.00 	0.00 0.00 	- - - - 0		0 0 0 3	0.00	2 2 0 0.00 1	0.00	0.00	-		0 0 0 3	0.00	0.00	2 0.00 2 0.00 0 1 0.00	0.00 - 0.00 - 	
Habitat Means Fisher's Stouffer's	Power Power	0.00	0.00	Powe	0.00 er-50% er-50%		P-value P-value		Power Power	0.00		6.67 wer-50% wer-50%		P-value P-value		Power Power	0.00		0.00 Power-50% Power-50%	0.00 P-value P-value	
30196C/30196 3 31252C/31248 3 31252C/31252 3 99826C/33141 3	0	0.00		3	0.00 0.00 	0.00	-		0 0 0	7.50	2 3 0 0	12.50 0.83 	12.50 0.83	- - -		0 0 0 1	0.00		2 10.00 3 0.00 0	10.00 - 0.00	
Habitat Means Fisher's Stouffer's	Power Power	0.00		Powe	0.00 er-50% er-50%		P-value P-value		Power Power	7.50		6.65 wer-50% wer-50%	6.65 	P-value P-value		Power Power	0.00		5.00 Power-50% Power-50%	5.00 P-value P-value	

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

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z Only one site po				Endo	cladia	muricat	a (P)					Gloid	pelt	is furcat	a (A)				1	Neorhod	omela/	Rhodomel	a (P) (a	1)	
Site Pair	Dva	N	С	gz	N	0	8E	CV D	P	N	c	SE	n	0	SE	CV D	P	N	С	SE	N	0	SE	CV D	P
30196C/30196 31252C/31248 31252C/31252 99826C/33141	1	0 0 0 3	0.00	0.00	3	0.00	0.00	-		0 0 0 3	0.00	0.00	3 3 0 1	0.00	0.00 0.00 	- - - - o		0 0 0 3	0.00	0.00	3 0 1	0.00	0.00	- - - - 0	
Habitat Mean Fisher's Stouffer's		Power Power	0.00	0.00	Power Power			P-value P-value		Power Power	0.00		Power Power	0.00 -50% -50%		-value -value		Power Power	0.00		Power Power			P-value P-value	
30196C/30196 31252C/31248 31252C/31252 99826C/33141	2	0	0.00	0.00	2	0.00	0.00	-		0 0 0 3	0.00	0.00		0.00	0.00 0.00 	- - - • o		0 0 0 3	0.00	0.00	2	0.00 0.00 20.00	0.00	-	
Habitat Mean Fisher's		Power	0.00	0.00	Power			P-value P-value		Power Power	0.00			0.00 -50% -50%		-value		Power Power	0.00		Power			P-value P-value	
Stouffer's 30196C/30196 31252C/31248 31252C/31252 99826C/33141	3 3 3 3 3	Power 0 0 0 1	0.00	 	3	0.00	0.00	- - -		0 0 0 0	0.00	 	2 3 0	0.00 0.83 	0.00 0.83	-		0 0 0	7.50		2 3 0 0	2.50 0.00 	2.50	-	
Habitat Mean Fisher's Stouffer's		Power Power	0.00		Power Power			P-value P-value		Power Power	0.00		Power Power	0.40 :-50% :-50%		-value -value		Power Power	7.50 		Power			P-value P-value	

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

Table C-5.298. Algal Percent Cover. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared September 1989. (Continued.)

		_	040	nthal:	ia flocco	ва (P)		_				Ptilo	a/Ne	optilota	(P) (b)				Mo	rpholog	ical	Group: S	Saccate 1	Reds	
Site Pair M	Mvd N	С	SE	N	0	SE	CA	D	P	N	С	SE	N	0	SE	CA D	P	N	С	SE	N		SE	CV D	P
30196C/30196 31252C/31248 31252C/31252 99826C/33141	1 0	0.00	0.00	- 3 - 0	0.00 0.00 0.00	0.0		0		0 0 0 3	0.00	0.00	3 3 0 1	0.00 0.00 0.00	0.00			0 0 0 3	 0,00	0.00	3	0.00	0.00	-	
Habitat Means	3	0.00	0.00	}	0.00	0.0	3				0.00	0.00		0.00	0.00				0.00	0.00	_	0.00	0.00	- 0	
Fisher's Stouffer's	Power Power				r-50% r-50%		P-va P-va			Power Power				r-50% r-50%		P-value P-value		Power Power				r-50% r-50%		P-value P-value	
30196C/30196 31252C/31248 31252C/31252 99826C/33141	2 0 2 0	0.00	0.00	2	0.00	0.00		0		0 0 0 3	0.00	0.00	2 2 0 1	0.00	0.00	- - - o		0 0 0 3	 0.00	0.00	2	0.00	0.00	-	
Habitat Means	S	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				r-50% r-50%		P-va P-va			Power Power				r-50% r-50%		P-value P-value		Power				r-50% r-50%		P-value P-value	
30196C/30196 31252C/31248 31252C/31252 99826C/33141	3 0 3 0	 0.00		. 3	0.00	0.00				0 0 0	 0.00	- -	2 3 0	0.00	0.00	-		0 0 0 1				1.25	1.25	-	
Habitat Means	3	0.00			0.00	0.00)				0.00			0.00	0.00				0.00			0.65	0.65		
Fisher's Stouffer's	Power Power				r-50% r-50%		P-val P-val			Power Power				r-50% r-50%		-value -value		Power Power				r-50% r-50%	F	P-value P-value	

(b) Cenera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.</p>
y Direction of difference between Gabinst nears is different than direction of overall tests.
Only one site pair.

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

			Halosa	ccion	glandifo	orme (A)				Morpholo:	gical (3roup	: Fine I	Filament	ous Reds				Callit	hamni	on pikes	ınum (A)		
Site Pair Mvd	. N	С	se	N	0	SE	CV D	P	N	С	SE	N	-	SE	CV D	P	N	С	SE	N	0	SE	CV D	P
30196C/30196 1 31252C/31248 1 31252C/31252 1 99826C/33141 1	0	0.00	0.00	3	0.00 0.00 0.00	0.00 0.00 	- - - - o		0 0 0 3	0.00	0.00	3 3 0 1	0.00	0.00 0.00 	- - - - o		0	 0.00	0.00	3	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	
	Power Power			Power Power	-50% -50%		-value -value		Power Power			Power Power			-value		Power Power			Power		P	-value	
30196C/30196 2 31252C/31248 2 31252C/31252 2 99826C/33141 2	0	0.00	0.00	2	0.00	0.00 0.00 	- - - o		0 0 0 3	0.00	0.00	2 2 0 1	0.00	0.00	- - - o		0 0 0 3	0.00	0.00	2 2 0	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		
	Power Power				-50% -50%		P-value P-value		Power Power			Power Power			-value		Power Power			Power		p	-value -value	
30196C/30196 3 31252C/31248 3 31252C/31252 3 99826C/33141 3	0 0 1	0.00		3	1.25	1.25 0.00 	- - -		0 0 0	0.00	 	2 3 0 0	2.50 0.00 	2.50 0.00	-		0 0 0 1	 0.00		2 3 0 0	0.00	0.00	-	
Habitat Means		0.00			0.65	0.65				0.00			1.25	1.25				0.00			0.00	0.00		
	Power Power			Power			-value -value		Power Power			Power Power			-value -value		Power Power			Power-		P	-value -value	

x At least one site pair p-value < 0.100 in opposite direction of overall tests. y Direction of difference between habitat means is different than direction of overall tests. 2 Only one site pair.

Table C-5.298. Algal Percent Cover. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared September 1989. (Continued.)

		Poly	eipho:	nia/P	terosipho	nia (A)	(a.)			Morp	hological	Group: C	rustose	Reds				Crusto	Be Cora	lline A	lgae (P)		
Site Pair Mv	a N	С	SE	N	0	SE	CA D	P	N	С	se n	0	SE	CA D	P	N	С	SE	N	0	SE	CV D	P
30196C/30196 1 31252C/31248 1 31252C/31252 1 99826C/33141 1	. 0	0.00	 0.00	3	0.00 0.00 0.00	0.00	_		0 0 0 3	0.00	3 3 0 0.00 1	0.00 0.00 0.00	0.00	- - - 0		0 0 0 3	0.00	0.00	0	0.00	0.00	- 0	
Habitat Means Fisher's Stouffer's	Power Power	0.00	0.00	Powe	0.00 r-50% r-50%		P-value P-value		Power Power	0.00		0.00 er-50% er-50%		P-value P-value		Power Power	0.00		Power-			P-value P-value	
30196C/30196 2 31252C/31248 2 31252C/31252 2 99826C/33141 2	2 0	0.00	0.00	2	0.00	0.00	-		0 0 0 3	 0.00	2 2 0 0.00 1	8.75 0.00 0.00	8.75 0.00 	- - - o		0 0 0 3	0.00	0.00	2 0 1	0.00	0.00 0.00 	- - - - o	
Habitat Means Fisher's Stouffer's	Power	0.00	0.00	Powe	0.00 r-50% r-50%		P-value P-value		Power Power	0.00		2.93 er-50% er-50%		P-value P-value		Power Power	0.00		Power-			P-value P-value	
30196C/30196 3 31252C/31248 3 31252C/31252 3 99826C/33141 3	3 0 3 0	0.00		2 3 0	2.50 0.00 1.25	2.50 0.00 	- - -		0 0 -	0.00	2 3 0 0	6.25 0.00 3.15	6.25 0.00 3.15	- - -		0 0 0 1	0.00	 	3 0	2.50 0.00 1.25	2.50 0.00 1.25	- - -	
Habitat Means Fisher's Stouffer's	Power Power			Powe	r-50% r-50%		P-value P-value		Power Power			er-50% er-50%		P-value P-value		Power Power			Power- Power-			P-value 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 habital means is different than direction of overall tests. z. Only one site pair.

Table C 5.298, Page 7. December 15, 1994

				Petro	celis (P)												 					
Site Pair Mvd	N	С	8E	N	0	SE	CV D	P	N	С	SE	N	O	₽R	CA D	P		 		-	~=	P2 -	-
30196C/30196 1 31252C/31248 1 31252C/31252 1 99826C/33141 1	0	0.00	0.00	3	0.00	0.00	-																
Habitat Means Fisher's Stouffer's	Power Power	0.00	0.00	Power Power			P-value P-value		Power Power			Power- Power-			P-value P-value		Power Power		Power- Power-			P-value P-value	
30196C/30196 2 31252C/31248 2 31252C/31252 2 99826C/33141 2	0	0.00	0.00	2	8.75 0.00 0.00	8.75																	
Habitat Means Fisher's Stouffer's	Power Power	0.00	0.00	Power Power			P-value P-value		Power Power			Power- Power-			P-value P-value		Power Power		Power-			P-value P-value	
30196C/30196 3 31252C/31248 3 31252C/31252 3 99826C/33141 3	0	0.00		3	3.75 0.00 	3.75 0.00	-																
Habitat Means Fisher's Stouffer's	Power Power	0.00		Power Power			P-value P-value		Power Power			Power- Power-			P-value P-value		Power Power		Power-			P-value P-value	

x At least one site pair p-walue < 0.100 in opposite direction of 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. 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.

			Acti	niidae							Balaz	nomorpha							Lot	ttiidae			
Site Pair Mvd N	c	SE	N	0	SE	CA D	P	N	С	SE	N	0	SE	CV D	P	N	С	SE	N	٥	SE	CV D	P
30196C/30196 1 0 31252C/31248 1 0 31252C/31252 1 0 99826C/33141 1 3	0.00	0.00	3 3 0 1	0.00 0.00 0.00	0.00	- - - - 0	 	0 0 0 3	 0.83	 0.83	3 3 0 1	0.00 16.67 5.00	0.00 8.46 	- - - 		0 0 0 3	0.00	0.00	3	0.00 1.67 0.00	0.00 1.67 	- - - - 0	
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 Stouffer's Power			Power-			-value -value		Power Power			ower.			-value -value		Power Power			Power Power			-value -value	
30196C/30196 2 0 31252C/31248 2 0 31252C/31252 2 0 99826C/33141 2 3	 0.00	0.00	2 2 0 1	0.00	0.00	- - - - 0		0 0 0 3	40.00	13.77	2 2 0 1	3.75 70.00 12.50	3.75 27.50 	- - -		0 0 0 3	0.00	0.00	2 2 0 1	0.00 0.00 0.00	0.00 0.00 	- - - - •	
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 Powe: Stouffer's Powe:			Power-			e-value e-value		Power Power			ower			-value -value		Power Power			Power			-value -value	
30196C/30196 3 0 31252C/31248 3 0 31252C/31252 3 0 99826C/33141 3 1	0.00	 	3	0.00	0.00	- - -		0 0 0 1	35.00		2 3 0 0	3.75 59.17 	3.75 29.59 	- - -		0 0 0	0.00		3	0.00	0.00	- - -	
Habitat Means	0.00			0.00	0.00				35.00			31.50	16.70				0.00			0.00	0.00		
Fisher's Power Stouffer's Power			Power-			P-value P-value		Power Power			ower			-value -value		Power Power			Power			-value -value	

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

				34	lytilus							Litt	orinidae							Po	rifera			
Site Pair M	vd N	С	SE	N	0	SE	CV D	P	N	c	SE	N	0	SE	CA D	P	N	С	SE	N	0	SE	ÇV D	P
30196C/30196 31252C/31248 31252C/31252 99826C/33141	1 0	0.00	0.00	3	0.00 0.00 0.00	0.00	-	 	0 0 0 3	0.00	0.00	3 0 1	0.00 1.67 0.00	0.00 1.67 	- - - - 0		0 0 0 3	 0.00	0.00	3	0.00	0.00 0.00 	-	
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 Stouffer's	Power Power				r-50% r-50%		P-value P-value		Power Power				-50% -50%		-value -value		Power Power			Power Power	r-50% r-50%		P-value P-value	
30196C/30196 31252C/31248 31252C/31252 99826C/33141	2 0 2 0	 0.00	0.00	2	0.00 0.00 5.00	0.00 0.00 	-		0 0 0 3	0.83	 0.83	2 2 0 1	0.00 0.00 2.50	0.00 0.00 	-	 	0 0 0 3	0.00	0.00	2	0.00 0.00 0.00	0.00	-	
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 Stouffer's	Power Power				r-50% r-50%		P-valuc P-value		Power Power				-50% -50%		e-value e-value		Power Power				r-50% r-50%		P-value P-value	
30196C/30196 31252C/31248 31252C/31252 99826C/33141	3 0	 2.50		3	0.00 0.00 	0.00 0.00 	-		0 0 0 1	 0.00	 	2 3 0 0	0.00 0.83 	0.00 0.83 	- - -		0 0	0.00		3	0.00 0.00 	0.00 0.00 	-	
Habitat Means		2.50			0.00	0.00				0.00			0.40	0.40				0.00			0.00	0.00		
Fisher's Stouffer's	Power Power				r-50% r-50%		P-value P-value		Power Power				-50% -50%		e-value e-value		Power Power				r-50% r-50%		P-value P-value	

x At least one site pair p-value < 0.150 in opposite direction of overall tests.
y Direction of difference between habitat means)e different than direction of overall tests.
z Only one site pair.

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

		Cn	ideria							Mo	llusca											
-11. 16.4 H	o 02	N7	U 02	,	ת איי	P	N	۲	9R	N	Ω	ЯR	CA D	P	N	C	SE	N	0	SE	ČA D	P
31252C/31248 1 0 31252C/31252 1 0 99826C/33141 1 3		3 0	0.00		- 0		0 0 3	0.00	0.00	3 0 1	0.00	0.00	-									
Habitat Means Fisher's Power Stouffer's Power		Power Power	-50%		value value		Power Power	0.00		Power Power	-50%	I	P-value P-value		Power Power			Power Power			P-value P-value	
30196C/30196 2 0 31252C/31248 2 0 31252C/31252 2 0 99826C/33141 2 3	0.00 0	2 2 0		0.00	- 0		0 0 0 3	0.00	0.00	2	0.00	0.00										
Habitat Means Fisher's Power Stouffer's Power		0.00 Power Power	-50%		value value		Power Power	0.00		Power Power	-50%	1	P-value P-value		Power Power			Power Power			P-value P-value	
30196C/30196 3 0 31252C/31248 3 0 31252C/31252 3 0 99826C/33141 3 1	 0.00	2 3 0			-		0 0	0.00	==		0.00	0.00	-									
Habitat Means Fisher's Power Stouffer's Power		 Power Power	-50%	0.00 P-	value value		Power Power	0.00		Power Power			P-value P-value		Power Power			Power Power			P-value P-value	

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

Table C-5.300. Algal Percent Cover. Substrates. Rodiak/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; 0 = control = oiled; P = probability value; dashos = insufficient data.

				Rock								Mud							1	Sand			
Site Pair Mvd	N C	SE	N	0	SE	CA D	Þ	N	c	SE	N	0	SE	CA D	P	N	С	SE	N	0	SE	CV D	P
00000,00000	0 0 0 3 97.50	- -	_	83.33 76.67 95.00	12.94 12.44 	- - -		0 0 0 3	0.00	0.00	3 0 -	0.00	0.00 0.00 	- - - - 0		0 0 0 3	 0.00	0.00	3	0.00 0.00 0.00	0.00 0.00 	-	
Habitat Means	97.50	1.4	0	85.00	12.65				0.00	0.00		0.00	0.00				0.00	0.00		0.00	0.00		
	ower ower			er-50% er-50%		P-value P-value		Power Power				r-50% r-50%		P-value P-value		Power Power			Power Power			P-value P-value	
30196C/30196 2 31252C/31248 2 31252C/31252 2 99826C/33141 2	0 0 3 14.13	- -	- 2 - 2 - 0 6 1	67.50 28.75 57.50	32.50 26.25 	- - - 		0 0 0 3	 0.00	0.00	2 2 0 1	0.00 0.00 0.00	0.00 0.00 	- - - o		0 0 0 3	0.00	0.00	2	0.00	0.00 0.00 	- - - 0	
Habitat Means	14,20	11.8	0	51.27	29.40				0.00	0.00		0.00	0.00				0.00	0.00		0.00	0.00		
	ower ower			rer-50% rer-50%		P-value P-value		Power Power				r-50% r-50%		P-value P-value		Power Power			Power Power			P-value P-value	
30196C/30196 3 31252C/31248 3 31252C/31252 3 99826C/33141 3	0 0 1 55.00	- -	- 2 - 3 - 0 - 0	0.00 37.50 	0.00 27.50 	- - -		0 0 0 1	 0.00	 	2 3 0 0	0.00 0.00 	0.00 0.00 			0 0 0 1	0.00		3	0.00 0.00 	0.00 0.00 	- - -	
Habitat Means	55.00	-	-	18.75	13.75				0.00			0.00	0.00				0.00			0.00	0.00		
	ower ower			er-50% er-50%		P-value P-value		Power Power				r-50% r-50%		P-value P-value		Power Power			Power Power			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 diffurent than direction of overall tests. z. Only one site pair.

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2 Only one alse pe				Shel.	l Fragment	:8					F1	lamer	ntous Diat	:ome					Zo	stera,	/Phyllosp	adix		
Site Pair M	rd N	С	SE	N	0	SE	CV D	Þ	N	С	SE	N	0	SE	CA D	P	N	С	SE	Ŋ	0	SE	CV D	P
30196C/30196 31252C/31248 31252C/31252 99826C/33141	1 0	0.00	0.06	- 3 - 0	0.00 0.00 0.00	0.00 0.00 	- - - - o		0 0 0 3	0.00	 0.00	3 0 1	0.00 0.00 0.00	0.00 0.00 	- - - - 0		0 0 0 3	 0.00	0.00	3 0 1	0.00	0.00	- - - - 0	
Habitat Means Fisher's Stouffer's	Power Power			Powe	0.00 r-50% r-50%		e-value e-value		Power Power	0.00	0.00		0.00 er-50% er-50%		e-value e-value		Power Power	0.00 		Powe	0.00 \$05-5 \$05-5		P-value P-value	
30196C/30196 31252C/31248 31252C/31252 99826C/33141	2 0 2 0	 0.00	0.06	- 2 - 0	0.00 0.00 0.00	0.00 0.00 	- - - - 0		0 0 0 3	0.00	0.00	2 2 0 1	0.00 0.00 0.00	0.00 0.00 	- - - - 0		0 0 0 3	 0.00	0.00	- 2	0.00	0.00 0.00 	- - - - 0	
Habitat Means Fisher's Stouffer's	Power Power			Powe	0.00 er-50% er-50%		P-value P-value		Power Power	0.00	0.00		0.00 er-50% er-50%		P-value P-value		Power Power	0.00		Powe:	0.00 r-50% r-50%		P-value P-value	
30196C/30196 31252C/31248 31252C/31252 99826C/33141	3 0	0.00		- 3 - 0	0.00 0.00 	0.00	- - -		0 0 0	 0.00		2 3 0 0	0.00 0.00 	0.00	_		0 0 0 1	0.00		- 3 - 0 - 0	0.00	0.00	- - -	
Habitat Means Fisher's Stouffer's	Power Power			Powe	0.00 er-50% er-50%		P-value P-value		Power Power	0.00			0.00 er-50% er-50%		P-value P-value		Power Power	0.00		Powe	0.00 r-50% r-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 mabitat means is different than direction of overall tasts. 2 only one site pair.

Table C-5,300. Algal Percent Cover. Totals and Seasonal Groups. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Cleared September 1989. (Continued.)

					Sand	and Mud							rotal	Substrat	:e							_			
ite Pair	Mvd	N	c	SE	N	0	SE	CV D	P	N	c	SE	N	0	SE	CV D	P	Ŋ	С	SE	N	0	SE	GA D	P
0196C/30196 1252C/31246 1252C/3125 9826C/3314	8 1 2 1	0 0 0 3	0.00	0.00	3	0.00 0.00 0.00	0.00	- - - o		0 0 0 3	97.50	1.44	3 0 1	83.33 76.67 95.00 85.00	12.94 12.44 12.65										
abitat Mea		Power	0.00	0.00	Power	0.00 -50%	0.00	P-value	-	Power	97.50	1.40		r-50%	1	P-value		Power Power		- 	Power Power			P-value P-value	
Fisher's Stouffer'		Power			Power			P-value		Power				r-50% 67.50	32.50			10#61							
0196C/3019 1252C/3124 1252C/3125 9826C/3314	8 2	0	 0.00		ō	0.00	0.00	-		0 0 0 3	 14.17	11.76		28.75	26.25	-									
abitat Mea		,	0.00	0.00		0.00	0.00				14.20	11.80		51.27	29.40						Power	-50%		P-value	5
Fisher's Stouffer'		Power Power			Power			P-value P-value		Power Power				r-50% r-50%		P-value P-value		Power			Power			P-value	
0196C/3019 1252C/3124 1252C/3125 99826C/3314	96 3 18 3 52 3	0	0.00		-	0.00	0.00	-		0 0 0	 55.00		0	0.00 37.50 	0.00 27.50 	-									
abitat Mea			0.00			0.00	0.00				55.00			18.75	13.75			Davion			Power	-50%		P-value	e
Fisher's		Power				r-50% r-50%		P-value P-value		Power Power				er-50% er-50%		P-value P-value		Power Power			Power			P-value	

x At least one site pair p-value < 0.100 in opposite direction of overall tests.</p>
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. Rodiak/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 > ciled; - = control < ciled; o = control = ciled; P = probability value; Power = power to detect given difference; Power-50% = power to detect a 50% difference; dashes = insufficient data.

		_			Algal	Diver	sity In	dex (a)					Alg.	al Taxa)	Richne	■ ■ (b)							Total	Algae			
Sit	Pair	Mvd	N	С	SE	И	0	SE	CV D	P	N	r	SE	N	٨	e F	CA.	ח	ъ_	ע	-	ΔĦ	NT .	^			
94935	C/ 3128	в 1.	3	0.00	0.00	0					3	0.33	0,33	0						3	12.50	12.50					
Habit	at Mea	ns		0.00	0.00			-				0.33	0,33							-	12.50	12.50					
	her's uffer's		ower Ower			Power-			P-value P-value		Power Power			Power-5 Power-5			P-value P-value			Power Power		-	Power-	50%			
	/13.1 C/3128			0.00	0.00	0					0	0.67	0.33	0			-			0	5.83		0		-		
Habita	at Mean	ns		0.00	0.00							0.67	0.33							3	5.80	3.00					
	her's uffer's		ower ower			Power-			P-value P-value		Power Power		•	Power-5			P-value P-value			Power Power		-	Power-	50%			
13.1C/ 949350	/13.1 C/31286	3 (0			-		0			0						0			0	 	-		
Habita	at Mear	ns																		v							
	her's uffer's		wer wer			Power- Power-			P-value P-value		Power Power			Power-5 Power-5			P-value P-value			Power Power	 		Power-			P-value D-value	

x At least on site pair p-value < 0.100 in opposite direction of overall tests, y Direction in difference between habitat rease is different than direction of overall tests 3 Only one size pair.

Page 1. March 16, 1995 Total Invertebrates Perennials (P) Site Pair ¢ SE 0 SE CV D 26 o SE CV D P N SE ก CT IN D 242220101200 1 b.uu 67.50 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-50% --- P-value Power Power-50% --- P-value ---Power Power-50% Stouffer's Power Power-504 P-value --- P-value Power-50% ------ P-value ---Power Power-50% P-value 13.10/13.1 ---94935C/31288 2 0.00 0.00 0 - -- - -94.17 3.00 - - -3 5.83 3.00 - -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% Stouffer's Power . . . Power-50% P-value ---P-value ---Power ---Power-50% P-value Power Power-50% P-value ---13.1C/13.1 . - -0 D 94935C/31288 3 0 0 - ----0 - -- -Ω - -- ---Habitat Means Fisher's Power ---Power-50% --- P-value Power Power-50% --- P-value Power Power-50% Stouffer's P-value ---Power Power-50% --- P-value ---Power Power-50% --- P-value - - -Down

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 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. (Continued.)

				Annu	als (A)							E pheme:	rals (A	B)											
Site Pair M	N bv	C	88	N	٥	SE	CV D	P	И	c	8 2	и	٥	88	ÇV 1	מ	P	И	Ċ	SÈ	И	0	SE	CV D	P
13.1C/13.1 94935C/31288		0.00	0.00	-	::		:		0 3	0.00	0.00	0													
Habitat Means		0.00	0.00							0.00	0.00				-										
Fisher's Stouffer's	Power Power			Power-			P-value P-value	:::	Power Power			Power- Power-			P-value P-value			Power Power			Power Power			P-value P-value	
13.1C/13.1 94935C/31288		0.00	0.00	-			-		0 3	0.00	0.00	0			: :										
Habitat Means		0.00	0.00							0.00	0.00				-										
Fisher's Stouffer's	Power Power			Power- Power-			P-value P-value		Power Power			Power-			P-value P-value			Power Power			Power Power			P-value P-value	
13.1C/13.1 94935C/31288				0			-		0			0													
Habitat Means															-										
Fisher's Stouffer's	Power Power			Power- Power-			P-value P-value		Power Power			Power-			P-value P-value		:::	Power Power			Power Power			P-value P-value	

 κ At least one site pair p-value < 0.100 in opposite direction of overall tests. y Direction of difference between habitat means is different than direction of overall tests. 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; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; P = probability value; Power = power to detect given difference; Power-50% = power to detect a 50% difference; dashes = insufficient data.

					Total C	hloroph	yta				Morp	hologi	cal Gr	oup: B	laded G	reens				Bla	ded Gre	ens (AB) (a)		
Site Pair	Mvd	ı N	c	SE	N	0	SE	CV D	P	N	с	SE	N	٥	SE	CV D	P	N	C	SE	Ħ	٥	SE	CV D	P
13.1C/13.1 94935C/31288	1		0.00	0.00	•		-			0 3	0.00	0.00	0 0					0 3	0.00	0.00	•				
Habitat Mean	ıs		0.00	0.00)		-				0.00	0.00							0.00	0.00			-	-	
Fisher's Stouffer's		Power Power			Power-			P-value P-value		Power Power			Power- Power-			P-value P-value		Power Power			Power- Power-			P-value P-value	
13.1C/13.1 94935C/31288	2		0.00	0.00	•		-	 		0 3	0.00	0.00	_					0 3	0.00	0.00	•				
Habitat Mean	ıs		0.00	0.00	}		-	-			0.00	0.00							0.00	0.00			-	-	
Fisher's Stouffer's		Power Power			Power-			P-value P-value		Power Power			Power-			P-value P-value		Power Power			Power-			P-value P-value	
13.1C/13.1 94935C/31288	3				•					0			0			. <u>-</u>		0 0			0				
Habitat Mean	ıs						-																-	-	
Fisher's Stouffer's		Power Power			Power-		• • • •	P-value P-value		Power Power			Power-			P-value P-value		Power Power			Power-			P-value P-value	

(a) Rorumannia, Monostrome, Diva and Divaria. » 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-5.302. Page 1. Harch 16, 1995

		1	Morpholog	ical G	Lonbi	Fine F	llamento	ous Green	. 6		Cha	etomor	pha/Rh	izoclon	Lum (A)	(a)									
Site Pair	Mv	d N	С	SE	N	0	SE	CV D	P	N	c	SE	Ŋ	0	SE	CV D	P	и	С	SE	И	0	SE	CV D	P
13.1C/13.1 94935C/312		3	0.00	0.00	0			-		0 3	0.00	0.00	-			-		•							
Habitat Me	ans		0.00	0.00							0.00	0.00													
Fisher's Stouffer		Power Power			Power-			P-value P-value		Power Power			Power- Power-			P-value P-value		Power Power			Power Power				
13.1C/13.1 94935C/312		0 3	0.00	0.00	•			-		0 3	0.00	0.00													
Habitat Me	ans		0.00	0.00							0.00	0.00													
Fisher's Stouffer		Power Power			Power-			P-value P-value		Power Power			Power- Power-			P-value P-value		Power Power			Power Power			P-value P-value	
13.1C/13.1 94935C/312		0 0			0			-		0 0						-									
Habitat Me	ans																								
Fisher's Stouffer	' s	Power Power			Power-			P-value P-value		Power Power			Power-			P-value P-value	:::	Power Power			Power Power			P-value P-value	

(a) Genera not separated.

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

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 ciled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; CV = coefficient of variation; Results of statistical differences between means of control and ciled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > ciled; - = control = ciled; P = probability value; Power = power to detect given difference; Power-50% = control = ciled; P = probability value; Power = power to detect given difference; Power-50% = control = ciled; P = probability value; Power = power to detect given difference; Power-50% = control = ciled; P = probability value; Power = power to detect given difference; Power-50% = control = ciled; P = probability value; Power = power to detect given difference; Power-50% = control = ciled; P = probability value; Power = power to detect given difference; Power-50% = control = ciled; P = probability value; Power = power to detect given difference; Power-50% = control = ciled; P = probability value; Power = power to detect given difference; Power-50% = control = ciled; P = probability value; Power = power to detect given difference; Power-50% = control = ciled; P = probability value; Power = power to detect given difference; Power-50% = control = ciled; P = power-50% = cile power to detect a 50% difference; dashes = insufficient data.

				Total I	Phaeophy	ta				Morp	hologi	cal Grov	ıp: B	laded B	rown	•					Alaria	sp. (A	.)		
Site Pair Mv	1 N	c c	82	N	0	SE	CV D	P	N	¢	SE	N	0	SÈ	CV	7 D	P	И	c	83	N	0	82	CV D	P
13.1C/13.1 1 94935C/31288 1		12.50	12.50	•	::				0 3	12.50	12.50	0	::	-				3	0.00	0.00	Ö		-	: :	
Habitat Means		12.50	12.50	ı		-	-			12.50	12.50		~ -	-	-				0.00	0.00			-	-	
Fisher's Stouffer's	Power Power			Power:			P-value P-value		Power Power			Power-5 Power-5			P-va P-va			Power Power			Power-5			P-value P-value	
13.1C/13.1 2 94935C/31288 2		5.83	3.00				· ·		0 3	5.83	3.00	D 0						0 3	0.00	0.00	0 0			: :	
Habitat Means		5.80	3.00	,		-	-			5.80	3.00			-	-				0.00	0.00			-	-	
Fisher's Stouffer's	Power Power			Power Power			P-value P-value		Power Power			Power-5						Power Power			Power-S			P-value P-value	
13.1C/13.1 3 94935C/31288 3	0			0					0			0						0			0		-		
Habitat Means						-	-							-	-								-	•	
Fisher's Stouffer's	Power Power			Power Power			P-value P-value		Power Power			Power-5			P-va P-va			Power Power			Power-S			P-value P-value	

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

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

z Only one wite pair.

Adult Fucus gardneri (P) (> 2cm) Juvenile Fucus gardneri (P) (<= 2cm) Total Fucus gardneri (P) CV D SR P SE CV D P C SE N 0 C 0 CV D P Site Pair Mvd N C -----13.1C/13.1 0.00 12.50 12.50 0.00 94935C/31288 1 3 12.50 0.00 0.00 12.50 12.50 Habitat Means 12.50 12.50 Power-50% --- P-value ---Power-50% --- P-value Power Power Power-50% P-value Fisher's Power ---... Power-50% ---P-value ---Power P-value Power-50% P-value Power-50% Stouffer's Power 13.10/13.1 2 n 0.00 0.00 -----3.00 5.83 3.00 5.83 0 94935C/31288 2 3 0.00 0.00 3.00 3.00 5.80 Habitat Means Power-50% --- P-value Power-50% P-value Power Power-50% --- P-value Power ---Fisher's Power Power-50% P-value Power-50% P-value Power-50% P-value Power ... Stouffer's Power 0 13.10/13.1 --- -94935C/31288 3 0 . . ---Habitat Means --- P-value Power-50% Power-50% --- P-value - - -Power ---Power . . . Power-50% --- P-value Fisher's Power --- P-value Power-50% Power-50% --- P-value ---Power ------ P-value ---Power Stouffer's 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-5.303. Page 1, March 16, 1995

Table C-5.303. Algal Percent Cover. Phaeophyta. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Cleared September 1989. (Continued.)

				Fu	cus St	ipes (P)) (a)			М	orphologi	cal Gr	coup: (Coarse	Filamen	ous B	rown	•		му	elophy	rcus/Scy	tosipho	on (A)	(a)	
Site Pair	Mvd	N	С	SE	N	٥	SE	CV D	P	N	c	81	N	0	88	cv	D	P	И	С	SE	И	0	SE	CV I	P
13.1C/13.1 94935C/31288	3 1 8 1		0.00	0.00						0 3	0.00	0.00							0 3	0.00	0.00	o o		-		
Habitat Mear	ns		0.00	0.00							0.00	0.00								0.00	0.00			-	•	
Fisher's Stouffer's		Power Power			Power Power			P-value P-value		Power Power			Power-			P-valu P-valu			Power Power			Power-			P-value P-value	
13.1C/13.1 94935C/31286			0.00	0.00	-					0 3	0.00	0.00	_						3	0.00	0.00	0	::	-		
Habitat Mean	ns		0.00	0.00							0.00	0.00	•							0.00	0.00			-	-	
Fisher's Stouffer's		Power Power			Power Power			P-value P-value		Power Power			Power-			P-valu P-valu			Power Power			Power-			P-value P-value	
13.1C/13.1 94935C/3128	3 8 3				0			. -		0			. 0						0			0		-	-	
Habitat Mean	ns							-																-	-	
Fisher's Stouffer's		Power Power			Power			P-value P-value		Power Power			Power-			P-valu P-valu			Power Power			Power- Power-			P-value P-value	

(4) Dead Fugue plants of stipes without bildes.

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

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

		Mo	rpholog	ical G	roup:	Fine	Filamen	tous Bro	WTL S		Fi	ne Fil	amentous	Brown	as (AR)	(b)	 					
Site Pair Mv	αи		С	SE	И	0	SE	ev i	P	И	¢	SE	N	٥	SE	_	CA E	P	-	 		-	 CV
13.1C/13.1 1 94935C/31288 1	0 3	(0.00	0.00	•			:		3	0.00	0.00	-				-						
Habitat Means			0.00	0.00							0.00	0.00			-	-							
Fisher's Stouffer's	Pow Pow				Power Power					Power Power			Power-50 Power-50				value value		Power Power		Power Power		P-value P-value
13.1C/13.1 2 94935C/31200 2		(0.00	0.00	0					3	0.00	0.00	0			-							
Habitat Means			0.00	0.00							0.00	0.00			-	-							
Fisher's Stouffer's	Pow				Power Power					Power Power			Power-56 Power-56				value value		Power Power		Power Power		P-value P-value
13.1C/13.1 3 94935C/31288 3					0 0					0			0										
Habitat Means															-	-							
Fisher's Stouffer's	Pow Pow				Power Power					Power Power			Power-5				value value		Power Power		Power Power		P-value P-value

(b) Elachista, Ectocarpus and Pilayella.

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

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; C = 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 R	thodophy	yta				Мо	rpholog	ical G	roup: 1	Bladed :	Reds					Gigart	inaceae	Group	(P) (a	a)	
Site Pair	Mvd	N	С	BE	N	٥	SE	CV D	P	N	c	8E	N	٥	SE	cv	D	P	N	C	SE	N	0	SE	CV D	P
13.1C/13.1 94935C/31288	1		0.00	0.00	•		-			0 3	0.00	0.00	0						0	0.00	0.00	•			 	
Habitat Mean	ıs		0.00	0.00			-	-			0.00	0.00								0.00	0.00			-	-	
Fisher's Stouffer's		Power Power			Power-			P-value P-value		Power Power			Power Power			P-valu P-valu			Power Power			Power- Power-			P-value P-value	
13.1C/13.1 94935C/31288	2		0.00	0.00			-			a 3	0.00	0.00							0 3	0.00	0.00	•				
Habitat Mean	s		0.00	0.00			-	-			0.00	0.00								0.00	0.00			-	-	
Fisher's Stouffer's		Power Power			Power-			P-value P-value		Power Power			Power Power			P-valu P-valu			Power Power			Power- Power-			P-value P-value	
13.1C/13.1 94935C/31288	3				0					0 0			0 0						0			0				
Habitat Mean	ıs						-	-																-	-	
Fisher's Stouffer's		Power Power			Power-			P-value P-value		Power Power			Power Power			P-valu P-valu			Power Power			Power-			P-value P-value	

(a) Chondrus, Iridaes, Mastocarpus and Rhodoglossum.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.</p>
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.30e. Page 1. March 16. 1995

					Porphys	ra sp. ((A)			1	Morpholog	ical G	roup:	Coarse	Filame	ntous R	eds				Glo:	lopelti	furca	ta (A)		
Site Pair	Mv	и в	c	SE	N	٥	SE	מ עים	Þ	N	c	SE	N	0	SE	CV I	P	_ 7		c	SE	Ж	٥	SE	CV D	Þ
13.1C/13.1 94935C/3128		0 3	0.00	0.00	0 0		-	-		0 3	0.00	0.00	-					(0.00	0.00	v				
Habitat Mea	ans		0.00	0.00							0.00	0.00								0.00	0.00			-	-	
Fisher's Stouffer'	8	Power Power			Power-			P-value P-value		Power Power			Power-			P-value P-value			wer wer			Power- Power-			P-value P-value	
13.1C/13.1 94935C/3128			0.00	0.00	-					0 3	0.00	0.00	0			-		(0.00	0.00	•				
Habitat Mea	ans		0.00	0.00				-			0.00	0.00								0.00	0.00			-	-	
Fisher's Stouffer'	g	Power Power			Power-			P-value P-value		Power Power			Power-			P-value P-value			wer			Power- Power-			P-value P-value	
13.1C/13.1 94935C/3128										0			0					(•				
Habitat Mea	ans																							-	-	
Fisher's Stouffer'	g	Power Power			Power-			P-value P-value		Power Power			Power-			P-value P-value			wer wer			Power- Power-			P-value P-value	

x At least one mite pair p-value < 0.100 in opposite direction of overall tests.</p>
y Direction of difference between habitet means is different than direction of overall tests.
z only one mite pair.

Table C-5.304. Algal Percent Cover, Rhodophyta, Kodiak/Alaska Peninsula, Coarse Textured, May 1991. Cleared September 1989. (Continued.)

			Neorhoo	iomela/	Rhodomal	a (P) {	a)				Odon	thalia	flocco	sa (P)				Mo	rpholog	ical Gr	oup: 8	laccate	Reds	
Site Pair M	N DV	c	SE	N	0	SE	CV D	P	N	с	SE	N	0	82	CV D	P	N	С	SE	N	٥	82	cv p	P
13.1C/13.1 94935C/31288	1 0 1 3	0.00	0.00	-					0 3	0.00	0.00	•					3 0	0.00	0.00	•				
Habitat Means	1	0.00	0.00)						0.00	0.00							0.00	0.00	ı		-	-	
Fisher's Stouffer's	Power Power			Power Power			P-value P-value		Power Power			Power-5			P-value P-value		Power Power			Power- Power-			P-value P-value	
13.1C/13.1 94935C/31288	2 0 2 3	0.00	0.00	-			<u>.</u> -		0 3	0.00	0.00						0 3	0.00	0.00	0				
Habitat Means	;	0.00	0.00	0						0.00	0.00							0.00	0.00	ı		-	-	
Fisher's Stouffer's	Power Power			Power Power			P-value P-value		Power Power			Power-S			P-value P-value		Power Power			Power- Power-			P-value P-value	
13.1C/13.1 94935C/31288	3 0 3 0			-			-		0			0 0					0			0				
Habitat Means	1			-																		-	*	
Fisher's Stouffer's	Powe:			Power Power			P-value P-value		Power Power			Power-S			P-value P-value		Power Power			Power-			P-value 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 then direction of overall tests. I Only one site pair.

Table C-5.304. Page 3. Herch 16, 1995

			Halos	accion	glandif	orme (A	.)			Morpholo	gical	Group:	Fine	Filament	ous Re	le .		Po	lysipho	nia/Pter	rosipho	onia (A	.) (a)	
Site Pair Mvd	N	¢	SE	N	۰	SK	CV D	P	N	c	SE	N	٥	SE	CV D	P	и	С	SE	N	٥	SE	CV D	P
13.1C/13.1 1 94935C/31288 1		0.00	0.00	•					0 3	0.00	0.00						Ť	0.00	0.00				<u> </u>	
Habitat Means		0.00	0.00				-			0.00	0.00							0.00	0.00			-	-	
	Power Power			Power-			P-value P-value		Power Power			Power-5 Power-5			P-value P-value					Power-			P-value P-value	
13.1C/13.1 2 94935C/31288 2		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	1		-	-	
	Power Power			Power-			P-value P-value		Power Power			Power-5			P-value P-value		10101			Power-			P-value P-value	
13.1C/13.1 3 94935C/31288 3	0 0			-					0			0 0					•			•			: :	
Habitat Means							_															-	-	
	Power Power			Power-			P-value P-value		Power Power			Power-5			P-value P-value					Power-S			P-value 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-5.305. 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.

				Balar	nomorph	a						Myti	lus								Litto	rinidae	•		
Site Pair Mvd	N	С	SE	N	0	SE	פע ס	P	N	c	SE	N	0	SE	¢V	Þ	P	N	C	SE	N	٥	SÈ	CV D	P
13.1C/13.1 1 94935C/31288 1		0.00	0.00	0		-			0 3	0.00	0.00	•	::					3 0	0.00	0.00	-				
Habitat Means		0.00	0.00			-	-			0.00	0.00								0.00	0.00			-	-	
	Power Power			Power Power			P-value P-value		Power Power			Power-50 Power-50			P-valı P-valı			Power Power			Power-			P-value P-value	
13.1C/13.1 2 94935C/31288 2		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			-	-	
	Power Power			Power Power			P-value P-value		Power Power			Power-50 Power-50			P-val			Power Power			Power-			P-value P-value	
13.1C/13.1 3 94935C/31288 3	Ο Ω			0		-	 		0			0			-			0			-				
Habitat Means						-	-																-	-	
Fisher's Stouffer's	Power Power			Power Power			P-value P-value		Power Power			Power-50 Power-50			P-val			Power Power			Power- Power-			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 behinal means is different than direction of overall tests.
x Only one site pair.

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 ciled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = ciled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > ciled; - = control < ciled; c = control = ciled; P = probability value; Power = power to detect given difference; Power-50% = power to detect a 50% difference; dashes = insufficient data.

				1	Rock)	Mud								8	and			
Site Pair Mv	a N	С	SE	N	0	SE	מע ס	P	м	С	SE	N	٥	SE	CV I	0	P	N	C	82	N	0	SE	CV D	P
13.1C/13.1 1 94935C/31208 1	0	87.50	12.50	0 0					0 3	0.00	0.00	0		-				0 3	0.00	0.00	ō			:	
Habitat Means		87.50	12.50				-			0.00	0.00			-	-				0.00	0.00	,				
Fisher's Stouffer's	Power Power			Power Power			P-value P-value		Power Power			Power- Power-			P-value P-value			Power Power			Power-			P-value P-value	
13.1C/13.1 2 94935C/31288 2		94.17	3.00	-	::				0 3	0.00	0.00	0	::					0 3	0.00	0.00	-			-	
Habitat Means		94.20	3.00				-			0.00	0.00			-	-				D,0D	0.00	,				
Fisher's Stouffer's	Power Power			Power Power			P-value P-value		Power Power			Power- Power-			P-valu P-valu			Power Power			Power-			P-value P-value	
13.1C/13.1 3 94935C/31288 3				0			: :		0			0						0			- 0 - 0			-	
Habitat Means						-	-							-	-										
Fisher's Stouffer's	Power Power			Power Power			P-value P-value		Power Power			Power- Power-			P-valu P-valu			Power Power			Power-			P-value P-value	

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

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

Only one site pair.

Table C-5.306. Page 1. March 16, 1995

Only one site	,				Shell 1	Pragmen	ts						Fi	amen	ous Dia	toms							Sand a	and Mud	ι		
Site Pair	Mud .	.,		SE	N	0	SE	CV	D	p -	N	С	SE	N	0	SE	ĊV	D	P	N	С	88	N	0	SE	CA D	P
13.1C/13.1 94935C/31288	1 (8 1 3		0.00	0.00							0	0.00	0.00	-		-				0 3	0.00	0.00	•	::			
Habitat Mean	ns		0.00	0.00								0.00	0.00			-	-				0.00	0.00			-	-	
Fisher's Stouffer's		ower ower			Power-			P-valı P-valı			ower			Power Power			P-val P-val			Power Power			Power-			P-value P-value	
13.1C/13.1 94935C/3126			0.00	0.00							0 3	0.00	0,00		::					0 3	0.00	0.00					
Habitat Mean	ns		0.00	0.00								0.00	0.00			-	-				0.00	0.00			-	-	
Fisher's Stouffer's		ower			Power-			P-val			Power			Power Power			P-val P-val			Power Power			Power-			P-value P-value	
13.1C/13.1 94935C/3128	3 6				0			-			0		:-							0	::		0				
Kabitat Mea	ns															-	-								-	-	
Fisher's Stouffer'		ower			Power-			P-val P-val			ower ower			Power Power			P-val P-val			Power Power			Power-			P-value P-value	

x. At least one site pair p-value < 0.130 in opposite direction of overall tests. y Direction of difference between habitat means is different than direction of overall tests. Only one site pair.

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

Power

Power

--- P-value

--- P-value

				Total	Substra	te													
ite Pair Mv	M b	C	BE	N	٥	SE	CV D	Þ				N	r.	AR	N	n	Я¥	מישה	b
4935C/31288 1	3	87.50	12.50	0		-													
abitat Means		87.50	12.50																
Fisher's Stouffer's	Power Power			Power-					Power Power	 Power-50% Power-50%	P-val	Power Power			Power			P-value P-value	
3.1C/13.1 2 4935C/31288 2		94.17	3.00	0															
abitat Means		94.20	3.00			-	-												
Fisher's Stouffer's	Power Power			Power-			P-value P-value	:::	Power Power	 Power-50% Power-50%	P-val	Power Power			Power			P-value P-value	
3.1C/13.1 3 4935C/31288 3				0															
abitat Means						_													

Power-50%

Power-50%

--- P-value

Power

Power

Power-50%

Power-50%

at least one site pair p-value < 0.100 in opposite direction of overall tests.</p>
y Direction of difference between habitat means is different than direction of overall tests.
3 Only one wide pair.

Power-50%

Power-50%

Fisher's

Stouffer's Power

Power

Table C-5.306, Page 3, March 16, 1995

--- P-value

--- P-value

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 ciled site pairs. MVD = meter vertical drop; N = sample size; C - control mean; O = colled mean; CV - coefficient of variation; SE = standard error; D : direction of difference; + = control > ciled; - = control < ciled; O = control = ciled; P = probability value; dashes = insufficient data.

				Algal	Diver	sity I	idex (a)						Alga	1 Tax	ka Richne	(d) sae							Tot	tal Alga	ė			
Site Pair	Mvć	N	С	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	CV	, D	Þ	N	С	ŠE	N	0	SE	cv	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1	6 6 6 6	0.00 0.01 0.03 0.00 0.00	0.00 0.01 0.03 0.00 0.00	6 6 6	0.00 0.05 0.00 0.00	0.00 0.05 0.00 0.00	- - -	- + 0	1.000 0.459 0.363 1.000 1.000	6 6 6 6	0.83 1.17 0.83 0.00 0.50	0.17 0.17 0.31 0.00 0.22	6 6	0.40 0.83 0.00 0.00 0.80	0.24 0.31 0.00 0.00 0.20	-	+ + + - 0	0.166 0.363 0.042 1.000 0.353	6 6 6 6	25.42 25.00 9.17 0.00 12.50	12.92 15.59 4.77 0.00 10.55	6 6	8.00 21.25 0.00 0.00 25.00	6.82 13.83 0.00 0.00 13.21	-	+ 0	0.191 0.672 0.054 1.000 0.347
Habitat Mea	ins		0.01	0.01		0.01	0.01		+			0.67	0.17		0.41	0.15		+			14.42	8.78		10.86	6.76		4	
Fisher's Stouffer'	s	Power Power			Power Power			P-val		0.620 y 0.572	Power Power	0.539			r-50% r-50%		P-va P-va		0.057 0.171	Power Power				2-50% 2-50%		P-val P-val		0.103 0.256
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2	5 4 6 6	0.00 0.09 0.00 0.00 0.02	0.00 0.04 0.00 0.00 0.02	6 5 6	0.02 0.17 0.00 0.06 0.02	0.02 0.06 0.06 0.06	- -	- 0 -	0.374 0.364 1.000 0.363 0.855	5 4 6 6	1.00 2,00 1.00 0.33 1.00	0.00 0.41 0.00 0.21 0.26	6 5 6	0.80 1.67 0.60 0.83 1.25	0.37 0.42 0.24 0.48 0.25	-		0.621 0.604 0.178 0.361 0.527	5 4 6 6 6	69.00 86.25 38.75 7.08 38.33	16.59 5.54 13.19 6.14 15.98	6 5 6	47.00 35.42 30.50 14.58 67.50	21.06 15,21 19.82 8.33 21.58	-	÷ -	0.434 0.036 0.660 0.478 0.281
Habitat Mea	ir.s		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 Stouffer'	s	Power Power	0.082 0.161		Power Power			P-val		0.242 0.102	Power Power	0.188 0.097			r-50% r-50%			alue alue	0.391 0.574	Power Power				r-50% r-50%				0.165 0.291
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3	3 4 5 6 5	0.09 0.14 0.16 0.07 0.02	0.05 0.09 0.05 0.03 0.02	4 3 6	0.25 0.00 0.08 0.01 0.14	0.10 0.00 0.00 0.00) – 3 – . –	-	0.296 0.230 0.410 0.149	3 4 5 6 5	1.67 1.75 2.00 1.50 1.20	0.33 0.48 0.32 0.43 0.20	4 3 6	2.60 0.75 1.33 1.00 2.00	0.60 0.25 0.33 0.26	-	- +	0.307 0.114 0.220 0.341	3 4 5 6 5	100.00 79.38 79.00 57.08 75.00	0.00 13.40 12.11 17.58 13.49	4 3 6	81.00 1.88 60.83 57.08 100.00	12.88 0.63 28.66 17.68	-	-	0.193 0.001 0.578 0.976
Habitat Mea	ıns		0.10	0.05		0.10	0.0	i	•			1.62	0.35		1.54	0.36		+			78.10	11.32		60.16	14.98		÷	
Fisher's Stouffer'	' ន	Power Power	0.386		Power Power			P-val		0.112 y 0.033	Power Power				r-50% r-50%		P-va P-va	aluo elue	0.081	Power Power				==-50% ==-50%				0.002 0.018

(a) Modified Shannon index.(b) Taxa richmess calculations are explained in the methods.

 κ At least one site pair p-value < 0.100 in opposite direction of overall tests. y Direction of difference between habital means is different than direction of or 2 hJy one site pair.

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0112, 0110 0101				To	otal	Inverteb	rates								Rock								Pere	nnials (P)			
Bite Pair	Mvd :	N	С	SE	N	0	SE	cv	Q	p	N	С	82	N	0	Se	CV	D	P	N	c	SE	N	0	SE		CV D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6 6	0.00 0.00 3.33 0.83 15.00	0.00 0.00 1.67 0.53 9.55	6 6	34.00 5.00 2.50 0.83 12.00	19.3 2.6 1.1 0.5 5.6	5 - 2 - 3 -	-	0.122 0.048 0.966 1.000 0.881	6 6 6	74.58 75.00 87.50 99.17 72.50	12.92 15.59 4.56 0.53 11.29	6 6 6	58.00 73.75 97.50 99.17 63.00	18.13 13.16 1.11 0.51 9.73	5 - 2 - 3 -		0.549 0.984 0.078 1.000 0.421	6 6 6	25.42 25.00 8.75 0.00 12.50	12.92 15.59 4.69 0.00 10.55	6 6 6	8.00 16.67 0.00 0.00 25.00	6.82 9.52 0.00 0.00	2	- · · · · · · · · · · · · · · · · · · ·	0.191 0.509 0.054 1.000 0.347
Habitat Mea	ns		3.82	2.36		10.86	5.8	3	-			81.76	8.98		78.30	8.5	2	•			14.34	8.76		9.94	5.90)	-	
Fisher's Stouffer'		ower	0.378			er-50% er-50%				0.076 0.110	Fower Fower				r-50% r-50%				0.572× 0.559	Power Power	0.12			r-50% r-50%				0.089 0.217
1825C/1424 153C/453 501C/601 598C/598 1522C/1522	2 2 2 2 2	4 6 6	4.00 2.50 5.83 12.92 37.92	2.32 2.50 5.35 6.07 16.04	б 5 б	7.50 7.08 7.50 7.92 7.50	6.89 2.77 3.10 3.11 7.50	7 – 5 – 9 –	- - +	0.356	5 4 6 6 6	27.00 11.25 55.42 69.17 23.75	16.63 3.15 12.41 11.47 8.13	6 5 6 4	45.50 56.67 62.00 77.50 18.12	18.34 13.64 19.11 6.54 15.66	1 – 3 – 3 – 5 –	-	0.509 0.034 0.825 0.596 0.476	5 4 6 6	69.00 86.25 38.75 7.08 37.92	16.59 5.54 13.19 6.14 16.04	6 5 6 4	47.00 30.00 30.50 11.67 67.50	21.06 14.13 19.82 6.04 21.58	3 2 4 8		0.434 0.020 0.660 0.548 0.276
Habitat Mea	ns		12.62	6.46	i	7.50	4.7	2	-			37.34	10.36		51.96	14.6	5	-			47.82	11.48		37.34	16.52	2	*	
Fisher's Stouffer'		ower	0.072 0.052			er-50% er-50%				0.459 y 0.553	Power Power				r-50% r-50%	0.919	P-val		0.111	Power Power	0.19 0.11			r-50% r-50%			value value	0.116 0.225
1825C/1424 153C/453 501C/601 598C/598 L522C/1522	3 3 3 3	4 5 6	0.00 0.00 0.50 6.67 7.50	0.00 0.00 0.50 3.14 5.00	3	0.00 2.50 1.67 4.17 0.00	0.00 1.7 1.6 3.2	7 – 7 – 7 –	-	1.000 0.204 0.554 0.436	3 4 5 6 5	0.00 20.63 20.50 26.25 17.50	0.00 13.40 11.63 14.83 9.55	4 3 6	19.00 95.63 35.00 22.92 0.00	12.88 2.13 24.62 13.53	3 – 2 – 2 –	-	0.193 0.002 0.661 0.832	3 4 5 6 5	98.33 73.75 37.50 40.83 75.00	1.67 14.60 16.96 16.49 13.49	4 3 6	71.50 1.88 40.83 56.25 100.00	16.29 0.63 29.80 17.29	3 0 9	- + - + 	0.256 0.002 0.895 0.576
Habitat Mea	ns		2.94	1.72		1.68	1,70)	-			16.98	9.88		34.50	13.2	7	-			65.08	12.66		54.10	16.00	0	+	
Fisher's Stouffer'	P	ower	0.030 0.046			er-50% er-50%				0.342 y 0.417	Power Power				r-50% r-50%		P-val		0.004	Power Power				er-50% er-50%				0.011 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 C-5.307, Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. August 1993. Cleared May 1990. (Continued.)

					Annu	als (A)								Ephen	erals (A	E)												
Site Pair	Mvd	N	c	SE	N	0	SE	ĊV	Đ	P	N	С	SE	N	0	SE	CA	ם	P	N	c	SE	N	0	SE	ĊΛ	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1 1 1	6 6 6 6	0.00 0.00 0.42 0.00 0.00	0.00 0.00 0.42 0.00 0.00	6 6	0.00 4.58 0.00 0.00	0.00 4.58 0.00 0.00 0.00	-	-	1.000 0.363 0.363 1.000 1.000	6 6 6 6	0.00 0.00 0.42 0.00 0.00	0.00 0.00 0.42 0.00 0.00	6 6	0.00 4.58 0.00 0.00	0.00 4.58 0.00 0.00 0.00	-	+	1.000 0.363 0.363 1.000 1,000									
Mabitat Mea		Power	0.08	0.08	Power		0.92	P~va_	uė	0.632 0.393	Power Power	0.08	0.08		0.92 r-50% r-50%				0.632	Power Fower			Power Power			P-valu P-valu		
Stouffer' 4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2	5 4 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 5.42 0.00 2.92 0.00	0.00 3.56 0.00 2.92 0.00	-	0	1.000 0.110 1.000 0.363 0.363	5 4 6 6	0.00 0.00 0.00 0.00 0.42	0.00 0.00 0.00 0.00 0.42	6 5 6 4	0.00 5.00 0.00 2.92 0.00	0.00 3.16 0.00 2.92 0.00	- - -	0	1.000 0.104 1.000 0.363 0.363									
Habitat Mea Fisher's Stouffer'		Power Power	0.006	0.08	Power Power			P-val		0.260 0.086	Power Power	0.08		Powe	r-50% r-50%			ue	0.253 0.084	Power Power		 	Power Power			P-valı P-valı		
1825C/1424 153C/453 501C/601 598C/598 1522C/1522	3 3 3 3	3 4 5	1.67 5.62 41.50 16.25 0.00	1.67 4.13 18.83 14.77 0.00	4 3 6	9.50 0.00 20.00 0.83 0.00	4.57 0.00 20.00 0.83	-	+	0.311 0.212 0.484 0.296	3 4 5 6 5	1.67 0.00 41.50 16.25 0.00	1.67 0.00 18.83 14.77 0.00	4 3 6 1	0.00 0.00 20.00 0.83 0.00	0,00 0,00 20.00 0.83	- - -	-	0.423 1.000 0.484 0.296									
Habitat Mea Fisher's Stouffer		Power Power	13.02 0.151		Power Power		6.35 0.212	P-va	iue lue	0.176	Power Power	0.068 0.176		Powe	4.16 er-50% er-50%		P-val		0.193 0.134	Power Power			Power Power	c-50% c-50%		P-val		

x At less, 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. 2 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; C v coefficient of variation; SS = standard error; D = direction of difference; · = control > oiled; - · control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

			ı	otal Cl	loropl	nyta				Morph	ologi	cal (Group: Bi	aded Gr	еепв					Blac	ded Gr	eens (AE) (a)			
Site Pair Mv	rd N	С	SE	N	0	SE	ÇA D	P	N	С	SE	N	0	SE	CV D		P	N	С	ge	N	o	SE	cv	D	P
4825C/1424 1 453C/453 1 601C/601 1 598C/598 1 1522C/1522 1	6 6 6	0.J0 0.J0 0.12 0.J0 0.J0	0.00 0.00 0.42 0.00 0.00	6 6 6	0.00 4.58 0.00 0.00	0.00 4.58 0.00 0.00 0.00	- 0 - + - 0 - 0	1.000 0.363 0.363 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0	1 1 1	L.000 L.000 L.000 L.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Means		0.08	0.08		0.92	0.92	-			0.00	0.00		0.00	0.00	0				0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Power Power			Power-			P-value P-value		Power Power				r-50% r-50%		e-value e-value).732).500	Power Power			Power Power			P-valu P-valu		0.732 0.500
601C/601 2 598C/598 2	5 4 6 6 6	0.30 0.30 0.30 0.30 0.30	0.00 0.00 0.00 0.00	6 5 6	0.00 5.00 0.00 2.92 0.00	0.00 3.16 0.00 2.92 0.00	- 0 - 0 	1.000 0.104 1.000 0.363 0.363	5 4 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.42 0.00	0.00 0.00 0.00 0.42 0.00	- 0 - 0 - 0	1 0	1.000 1.000 1.000 0.363	5 4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.42 0.00	0.00 0.00 0.00 0.42 0.00	-	0	1.000 1.000 1.000 0.363 1.000
Habitat Means		0.08	0.08		1.58	1.22	-			0.00	0.00		0.08	0.08	-				0.00	0.00		0.08	0.08		-	
Fisher's Stouffer's	Power Power			Power-			P-value P-value	0.253 0.084	Power Power				r-50%		-value -value		0.536 0.240	Power Power			Power Power			P-valu P-valu		0.536 0.240
4825C/1424 3 453C/453 3 601C/601 3 598C/598 3 1522C/1522 3	5	1.57 4.37 41.50 16.25 0.30	1.67 4.37 18.83 14.77 0.00	3 6	2.50 0.00 20.00 0.83 0.00	2.50 0.00 20.00 0.83		0.980 0.391 0.484 0.296	3 4 5 6 5	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 - 0 - 0 - 0	1	.000	3 4 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000
Rabitat Means		12.78	7.94		4.66	5.83	+			0.00	0.00		0.00	0.00	0				0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Power Power			Power-			P-value P-value	0.187	Power Power				r-50% r-50%		e-value -value		0.698	Power Power			Power Power			P-valu P-valu		0.698 0.500

(a) Korumannia, Monostroma, 11/va and Ulvaria, x At least one sice pair p-value < 0.100 in opposite direction of overall tests, y direction of difference between habitat means is different than direction of overall tests, 2 Only one site pair.

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

			Morpholog	jical (roup:	Fine P	Filament	ous G	resi	18			ACI	cosig	phonia sp.	(A)					Cha	etomor	pha/R	hizocloni	ium (A)	(a)		
Site Pair	Mvd	N N	С	SE	N	0	SE	CV	D	Þ	N	С	SE	N	0	SE	CV	Ď	Р	N	С	SE	N	0	SE	C/	V D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1 1 1	6 6 6 6	0.00 0.00 0.42 0.00 0.00	0.00 0.00 0.42 0.00	6 6 6	0.00 4.58 0.00 0.00	0.00 4.58 0.00 0.00	3 - 3 -		1.000 0.363 0.363 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	56665	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	- 0	1.000 1.000 1.000 1.000 1.000
Habitat Mean	ns		0.08	0.08		0.92	0.92	2	-			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	5	Power Power			Power Power			P-val P-val		0.632 0.393	Power Power				er-50% er-50%		P-vai P-vai		0.732	Power Power				r-50%	1			0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	4 6	0.00 0.00 0.00 0.00 0.42	0.00 0.00 0.00 0.00	6 5 6	0.00 5.00 0.00 2.50 0.00	0.00 3.16 0.00 2.50	- } -	- o	1.000 0.104 1.000 0.363 0.363	5 4 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	5 4 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		- 0	1.000 1.000 1.000 1.000
Habitat Mean	25		0.08	0.08		1.50	1.14	1	-			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		O	
Fisher's Stouffer's	5	Power Power	0.008		Power			P-val		0.253 0.084	Power Power				er-50% er-50%		P-val P-val		0.732	Power Power				r-50% r-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3		1.67 4.37 41.50 16.25 0.00	1.67 4.37 18.83 14.77 0.00	4 3 6 1	2.50 0.00 20.00 0.83 0.00	2.50 0.00 20.00 0.83) -) - 3 -	+	0.980 0.391 0.484 0.296	3 4 5 6 5	0.00 4.37 0.00 0.00 0.00	0.00 4.37 0.00 0.00 0.00	5 4 3 6	2.50 0.00 0.00 0.00 0.00	2.50 0.00 0.00 0.00	-	+ 0 0 0	0.374 0.391 1.000 1.000	3 4 5 6 5	0.00 0.00 0.00 0.00 0.00	0.00	4 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00		- 0	1.000 1.000 1.000 1.000
Habitat Mean	ns		12.78	7.94		4.66	5.83	3	+			0.88	0.88		0.50	0.63		-			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	9	Power Power	0.132		Power Power		0.132	P-va P-va		0.187	Power Power				er-50% er-50%		P-val P-val		0.585 y 0.633	Power				r-50% r-50%				0.698

⁽e) Coners not apparated. At least one site pair p-value < 0.100 in opposite direction of overall tests. Y Direction of difference between habitat means is different than direction of overall tests. 2 Only one site pair.

Table C-5.308. Algal Percent Cover. Chlorophyta. Prince William Sound. Sheltered Rocky. August 1993. Cleared May 1990. (Continued.)

				cı	Lador	phora sp.	(AE)						υ	loth	rix ap. (AE)						U	говро	га вр. (я	rr i			
Site Pair	Mvd	N	c	SE	N	0	SE	CA	D	P	N	С	SE	N	0	SE	CV I	D	P	N	С	SE	N	0	SE	ςv	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1	6 6 6	0.00 0.00 0.42 0.00 0.00	0.00 0.00 0.42 0.00 0.00	6 6 6	0.00 4.58 0.00 0.00	0.00 4.58 0.00 0.00 0.00	- - - -	+	1.000 0.363 0.363 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- !	0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mea	ns		0.08	0.08		0.92	0.92		-			0.00	0.00		0.00	0.00		Q			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	3	Power				er-50%				0.632 0.393	Power Power				er-50% er-50%		P-valu P-valu		0.732 0.500	Power Power				r-50% r-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2	5 4 6 6 6	0.00 0.00 0.00 0.00 0.42	0.00 0.00 0.00 0.00	5 6	0.00 5.00 0.00 2.50 0.00	0.00 3.16 0.00 2.50 0.00	-	-	1.000 0.104 1.000 0.363 0.363	5 4 6 6	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	1.000 1.000 1.000 1.000	5 4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0	1.000 1.000 1.000 1.000 1.000
Habitat Mea	ır.s		0.08	0.08	3	1.50	1.14		-			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		О	
Fisher's Stouffer'	8	Power Power	0.007			ver-50% ver-50%		P-val P-val		0.253 0.084	Power Power				er-50%		P-valu P-valu		0.732 0.500	Dome. Dome.				r-50% r-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3	3 4 5 6 5	1.67 0.00 41.50 16.25 0.00	1.67 0.00 18.83 14.77 0.00	3 6	0.00 0.00 20.00 0.83 0.00	0.00 0.00 20.00 0.83	-	0 + + 0	0.423 1.000 0.484 0.296	3 4 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	3 4 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6 1	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000
Habitat Mea	ırs		11.90	7.06	5	4.16	5.20		+			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	S	Power Power	0.073 0.183			ver-50% ver-50%		P-val P-val		0.193 0.134	Power Power				er-50% er-50%		P-valu P-valu		0.698	Power Power				r-50% r-50%				0.698 0.500

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

Table C-5.308, Page 3, December 15, 1994

r Only one site	pair.																										
		Mo	rphologic	al Gr	oup:	Tubular	and Sa	cate	Gre	611B		B1:	idingi	a/Ent	eromorpha	(AE) (a)										
ite Pair	Mvđ	N	С	SE	N	0	SE	CV	D	P	Ŋ	С	SE	N	0	SE	CV :	D	P	N	C	SE	N	0	SE	CV D	P
825C/1424 53C/453 601C/601 698C/598	1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0 - 0 -	0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- :	0	1.000 1.000 1.000 1.000 1.000	-							
abitat Mean	ns		0.00	0.00		0.00	0.0	Û	0			0.00	0.00		0.00	0.00		o									
Fisher's Stouffer's		Power Power				er-50% er-50%				0.732 0.500	Power Power				r-50% r-50%		-valu -valu		0.732 0.500	Power Power			Power Power			value value	
825C/1424 53C/453 601C/601 698C/598 522C/1522	2 2 2	5 4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0	0 - 0 -	0	1.000 1.000 1.000 1.000 1.000	5 4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- -	0	1.000 1.000 1.000 1.000								
Habitat Mea	ıns		0.00	0.00	1	0.00	0.0	0	0			0.00	0.00		0.00	0.00		0									
Fisher's Stouffer'	5	Power Power				er-50% er-50%				0.732 0.500	Power Power				r-50% r-50%		P-valu P-valu		0.732 0.500	Power Power			Power			-value -value	
825C/1424 153C/453 501C/601 598C/598 1522C/1522	3	3 4 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	3 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0	0 - 0 - 0 -	0	1.000 1.000 1.000 1.000	3 4 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000								
Habitat Mea	ıns		0.00	0.00)	0.00	0.0	0	0			0.00	0.00		0.00	0.00		0									
Fisher's	e	Power				3r-50% 2r-50%				0.698 0.500	Power Power				r-50% r-50%		P-valu P-valu		0.698 0.500	Power Power			Power			-value -value	

⁽a) Genera not separated.

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

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 ciled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = coled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; | = control > coled; - = control < coled; control = cont

					Total	Phaeoph	yta					Mor	phologi	cal (Group: 1	Bladed Br	OWILB					Tota	1 Fuc	us gardn	eri (P)			
Site Pair	Mvd	ĸ	С	SE	Ŋ	0	SE	CV	D	P	N	С	SE	N	0	SE	CV D)	P	N	С	SE	N	0	SE	c	V D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1	6 6 6 6	25.42 24.58 8.75 0.00 12.50	12.92 15.19 4.69 0.00 10.55	6 6	8.00 16.67 0.00 0.00 23.50	6.82 9.52 0.00 0.00	- -	+ + 0 -	0.191 0.539 0.054 1.000 0.499	6 6 6 6	25.42 24.58 8.75 0.00 12.50	12.92 15.19 4.69 0.00 10.55	6 6	8.00 16.67 0.00 0.00 23.50	6.82 9.52 0.00 0.00 13.77	- + - + - + - 0	0	0.191 0.539 0.054 0.000 0.499	6 6 6 6	25.42 24.58 8.75 0.00 12.50	12.92 15.19 4.69 0.00 10.55	6 6 5	8.00 16.67 0.00 0.00 23.50	6.82 9.52 0.00 0.00 13.77	2 D D	- + - + - 0 	0.191 0.539 0.054 1.000 0.499
Habitat Mea	ıns		14.26	8.68		9.64	6.02		+			14.26	8.68		9.64	6.02	+				14.26	8.68		9.64	6.02	2		
Fisher's Stouffer'		Power Power	0.146			c-50% c-50%		P-val P-val		0.086	Power Power	0.14			r-50% r-50%		P-value P-value		0.086	Power Power	0.14			r-50%				0.086 0.208
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	6	69.00 81.25 38.75 7.08 37.92	16.59 6.33 13.19 6.14 16.04	6 5 6	46.50 20.42 30.50 11.67 66.87	21.06 14.43 19.82 6.04 21.54	- -	-	0.427 0.014 0.660 0.548 0.284	5 4 6 6	69.00 81.25 38.75 7.08 37.92	16.59 6.33 13.19 6.14 16.04	6 5 6	46.50 20.00 30.50 11.67 66.87	21.06 14.53 19.82 6.04 21.54	- ! - ! - !	- 0	0.427 0.014 0.660 0.548 0.284	5 4 6 6	69.00 81.25 38.75 7.08 37.92	16.59 6.33 13.19 6.14 16.04	6 5 6	46.50 20.00 30.50 11.67 66.87	21.06 14.53 19.82 6.04 21.54	3 2 4	- • - • - •	0.427 0.014 0.660 0.548 0.284
Habitat Mea	ns		46.82	11.64		35.20	16.56	;				46.82	11.64		35.12	16.58	-				46.82	11.64		35.12	16.58	8		
Fisher's Stouffer'		Power Power	0.168			r-50% r-50%		P-val P-val		0.095 0.205	Power Power	0.16			er-50% er-50%		?-value		0.096 0.205	Power Power	0.16			er-50% er-50%				0.096 0.205
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	4 5 6	70.00 63.13 33.00 38.75 74.50	27.54 21.68 13.63 16.92 13.84	4 3 6	65.00 1.88 40.83 56.25 90.00	17.41 0.63 29.80 17.29	- - -	-	0.732 0.055 0.672 0.471	3 4 5 6 5	70.00 61.88 33.00 38.75 74.50	27.54 22.81 13.63 16.92 13.84	4 3 6	65.00 1.88 40.83 56.25 90.00	17.41 0.63 29.80 17.29		- (0.732 0.096 0.672 0.471	3 4 5 6 5	70.00 61.88 33.00 38.75 74.50	27,54 22,81 13,63 16,92 13,84	3 6 -	65.00 1.88 40.83 56.25 90.00	17.41 0.63 29.80 17.29	3 0 9	- :	0.732 0.096 0.672 0.471
Habitat Mea	ans		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 Stouffer		Power	0.232 0.140			r-50% r-50%				0.227 0.338	Power				er-50% er-50%		P-value P-value		0.306	Power Power	0.12			er-50%	0.538 G.617			0.306

x At least one site pair p-value < 0.100 in 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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z Only one site			Ad	lult Fu	cus a	ardnerí	(P) (>	2cm)				Juver	ile F	ucus 9	gardneri	(P) (<=	2cm)					Fu	cus S	tipes (P)	(a)			
Site Pair	Mvd	- N	С	SE	N	0	se		v D	P	N	С	SE	N	٥	SE	CV	D	P	N	c	SE	N	0	SE	ĊΛ	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6 6 6	25.42 24.58 8.75 0.00 12.50	12.92 15.19 4.69 0.00 10.55	6 6	0.50 15.83 0.00 0.00 23.50	0.9 8.7 0.0 0.1	77 00 00	- + - + 0 	0.043 0.511 0.054 1.000 0.499	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	7.50 0.83 0.00 0.00	6.32 0.83 0.00 0.00	- - - -	0	0.233 0.363 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0 0 0	1.000 1.000 1.000 1.000 1.000
Habitat Mea	ns		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	
Fisher's Stouffer'		Power				r-50% r-50%	0.471			0.034 0.175	Power Power	0.000			r-50% r-50%		P-val P-val		0.294 0.259	Power Power				r-50% r-50%		P-val P-val		0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2	4	67.50 81.25 37.92 7.08 37.50	17.01 6.33 13.52 6.14 16.23	6 5 6	46.50 19.58 30.00 11.67 66.87	21.1 14.1 19.1 6.1	64 70 04		0.469 0.014 0.679 0.548 0.271	5 4 6 6 6	1.50 0.00 0.83 0.00 0.42	1.00 0.00 0.83 0.00	6 5 6	0.00 0,42 0.50 0.00	0.00 0.42 0.50 0.00	-	-	0.186 0.363 0.911 1.000 0.363	5 4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mea	ns		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	
Fisher's Stouffer'		Power				er-50% er-50%	0.826 0.888			0,103 0.212	Power Power	0.018			r-50% r-50%		P-val P-val		0.319 0.533	Power Power				r-50% r-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3	3 4 5 6 5	70.00 61.88 32.50 38.75 74.50	27.54 22.81 13.65 16.92 13.84	4 3 6	64.00 1.25 40.83 56.25 90.00	17. 0. 29. 17.	72 80	- + 	0.707 0.085 0.662 0.471	3 4 5 6 5	0.00 0.00 0.50 0.00	0.00 0.00 0.50 0.00	4 3 6	1.00 0.63 0.00 0.00	1.00 0.63 0.00 0.00	- - - -	- - 0 0	0.374 0.391 0.374 1.000	3 4 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0 0	1.000 1.000 1.000 1.000
Habitat Mea	ins		55.54	18.94		50.48	16.	23	4			0.10	0.10		0.32	0.40		-			0.00	0.00	l	0.00	0.00		0	
Fisher's Stouffer'	s	Power				er-50% er-50%	0-565 0.644		value value	0.285 0.378	Power Power				r-50% r-50%				0.394 0.352	Power Power				r-50% r-50%				0.698 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.
 x Only one site pair.

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

			1	Petalo	nia/Pu	nctaria	(AB) (b))			Mo	orphologic	cal Gr	oup:	Coarse E	11ament	ous B	row	ns.			Di	ctyosi	phon sp.	(A)			
Site Pair	Mvd	N	c	SE	N	0	SE	cv	Ď	P	N	С	SE	N	0	SE	CV	Q	P	N	С	SE	N	0	SE	CV I	>	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c		1.000 1.000 1.000 1.000
Habitat Mea	ກຮ		0.00	0.00		0.00	0.00		٥			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		>	
Fisher's Stouffer'	5	Power Power			Power			-valı		0.732 0.500	Power Power				r-50% r-50%		-val:		0.732 0.500	Power Power			Power			-value		0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522			0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000	5 4 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	5 4 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0		1.000 1.000 1.000 1.000 1.000
Habitat Mea	ทธ		0.00	0.00		0.00	0.00		¢			0.00	0.00		0.00	0.00		٥			0.00	0.00		0.00	0.00	(>	
Fisher's Stouffer'	\$	Power Power			Power Power			-valı -valı		0.732 0.500	Power Power				r-50% r-50%		-val		0.732 0.500	Power Power			Power Power			-value		0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522		5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	3 4 5 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	00000	1.000 1.000 1.000 1.000	3 4 5 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00			1.000 1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00		0.00	0.00		Э			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00	C	•	
Fisher's Stouffer'	9	Power Power			Power Power			e-valu e-valu		0.69B 0.500	Power Power				r-50% r-50%		-val: -val:		0.698 0.500	Power Power			Power Power			e-value e-value		0.698 0.500

(b) Genera not separated.

x At least one site pair p-value < 0.100 μ 0 opposite direction of overall tests. y Direction or difference between babilat greens is different than direction of overall tests. 2 Only one site pair.

Table C-5.3Gy, Page 3. December 15, 1994

Only one 6.04			My	elophy	cus/S	cytosipho	n (A) (a)			,	orphologi	cal G	roup:	Fine F	ilamento	ous E	TOWE	Lgi		Fi	ne Fil	amento	s Brown	s (AR)	(b)	
Site Pair	Mvd	ı N		SE	N	0	SE	CV	D	P	N	c	9E	N	0	SE	ĊV	b	P	N	С	SE	N	0	SE	CV D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522		6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	_	0 0 0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00	- c	1.000
Habitat Mea	ns		0.00	0.00		0.00	0.00		O			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	c	
Fisher's Stouffer'	s	Power Power				-50% -50%		P-valı P-valı		0.732 0.500	Power Power				r-50% r-50%		P-va P-va		0.732 0.500	Power Power			Power				0.732
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2	5 4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		0 0	1.000 1.000 1.000 1.000	5 4 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0	1.000 1.000 1.000 1.000	5 4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0	1.000 1.000 1.000
labitat Mea	ns		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	c	
Fisher's Stouffer'	ŝ	Power Power			Power	-50% -50%		P-valı P-valı		0.732 0.500	Power Power				r-50% r-50%		P-va P-va		0.732 0.500	Power Power			Power			P-value P-value	
4825C/1424 453C/453 501C/601 598C/598 1522C/1522	3	3 4 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		0	1.000 1.000 1.000 1.000	3 4 5 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0 0	1.000 1.000 1.000 1.000	3 4 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0 - 0	1.000 1.000 1.000
Habitat Mea	пş		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	c	
Fisher's Stouffer'	s	Power Power			Power	-50% -50%		P-valı P-valı		0.698	Power Power				r-50% r-50%		P-va P-va		0.698 0.500	Power Power			Power Power			-value -value	0.698 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. y only one site pair.

Table C-5.309. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. August 1993. Cleared May 1990. (Continued.)

			Morph	nologi	cal	Group: Sac	cate I	rowns				I	eathe	ia/C	olpomenia	(A) (a))					sora	ntnei	W niacide	B (A)			
Site Pair	Mvđ	N	С	SE	N	0	SE	СV	D	P	N	с	SE	Ŋ	0	SE	cv	D	P	N	С	SE	N	0	SE	ĊΛ	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) –) –	0 0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5665	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000 1.000 1.000
Habitat Mea	ıns		0.00	0.00		0.00	0.00)	O			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Scouffer'	S	Power Power				rer-50% rer-50%		P-val P-val		0.732 0.500	Power Power				r-50% r-50%		P-val P-val		0.732	Power Power				r-50% r-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2	5 4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	б 5 6	0.00 0.42 0.00 0.00	0.00 0.47 0.00 0.00	2 - 0 -	0	1.000 0.363 1.000 1.000	5 4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 5 6 4	0.00 0.42 0.00 0.00	0.00 0.42 0.00 0.00	-	_	1.000 0.363 1.000 1.000	5 4 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0	1.000 1.000 1.000 1.000
Habitat Mea	ins		0.00	0.00		0.08	0.0	3	-			0.00	0.00		0.08	0.08		-			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	s	Power Power				ver-50% ver-50%		P-val P-val		0.536 0.315	Power Power				r-50% r-50%		P-val P-val		0.536 0.315	Power Power				r-50% r-50%		-val		0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3	3 4 5 6	0.00 1.25 0.00 0.00	0.00 1.25 0.00 0.00	3 6	0.00 0.00 0.00 0.00	0.00	0 - 0 - 0 -	+	1.000 0.391 1.000 1.000	3 4 5 6 5	0.00 1.25 0.00 0.00	0.00 1.25 0.00 0.00	3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0 + 0 0 0	1.000 0.391 1.000 1.000	3 4 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	3 6 1	0.00 0.00 0.00 0.00	0.00	-	0 0	1.000 1.000 1.000 1.000
Habitat Mea	ans		0.26	0.26	i	0.00	0.0)	+			0.26	0.26		0.00	0.00		+			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	' 5	Power Power				wer-50% wer-50%		P-val P-val		0.492 0.321	Power Power				r-50% r-50%				0.492	Power Power				r-50% r-50%				0.698

(a) Genera not separated.

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

			Morph	ologic	al Gr	oup: Cru	stose I	Browns	ı				Ralfs:	la/Pe	etroderma	(P) (a)										_		
Site Pair	Mvd	ı N	С	SE	N	0	ge	cv	D	P	N	С	SE	N	0	SE	cv	D	P	N	С	SE	N	0	SE		CV D	P
825C/1424 53C/453 01C/601 98C/598 522C/1522	1 1 1	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000									
abitat Mea	ıns		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0										
Fisher's Stouffer'	3	Power Power			Power					0.732 0.500	Power Power				er-50% er-50%		e-val		0.732 0.500	Power Power			Power Power				value value	
825C/1424 53C/453 01C/601 98C/598 522C/1522	2	5 4 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000	5 4 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0000	1.000 1.000 1.000 1.000									
labitat Mea	ır.s		0.00	0.00		0.00	0.00		O			0.00	0.00		0.00	0.00		0										
Fisher's Stouffer'	s	Power Power			Power Power					0.732 0.500	Power Power				er-50% er-50%		P-val P-val		0.732 0.500	Power Power			Power Power				value value	
825C/1424 153C/453 501C/601 598C/598 1522C/1522	3	3 4 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	3 4 5 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000									
Habitat Mea	ıns		0.00	0.00	l	0.00	0.00		0			0.00	0.00		0.00	0.00		0										
Fisher's	s	Power Power			Power	r-50% r-50%				0.698	Power Power				er-50% er-50%		P-val P-val		0.698 0.500	Power Power			Power Power				value value	

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

Table C-5.310. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. Cleared May 1990.

Rosults of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; O = control = oiled; P = probability value; dashes = insufficient data.

				-	Tota1	Rhodoph	yta					Mor	pholog	ical	Group: H	Bladed R	abe						Bangi	авр. (A	3)			
Site Pair	Mvd	ĸ	С	SE	N	0	SE	CA	D	P	N	c	SE	N	0	SE	CV :	D	P	N	С	SE	N	0	SE	CA	D	p
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1	6 6 6 6	0.00 0.42 0.00 0.00	0.00 0.42 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00 1.50	0.00 0.00 0.00 1.50	-	0	1.000 0.363 1.000 1.000 0.374	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 1	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	0	1.000 1.000 1.000 1.000 1.000
Habitat Mea	ns		0.08	0.08		0.30	0.30		+			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		٥	
Fisher's Stouffer'	s	Power Power				c-50% c-50%		P-val P-val		0.630 y 0.383	Power Power				r-50% r-50%		e-valu e-valu		0.732 0.500	Power Power			Power Power					0.732
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2	5 4 6 6	0.00 5.00 0.00 0.00	0.00 2.28 0.00 0.00	6 5 6	0.50 10.00 0.00 0.00 0.63	0.50 8.16 0.00 0.00 0.63	- -	0	0.374 0.978 1.000 1.000 0.391	5 4 6 6	0.00 1.88 0.00 0.00	0.00 1.88 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	-	0	1.000 0.391 1.000 1.000	5 4 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	0 0	1.000 1.000 1.000 1.000
Habitat Mea	ns		1.00	0.46		2.22	1.86		-			0.38	0.38		0.00	0.00		+			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'		Power Power	0.002			r-50% r-50%				0.372 0.376	Power Power				er-50% er-50%		-valu -valu		0.550 0.325	Power Power			Power Power					0.732
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3	4 5 6	28.33 11.87 4.50 2.08 0.50	28.33 8.25 3.91 1.64 0.50	4 3 6	13.50 0.00 0.00 0.00 10.00	5,84 0,00 0,00 0,00	- 1 -	+ + + + -	0.845 0.205 0.240 0.204	3 4 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	1.50 0.00 0.00 0.00 0.00	1.50 0.00 0.00 0.00	-	0	0.374 1.000 1.000 1.000	3 4 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6 1	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000 1.000
Habitat Mea	ns		9.46	8.52		4.70	1.45	,	+			0.00	0.00		0.30	0.38		-			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	's	Power Power				r-50% r-50%		P-val P-val		0.057 0.023	Power Power				er-50% er-50%		P-valu P-valu		0.483	Power Power			Power Power					0.698 0.500

x At least one site pair p-ve)us < 0.100 in opposite direction of overall tests.</p>
y Direction of difference netween habitat means is different them direction of overall tests.
2 Only one site pair.

Table C-5.310. Page 1. Denerows 1s, 1994

				Gigart	inace	me Group	(P) (a)					P	almar	ia spp. ((A)						Phy	ycodry	rs riggii	(A)			
Site Pair	Mvd	N	c	SE	N	٥	SE	cv	D	P	N	С	SE	N	0	SE	CV	D	P	N	С	Se	N	٥	SŁ	CV	D	P
825C/1424 153C/453 101C/601 198C/598	1 1 1 1	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	00000	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000
Mabitat Mea	ins		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	s	Power Power			Power					0.732 0.500	Power Power				r-50% r - 50%		P-val P-val		0.732 0.500	Power Power			Power			P-val P-val		0.732
4825C/1424 453C/453 501C/601 598C/598	2	4	0.00 1.88 0.00 0.00	0.00 1.88 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- -	0	1.000 0.391 1.000 1.000	5 4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000 1.000	5 4 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	0	1.000 1.000 1.000 1.000 1.000
Habitat Mea	ns		0.38	0.38		0.00	0.00		+			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'		Power			Power					0.550 0.325	Power Power				r-50% r-50%		P~val P-val		0.732 0.500	Power Power			Powe:			P-val P-val		0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	3 4 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- -	0	1.000 1.000 1.000 1.000	3 4 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	3	1.50 0.00 0.00 0.00 0.00	1.50 0.00 0.00 0.00	-	0 0	0.374 1.000 2.000 1.000	3 4 5 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6 1	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	0 0 0	1.000 1.000 1.000 1.000
Habitat Mea	ans		0.00	0.00		0.00	0.00	1	0			0.00	0.00		0.30	0.38		-			0.00	0.00		0.00	0.00		0	
Fisher's		Power			Power					0.698 0.500	Power Power				r-50% r-50%		P-val P-val		0.483 0.450	Somer Somer			Powe:	r-50% r-50%				0.698

(a) CHORGIAS, Itidaes, Mastucarpus and Micologiossus.

x At least one site pair p-value < 0.700 in opposite direction of 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. (Continued.)

				_		(1							Rho	iymeni	a pertusa	L (A)					T	okidad	endro	n kurile	nsie (A))		
			c	SE	N	o sp. (1	9ž	CA	D	P	N	С	SE	N	0	SE	CV	D	P	N	С	SE	N	0	83	CA	D	P
ite Pair	Mvd	N				_				1 000	6	0.00	0.00	5	0.00	0.00	-	0	1.000	6	0.00	0.00		0.00	0.00	-		1.000
825C/1424	1		0.00	0.00		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
53C/453	1		0.00	0.00		0.00	0.00			1.000	6	0.00	0.00	6	0.00	0.00	-	-	1.000	6	0.00	0.00	6 6	0.00	0.00	_		1.000
01C/601	1		0.00	0.00		0.00	0.00			1.000	6	0.00	0.00	6	0.00	0.00	-		1.000	6	0.00	0.00	5	0.00	0.00	_		
98C/598	1	6	0.00	0.00		0.00	0.00		o o	1.000	6	0.00	0.00	5	0.00	0.00	-	0	1.000	6			3					
522C/1522		0	0.00	0.00		0.00	0.00	}	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
abitat Mea	ns		0.00	0.00							_			Power	519		P-va:	ine	0.732	Power			Power					0.732
Fisher's		Power			Power			P-val		0.732	Power Power			Power			P-va.		0.500	Power			Power	-50%		sv-9	1 ue	0.500
Stouffer'	9	Power			Power	-50%		P-val	ue	0.500	LOWCI								1.000		0.00	0.00	5	0.00	0.00	_	0	1.000
825C/1424	2	5	0.00	0.00	5	0.00	0.00) -		1.000	5	0.00	0.00		0.00	0.00	-	_	1.000	1	0.00	0.00		0.00	0.00	-		1.000
53C/453	2		0.00	0.00		0.00	0.00			1.000	4	0.00	0.00	6	0.00	0.00	_	0		6	0.00	0.00	5	0.00	0.00		0	1.000
01C/601	2		0.00	0.00	5	0.00	0.0			1.000	6	0.00	0.00	5	0.00	0.00	_	o	1.000	6	0.00	0.00		0.00	0.00	-	9	1.000
98C/598	2		0.00	0.00		0,00	0.0			1.000	6	0.00	0.00		0.00	0.00	-		1,000	6	0.00	0.00	4	0.00	0.00	-	0	1.000
522C/1522	2	6	0.00	0.00	4	0.00	0.0) -	0	1,000	6			•							0.00	0.00		0.00	0.00		0	
abita: Mea	n ¢		0.00	0.00		0.00	0.0)	0			0.00	0.00		0.00	0.00		0			0.00	0.00					, .	0.722
					Power	EOB		P-va	116	0.732	Power			Powe:			P-va		0.732	Power			Power					0.732 0.500
Fisher's		Power			Power			P-va		0.500	Power			Powe:	r-50%		P-va	lue	0.500	Power			Power	-30%		_ v u.	140	
Stouffer'	S	Power			LOWCI							0.00	0.00	5	0.00	0.00	-	0	1.000	3	0.00	0.00	5	0.00	0.00		0	1.000
825C/1424	3	3	0.00	0.00		0.00	0.0		-	1.000	3	0.00	0.00		0.00	0.00			1.000	4	0.00	0.00		0.00	0.00		~	1.000
53C/453	3		0.00	0.00		0.00	0.0			1.000		0.00	0.00		0.00	0.00		0	1.000	5	0.00	0.00		0.00	0.00		-	1.000
01C/601	3		0.00	0.00		0.00	0.0		0	1.000	6	0.00	0.00		0.00	0.00	- (0	1.000	6	0.00	0.00		0.00	0.00		0	1.000
98C/598	3	6	0.00	0.00		0.00	0.0		0		5	0.00	0.00		0.00		-	0		5	0.00	0.00	÷	0.00			U	
.52 2 C/1522	3	5	0.00									0.00	0.00		0.00	0.00)	0			0.00	0.00		0.00	0.00)	0	
Habitat Mea	ns		0.00	0.00)	0.00	0.0	U	0			0.00	0.00						0.500				Dowo	r-50%		P-va	lbe	0.698
Ti show(a		Power			Power	-50%		P-va	lue	0.698	Power				r-50%				0.698	Power Power				c-50%				0.500
Fisher's Stouffer'		Power			Power			P-va	lue	0.500	Power			Powe	r-50%		r-va	Tue	0.300	TOWEL								

 \mathbf{x} At least one site pair p-value < 0.100 in opposite direction of overall tests. y Cirection of difference between habital means is different than direction of overall tests. 2 Only one site pair.

Table C-5.318. Page 3. December 15, 1994

Only one site	,				waus.	Costes	Filamen	tous	Red	В		A:	rticula	te C	oralline	Algae (A)					Crypt	osiph	onia wood	lii (A)			
			Morpholog	SE	N N	0	SE	cv	D	P	N	С	SE	N	0	SE	cv	D	P	N	С	ŝe	N	0	SE	ÇV	D	P
ite Pair	Mvd	N	· ·	55				-				0.00	0.00		0.00	0.00	_	٥	1,000	6	0.00	0.00	5	0.00	0.00	-	-	1.000
825C/1424	1	6	0.00	0.00	5	0.00	0.00	-		1.000	6	0.00	0.00	6	0.00	0.00		٥	1.000	6	0.00	0.00		0.00	0.00	-		1.000
53C/453	1	6	0.00	0.00	6	0.00	0.00	-		1.000	6	0.00	0.00	6	0.00	0.00	_	0	1.000	6	0.00	0.00	6	0.00	0.00	-		1.000
1C/601	1	6	0.00	0.00	6	0.00	0.00	-		1.000	6		0.00	6	0.00	0.00	_	ō	1.000	6	0.00	0.00	6	0.00	0.00	-		1,000
9BC/598	ī		0.00	0.00	6	0.00	0.00	-		1.000	6	0.00	0.00	-	0.00	0.00	_	ō	1.000	6	0.00	0.00	5	0.00	0.00	-	0	1.000
522C/1522		6	0.00	0.00	5	1.50	1.50	-	-	0.374	6	0.00	0.00	5	0.00			v	1.000	•				0.00	0.00		0	
			0.00	0.00		0.30	0.30		-			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00			-	
abitat Mea	ns		0.00	0.00		0.50					_			D	r-50%		P-va	1110	0.732	Power			Powe:	r-50%				0.732
Fisher's		Power			Power			2-val		0.542	Power				r-50%		P-va		0.500	Power			Powe:	r-50%		P-val	ue	0.500
Stouffer'	8	Power			Power	r-50%	1	P-val	ue	0.427	Power			Powe	1-304		- +						_					1.000
BCOGEFCE		20.00					0.00		_	1.000	5	0.00	0.00	5	0.00	0.00	-	0	1.000	5	0.00	0.00		0.00	0.00	-		
825C/1424	2	5	0.00	0.00	5	0.00	0.00	-		0.838	4	0.00	0.00		0.00	0.00	-	0	1.000	4	0.00	0.00		0.00	0.00	-		1.000
53C/453	2	4	3.13	1.57	6	10.00	8.16	-			5	0.00	0.00		0.00	0.00		0	1.000	6	0.00	0.00		0.00	0.00	-		1,000
01C/601	2	6	0.00	0.00	5	0.00	0.00	-		1.000	6	0.00	0.00		0.00	0.00		0	1.000	6	0.00	0.00	6	0.00	0.00	-		1.000
98C/598		6	0.00	0.00	6	0.00	0.00	-		1.000	6				0.00	0.00		_	1.000	6	0.00	0.00	4	0.00	0.00	-	0	1.000
522C/1522		6	0.00	0.00	4	0.63	0.63	-	-	0.391	6	0.00	0.00	4	0.00			•						0.00	0.00		0	
	_	•				2.12	1.76		_			0.00	0.00		0.00	0.00		0			0,00	0.00		0.00	0.00		O	
abitat Mce	ans		0.62	0.32		2.12	1.70					•					P-va	1	0.732	Power			Powe	r-50%		P-val	ue	0.732
		Power	0.000	1	Power	r-50%	0.029	P-val	ue	0.517	Power				er-50%				0.500	Power		_		r-50%		P-val	ue	0.500
Fisher's Stouffer'	, .	Power	0.000		Power			P-val		0.387	Power			Powe	er-50%		P-va	ilue	0.500	FOWEI								
Stoniler.	S	LOWET	0.000										0.00	6	0.00	0.00		. 0	1.000	3	0.00	0.00	5	0.00	0.00			1.000
825C/1424	3	3	28.33	28.33	5	6.50	2.81		+	0.556	3	0.00			0.00	0.00		. 0		4	0.00	0.00	4	0.00	0.00			1.000
53C/453	- ā	4	11.87	8.25	4	0.00	0.00	-	+	0.205	4	0.00	0.00		0.00	0.00		. 0	1.000		0.00	0.00	3	0.00	0.00	-	0	1.000
01C/601		5	4.50	3.91		0.00	0.00	-	+	0.240	5	0.00	0.00					-	1.000		0.00	0.00		0.00	0.00	-	0	1.000
		6	2.08	1.64		0.00	0.00	-	-	0.204	6	0.00	0.00		0.00	0.00		-		-	0.00	0.00		0.00		-	0	
98C/598	3		0.50	0.50		10.00			-		5	0.00	0.00	1	0.00			. 0		Ş	0.00							
522C/1522	3	9	0.50									0.00	0.00		0.00	0.00)	o			0.00	0.00		0.00	0.00		0	
abitat Mea	ans		9.46	8.52		3.30	0.70		+			0.00	0.00							_			Darra	r-50%		D-val	116	0.698
						- = 0.0		Dava 1	116	0.043	Power			Powe	er-50%			ılue						r-50%				0.500
Fisher's		Power		-		r-50% r-50%				0,020	Power				er-50%		P-va	alue	0.500	Power		-	Powe	1-204		E-val	ue	3.500

x At least one site pair 9-value < 0.100 in opposite direction of overall tests.

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

z Only one site pair.

rable C-5.310. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. Cleared May 1990. (Continued.)

			Bndo	cladia	muricat	a (P)					Gloid	opelt.	s furcat	a (A)						Neorbod	omela	/Rhodome	la (P) (a)		
Site Pair Mvd 1	N	c	SE	N	0	SE	CV D	P	N	С	SE	N	0	SE	CV	מ	P	N	С	SE	N	0	SZ	¢	v D	P
453C/453 1 601C/601 1 598C/598 1	6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0	1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 1.50		- 0 - 0 - 0 - 0	1.000
Habitat Means		0.00	0.00		0.00	0.00	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.30	0.30)	-	
	ower			Power			P-value P-value		Power Power			Power Power			-valu -valu		0.732 0.500	Power Power				r-50% r-50%				0.542 0.427
4825C/1424 2 453C/453 2 601C/601 2 598C/598 2 1522C/1522 2	4 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0 - 0	1.000 1.000 1.000	5 4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	5 4 6 6	0.00 3.13 0.00 0.00	0.00 1.57 0.00 0.00	б 5 6	0.00 10.00 0.00 0.00 0.63	0.00 8.16 0.00 0.00 0.63	;))	- 0 - 0 - 0	
Habitat Means		0.00	0.00		0.00	0.00	0			0.00	0.00		0.00	0.00		0			0.62	0.32		2.12	1.76	5	-	
	ower			Power Power			P-value P-value		Power Power			Power Power			-valu -valu		0.732 0.500	Power Power	0.00			r-50% r-50%			alue alue	0.517 0.387
453C/453 3 601C/601 3 598C/598 3 1522C/1522 3	5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 4 3 6 1	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- 0 - 0 - 0	1.000 1.000 1.000	3 4 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0	1.000	3 4 5 6 5	28.33 21.87 4.50 2.08 0.50	28.33 8.25 3.91 1.64 0.50	3 6	6.50 0.00 0.00 0.00 10.00	2.81 0.00 0.00 0.00)	- :	0.556 0.205 0.240 0.204
Habitat Means		0.00	0.00		0.00	0.00	0			0.00	0.00		0.00	0.00		0			9.46	8.52		3.30	0.70		+	
	ower			Power Power			P-valuë P-value		Power Power			Power Power		I	-valu -valu		0.698 0.500	Power Power				r-50% r-50%			alue	0.043 0.020

 (a) Genera not separated.
 x At least one site pair p value < 0.100 in opposite direction of overall tests.
 y Direction of difference between habital means by different than direction of overall tests.
 z only one site pair. Table C 5.310. Page 5. December 15, 1994

				000	nthali	a flocços	a (P)						Ptilot	a/Ne	optilota	(P) (b)					Mor	pholog:	ical (Froup: S	accate	Red	s	
D=	eu	N	С	SE	N	0	SE	ÇV	D	P	N	¢	SE	N	0	ge	CA	D	P	N	¢	SE	N	0	SE	ď	ZV D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1	6 6 6 6	0.00 0.00 0.00 0.00	0.00	6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	00000	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		- 0 - 0 - 0 - 0	1.000 1.000 1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00)	0.00	0.00		Q			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer'	s	Power Power				c-50% c-50%		P-val P-val		0.732	Power Power				r-50% r-50%		P-val: P-val:		0.732 0.500	Power Power				r-50% r-50%				0.732
4825C/1424 453C/453 601C/601 598C/598 L522C/1522	2	5 4 6 6	0.00 0.00 0.00 0.00	0.00	6 5 1 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	0 0 0	1.000 1.000 1.000 1.000	5 4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	00000	1.000 1.000 1.000 1.000 1.000	5 4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		- 0 - 0 - 0 - 0	1.000 1.000 1.000 1.000 1.000
Habitat Mea	ເກສ		0.00	0.00)	0.00	0.00		0			0.00	0.00		0.00	0.00		О			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer'	s	Power Power				r-50% r-50%		P-val P-val		0.732 0.500	Power Power				r-50% r-50%		P-valı P-valı		0.732 0.500	Power Power				r-50% r-50%				0.732 0.500
1825C/1424 153C/453 501C/601 598C/598 1522C/1522	3 3 3 3	4 5	0.00 0.00 0.00 0.00	0.00) 4) 3) 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	3 4 5 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	00000	1.000 1.000 1.000 1.000	3 4 5 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	2.50 0.00 0.00 0.00 0.00	1.58 0.00 0.00 0.00)	 - 0 - 0 - 0	0.181 1.000 1.000 1.000
abitat Mea	ıns		0.00	0.00)	0.00	0.00		O			0.00	0.00		0.00	0.00		0			0.00	0.00		0.50	0.40)	-	
Fisher's Stouffer'	s	Power Power				r-50% r-50%				0.698 0.500	Power Power				r-50% r-50%		P-valı P-valı		0.698 0.500	Power Power	0.010			r-50% r-50%				0.345 0.425

(b) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests. y Direction of diffuence between habitat means is different than direction of overall tests. 2 Only one site pair.

Table C-5.310. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. Cleared May 1990. (Continued.)

				Halosa	ccion	glandifo	rme (A)						на	Losac	cion app.	(A)					Morphol	ogical	Group:	Fine F	ilament	ous Re	ds	
Site Pair	Mvd	N	c	SE	N	0	SE	СV	D	P	N	С	SE	Ŋ	0	SE	CV 1	D	P	N	С	SE	n	0	SE	ÇV I)	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 1 0 1	000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- « - «	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		3 1	000
Habitat Mea	ins		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	(0			0.00	0.00		0.00	0.00	()	
Fisher's Stouffer'		Power Power			Power			P-valu P-valu		1.732 0.500	Power Power				er-50% er-50%		-value		0.732 0.500	Power Power			Power-			-value -value		
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2	5 4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 1	.000	5 4 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 1	0	1.000 1.000 1.000 1.000	5 6 6	0.00 0.00 0.00 0.00	0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- (5 1 5 1 5 1	1,000 1,000 1,000 1,000
Habitat Mea			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'		Power Power			Power			P-val: P-val:		0.732 0.500	Power Power				er-50% er-50%		-valu		0.732 0.500	Power Power			Power-			P-value P-value		
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3	3 4 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	2.50 0.00 0.00 0.00 0.00	1.58 0.00 0.00 0.00	- - -	0 1	0.181 1.000 1.000 1.000	3 4 5 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000	3 4 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6 1	3.00 0.00 0.00 0.00	1.84 0.00 0.00 0.00	- (0 1	0,178 1,000 1,000 L.000
Habitat Mea	ans		0.00	0.00		0.50	0.40		-			0.00	0.00		0.00	0.00		0			0.00	0.00		0.60	0.45		-	
Fisher's Stouffer'	' q	Power Power	0.011 0.006		Power			P-valı P-valı		3.345 3.425	Power Power				er-50% er-50%		-valu		0.698	Power Power	0.000		Power-			e-value		

At least one site pdir p-value < 0.100 in opposite direction of overall tests.</p>
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, 1904

z Only one site	pull		Polysiphonia/Pterosiphonia (A) (a)								Morphological Group: Crustose Reds								Crustose Coralline Algae (P)									
Site Pair	Mvd	N N	С	SE	N	0	SE	cv	D	P	N	С	SE	N	0	SE	cv	D	P	N	C	SE	N	0	SE	CV	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.42 0.00 0.00	0.00 0.42 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0	1.000 0.363 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0 0	1.000 1.000 1.000 1.000
Habitat Mea	ins		0.00	0.00		0.00	0.00)	0			0.08	0.08		0.00	0.00		+			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'		Power Power				r-50% r-50%		P-val P-val		0.732 0.500	Power Power				er-50% er-50%		P-valı P-valı		0.536 0.315	Power Power				r-50% r-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-) -	0	1.000 1.000 1.000 1.000	5 4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.50 0.00 0.00 0.00	0.50 0.00 0.00 0.00 0.00	-	0	0.374 1.000 1.000 1.000	5 4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000
Habitat Mea	ins		0.00	0.00		0.00	0.00)	0			0.00	0.00		0.10	0.10		-			0.00	0.00		0.00	0.00	I	O	
Fisher's Stouffer'		Power Power				r-50% r-50%				0.732 0.500	Power Power				er-50% er-50%		P-valı P-valı		0.542 0.451	Power Power				r-50% r-50%		P-va P-va		0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522		4 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	3 6	3.00 0.00 0.00 0.00 0.00	1.84 0.00 0.00) -) -		0.178 1.000 1.000 1.000	3 4 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	0.00 0.00 0.00 0.00	0.00	-	0 0 0 0	1.000 1.000 1.000 1.000	3 4 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	3 6 1	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- - -	0 0	1.000 1.000 1.000 1.000
Habitat Mea	ans		0.00	0.00	1	0.60	0.45	5	-			0.00	0.00		0.00	0.00		0			0.00	0.00)	0.00	0.00	J	0	
Fisher's Stouffer'		Power Power	0.000			r-50% r-50%				0.342	Power Power				er-50% er-50%		P-val P-val		0.698 0.500	Power Power				r-50% r-50%				0.698

⁽a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of 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, (Continued.)

			Hil	denbra	ndia sp.	(P)							Petr	ocelis (P)												
Site Pair Mv	d N	С	SE	N	0	SE	CV	D	P	N	с	SE	N	0	SE	CV D	D	P	N	С	SE	N	0	SE	(ĊV D	P
453C/453 1 601C/601 1 598C/598 1	6 6 6 6	0.00 0.42 0.00 0.00	0.00 0.42 0.00 0.00 0.00	б б б	0.00 0.00 0.00 0.00	0.00 0.00 0.00) -) -	0	1.000 0.363 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c		1.000 1.000 1.000 1.000 1.000									
Habitat Means		0.08	0.08		0.00	0.0)	+			0.00	0.00		0.00	0.00	C	5										
Fisher's Stouffer's	Power Power			Power Power					0.536 0.315	Power Power				r-50% r-50%		P-value P-value			Somer Somer			Power Power				value value	
601C/601 2 598C/598 2	5 4 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.50 0.00 0.00 0.00 0.00	0.50 0.00 0.00 0.00) -) -	0	0.374 1.000 1.000 1.000	5 4 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0	0	1.000 1.000 1.000 1.000 1.000									
Habitat Means		0.00	0.00		0.10	0.1)	-			0.00	0,00		0.00	0.00	-	0										
Fisher's Stouffer's	Power Power			Power Power					0.542 0.451	Power Power				r-50% r-50%		P-value P-value			Power Power			Power Power				value value	
601C/601 3 598C/598 3	3 4 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	0.00 0.00 0.00 0.00	0.00) -) -	0 0	1.000 1,000 1.000 1.000	3 4 5 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c	0	1.000 1.000 1.000 1.000									
Habitat Means		0.00	0.00		0.00	0.0)	0			0.00	0.00		0.00	0.00	c	Þ										
Fisher's Stouffer's	Power Power			Power Power					0.698 0.500	Power Power				r-50% r-50%		P-value P-value			Power Power			Power Power				value value	

At least one site pair p-value < 0.100 in opposite direction of overall tests, y direction of difference between habital means is different than direction of overall tests, only one site pair.</p>

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; o = control = oiled; P = probability value; dashes insufficient data.

					Bal	anomorph	ıa.							L	ottiidae								м	ytilus				
Site Pair	Mvd	N	С	SE	N	0	SE	cv	D	P	N	С	BE	N	0	SE	ÇV I	,	P	N	c	SE	N	0	SE	CA	D	Þ
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6 6 6	0.00 0.00 2.92 0.42 14.58	0.00 0.00 1.64 0.42 9.67	6	33.00 3.33 0.83 0.83 9.00	18.7 2.0 0.5 0.5 3.7	-		0.121 0.100 0.349 0.549 0.921	6 6 6	0.00 0.00 0.00 0.42 0.42	0.00 0.00 0.00 0.42 0.42	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c - c - c - +	. (1.000 1.000 1.000 0.363 0.363	6 6 6 6	0.00 0.00 0.42 0.00 0.00	0.00 0.00 0.42 0.00 0.00		0.00 1.25 1.25 0.00 3.00	0.00 0.85 1.25 0.00 2.00	- -	- - 0	1.000 0.183 0.718 1.000 0.187
Habitat Mea	ns		3.58	2.34		9.38	5.1	2	-			0.16	0.16		0.00	0.00	+				0.08	0.08		1.12	0,84		-	
Fisher's Stouffer'		Power Power	0.300			r-50% r-50%	0.134	P-va P-va		0.105 0.094	Power Power				er-50% er-50%		-value		0.359 0.186	Power Power	0.107 0.230		Power Power					0.158 0.143
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	5 4 6 6 6	3.00 2.50 5.83 9.17 32.92	1.46 2.50 5.35 6.67 14.80	6 5 6	7.00 4.17 3.00 3.33 6.88	6.3; 2.7; 1.8; 2.0; 6.8;	9 - 1 - 	-	0.878 0.625 0.998 0.280 0.170	5 4 6 6	0.50 0.00 0.00 0.00 0.00	0.50 0.00 0.00 0.00 0.00	б 5 б	0.00 0.42 0.00 0.42 0.00	0.00 0.42 0.00 0.42 0.00		- (- (0.374 0.363 1.000 0.363 1.000	5 4 6 6 6	0.50 0.00 0.00 3.75 5.00	0.50 0.00 0.00 1.55 2.74	6 5 6	0.00 2.08 4.50 4.17 0.63	0.00 1.00 2.00 2.30 0.63	- - -	- - -	0.374 0.081 0.075 0.867 0.184
Habitat Mean	ns		10.68	6.18		4.88	3.9	3	+			0.10	0.10		0.16	0.16	-	-			1.86	0.96		2.28	1,18		-	
Fisher's Stouffer's		Power Power	0.127 0.125			r-50% r-50%	0.467 0.619	P-va P-va			Power Power				er-50% er-50%		-value		0.440 0.144	Power Power	0.123 0.033		Power					0.123 0.143
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3	3 4 5 6 5	0.00 0.00 0.50 0.42 5.50	0.00 0.00 0.50 0.42 4.90	4 3 6	0.00 1.89 0.00 2.09 0.00	0.00 1.8: 0.00 2.0:	3 - 3 - 3 -	-	1.000 0.391 0.374 0.619	3 4 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	0.00 0.63 0.00 0.00 0.00	0.00 0.63 0.00 0.00	- c	- (1.000 0.391 1.000 1.000	3 4 5 6 5	0.00 0.00 0.00 6.25 2.00	0.00 0.00 0.00 3.28 2.00	4 3 6	0.00 0.00 1.67 2.08 0.00	0.00 0.00 1.67 1.36	- - -	-	1.000 1.000 0.423 0.367
Habitat Mean	n s		1.28	1.16		0.80	1.0)	-			0.00	0.00		0.12	0.15	-	-			1.66	1.06		0.76	0.78		-	
Fisher's Stouffer's		Power Power	0.000			r-50% r-50%	0.000			0.493 y 0.258	Power Power	- 			er-50% er-50%		-value -value		0.492 0.321	Power Power	0.020 0.002		Power					0.576 0.299

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

Table C 5.311. Page 1. December 15. 1994

				Mic	ella lamello	1a							Lit	torinidae								Me	ollusca				
Site Pair M	vd N	С	SE	N	0 1	SE		ÇV D	P	N	С	SE	N	0	\$E	CA I	D	P	N	С	BE	N	0	SE	c	V D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 6 1 6 1 6 1 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0 6	0.00 0.00 0.00	0.0	00 00 00	0 - 0 - 0	1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.42 0.42 0.00 0.00	0.00 0.42 0.42 0.00 0.00		-	1.000 0.363 0.363 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) : 	- o - o	1.000 1.000 1.000 1.000
Habitat Means		0.00	0.0	10	0.20	0.3	12	-			0.00	0.00		0.16	0.16		-			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Powe Powe				ower-50% ower-50%			value value		Power Power	- 			r-50% r-50%		-value -value		0.359 0.244	Power Power				r-50% r-50%				0.732 0.500
453C/453 601C/601 598C/598	2 5 2 4 2 6 2 6 2 6 2 6	0.00 0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0 6 0 5 0 6	0.42 0.00 0.00	0.6 0.6 0.6	42 00 00	0 - 0	0.363 1.000 1.000	5 4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 6 - 6	0	1.000 1.000 1.000 1.000 1.000	5 4 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00			1.000 1.000 1.000
Habitat Means		0.00	0.0	0	0.18	0.3	18	-			0.00	0.00		0.00	0.00	(o			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Powe Powe				ower-50% ower-50%			value value		Power Power				er-50% er-50%		-value -value		0.732 0.500	Power Power				r-50% r-50%				0.732 0.500
601C/601 598C/598	3 3 3 4 3 5 3 6 3 5	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0 4 0 3 0 6	0.00 0.00 0.00	0.0 0.0 0.0	00 00	- 0 - 0 - 0 - 0	1.000 1.000 1.000	3 4 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- (0	1.000 1.000 1.000 1.000	3 4 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		- 0 - 0 - 0 - 0	1.000 1.000 1.000 1.000
Habitat Means		0.00	0.0	0	0.00	0.6	00	0			0.00	0.00		0.00	0.00	c	Ó			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Powe Powe				ower-50% ower-50%			value value	0.698 0.500	Power Power				er-50% er-50%		-value -value		0.698 0.500	Power Power				r-50% r-50%				0.698 0.500

 $[\]kappa$ At least one site pair p value < 0.100 in opposite direction of overall tests. y Direction of difference between habital means is different than direction of overall tests. For one site pair.

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.

					Rock							Oi	led Rock									Sand				
Site Pair My	vđ N	c	SE	N	0	SE	CV D	P	N	c	Se	N	0	SE	CV I	D	P	N	С	SE	N	0	SE	cv	D	P
453C/453 1 601C/601 1 598C/598 1	1 6 1 6 1 6 1 6 1 6	74.58 75.00 87.50 99.17 72.50	12.92 15.59 4.56 0.53 11.29	6 6 6	58.00 73.75 97.08 99.17 63.00	18.12 13.16 1.19 0.53 9.73		0.984 0.098 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.42 0.00	0.00 0.00 0.42 0.00 0.00	- 0	0	1.000 1.000 0.363 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- -	0	1.000 1.000 1.000 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		0	
Fisher's Stouffer's	Powe:			Power			P-value P-value		Power Power				r-50% r-50%		-value		0.536 0.417	Power Power			Power Power					0.732 0.500
453C/453 2 601C/601 2 598C/598 2	2 5 2 4 2 6 2 6 2 6	27.00 11.25 55.42 69.17 23.75	16.63 3.15 12.41 11.47 8.13	6 5 6	45.50 56.67 62.00 77.50 18.12	18.34 13.64 19.13 6.58 15.66	 	0.034 0.825 0.596	5 4 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0	0	1.000 1.000 1.000 1.000 1.000	5 4 6 6	0.00 0.00 0.00 10.83 0.00	0.00 0.00 0.00 10.83 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 +	1.000 1.000 1.000 0.363 1.000
Habitat Means		37.34	10.36		51.96	14.66	-			0.00	0.00		0.00	0.00	C	0			2.16	2.16		0.00	0.00		-	
Fisher's Stouffer's	Power			Power			P-value P-value		Power Power				r-50% r-50%		-value		0.732 0.500	Power Power			Power Power					0.536 0.240
453C/453 601C/601 598C/598	3 3 3 4 3 5 3 6 3 5	0.00 20.63 20.50 26.25 17.50	0.00 13.40 11.63 14.83 9.55	4 3 6	19.00 95.63 35.00 22.92 0.00	12.88 2.13 24.62 13.52		0.002	3 4 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0	0	1.000 1.000 1.000 1.000	3 4 5 6 5	0.00 0.00 0.00 10.00 0.00	0.00 0.00 0.00 10.00 0.00	4 3 6	0.00 0.00 2.50 15.83 0.00	0.00 0.00 2.50 15.83	-	0	1.000 1.000 0.423 0.781
Habitat Means		16.98	9.88		34.50	13.27	-			0.00	0.00		0.00	0.00	(0			2.00	2.00		3.66	4.57		-	
Fisher's Stouffer's	Powe:			Power			P-value P-value	0.004	Power Power				er-50% er-50%		-value		0.698 0.500	Power Power			Power Power		F			

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

					Shell	Fragment									Water							Zo	stera	/Phyllosp	adix			
Site Pair	Mvd	1 N	c	SE	N	0	ge	ÇV	Þ	P	N	С	9B	N	0	SE	ÇV	D	P	N	С	SE	N	0	SE	cv	Ď	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00 0.00	0.0 0.0 0.0	0 -	0	1.000	6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00		0.00	0.0	0	O			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	ŝ	Power Power			Power Power			P-va P- v a		0.732	Power Power				r-50% r-50%		P-val: P-val:		0.732 0.500	Power Power				≚-50% r-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2	5 4 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.83 0.00 0.00	0.0 0.8 0.0 0.0	3 - 0 - 0 -	0	1.000 0.363 1.000 1.000	5 4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00 6.88	0.00 0.00 0.00 0.00 6.88	-	0 0 0	1.000 1.000 1.000 1.000 0.391	5 4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	б 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00		0.16	0.1	6	-			0.00	0.00		1.38	1.38		-			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	ŝ	Power Power			Power Power					0.536 0.315	Power Power				r-50% r-50%		P-valu P-valu		0.550 0.429	Power Power				r-50% r-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3	3 4 5 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0	0 - 0 - 0 -	000	1.000 1.000 1.000 1.000	3 4 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000	3 4 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	ŝ	Power Power			Power Power			P-va P-va		0.698 0.500	Power Fower				r-50% r-50%				0.698 0.500	Power Power				r-50% r-50%	F			0.698 0.500

x At least one site pair g-value < 0.100 in opposite direction of 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. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. August 1993. Cleared May 1990. (Continued.)

					Sar	ad and Mud	!							Tota	l Substr	ate												
Site Pair	Mv	d n	С	SE	N	0	SE	ĊΨ	D	P	N	С	SE	N	0	SE	ÇV	ם	Þ	Ŋ	c	SE	N		SB	CV D	I	<u> </u>
453C/453 601C/601 598C/598 1522C/1522	1	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 6 6	75.00 87.50 99.17 72.50	15.59 4.56 0.53 11.29	6 6	73.75 97.50 99.17 63.00	13.16 1.12 0.53 9.73	-	-	0.984 0.078 1.000 0.421									
Habitat Meer	ns		0.00	0.00		0.00	0.00		0			81.76	8.98		78.30	8.52												
Fisher's Stouffer's	ŝ	Power Power				r-50% r-50%				0.732 0.500	Power Power	0.181 0.178			er-50%	0.999	P-valu			Power Power				r-50% r-50%				
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2	4 6	0.00 0.00 0.00 10.83 0.00	0.00 0.00 0.00 10.83 0.00	6 5 6	0.00 0.83 0.00 0.00 6.88	0.00 0.83 0.00 0.00	-	- O +	1.000 0.363 1.000 0.363 0.391	5 4 6 6	27.00 11.25 55.42 80.00 23.75	16.63 3.15 12.41 6.83 8.13	6 5 6	45.50 57.50 62.00 77.50 25.00	18.34 14.07 19.13 6.58 14.47	- - -	- - +	0.509 0.037 0.825 0.793 0.941				2040.	-30%				
Kabitat Mean	ns		2.16	2.16		1.54	1.54		-			39.50	9.42		53.50	14.52		_										
Fisher's Stouffer's	s	Power Power				r-50% r-50%				0.454 y 0.518	Power Power	0.252 0.209			er-50%	0.898			0.131 0.144	Power				r-50% r-50%				
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3	4 5	0.00 0.00 0.00 10.00 0.00	0.00 0.00 0.00 10.00 0.00	4 3 6	0.00 0.00 2.50 15.83 0.00	0.00 0.00 2.50 15.83	-	0	1.000 1.000 0.423 0.781	3 4 5 6 5	0.00 20.63 20.50 36.25 17.50	0.00 13.40 11.63 15.97 9.55	4 3 6	19.00 95.63 37.50 38.75 0.00	12.88 2.13 27.04 16.98		-	0.193 0.002 0.606 0.860									
Habitat Mean	18		2.00	2.00		3.66	4.57		-			18.98	10.12		38.18	14.75												
Fisher's Stouffer's		Power Power				r-50% r-50%				0.457	Power Power				r-50% r-50%		-valu			Power Power				-50% -50%				

x At least one site pair p-value < 0.100 in opposite direction of overall tests. y Direction of difference between habitst pears is different than direction of overall rests. 2 Only one site pair.

Table C-5.313. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky, August 1999. Cleared Bully 1999.

Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; 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)												λiga	1 Tax	xa Richn	es (b)							Tot	al Algae	<u> </u>			
Site Pair	Mvd		c	ge.	N	0	SE	cv	D	P	N	c	SE	N	0	SE	CV 1	D	P	N	¢	SE	N	0	SE	CV	7 D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6 6 6	0.00 0.08 0.00 0.00	0.00 0.08 0.00 0.00	5 6	0.06 0.00 0.00 0.00 0.01	0.06 0.06 0.06 0.06	- -	+ 0 0	0.374 0.363 1.000 1.000 0.363	6 6 6 6	0.67 1.33 0.50 0.00 0.67	0.21 0.33 0.22 0.00 0.21	5 6 6	0.40 0.60 0.17 0.17 0.83	0.40 0.24 0.17 0.17 0.31	-	+	0.550 0.122 0.260 0.363 0.664	6 6 6 6	30.42 46.67 3.75 0.00 41.67	17.75 15.51 2.80 0.00 17.54	5 6 6	7.00 15.00 15.00 1.25 47.08	7.00 12.55 15.00 1.25 16.53	; - ; -	- + - 	0.251 0.113 0.712 0.363 0.930
Habitat Mea	ns		0.02	0.02		0.01	0.03		-			0.63	0.20		0.43	0.26		+			24.52	10.72		17.08	10.48		-	
Fisher's Stouffer'		Power Power			Power					0.446 y 0.567	Power Power	0.534 0.358			er-50% er-50%		P-valu P-valu		0.199 0.356	Power Power	0.00			r-50% r-50%				0.688 y 0.576
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	6 5 6	0.00 0.03 0.06 0.00	0.00 0.03 0.06 0.00	5 5 5	0.02 0.00 0.00 0.00	0.00) -) -		0.374 0.374 0.363 1.000	6 5 6 6	0.83 1.20 0.83 0.50 0.83	0.17 0.49 0.48 0.22 0.17	5 5 6	0.80 0.60 0.20 0.33 0.00	0.37 0.24 0.20 0.21	-	+	0.933 0.305 0.285 0.600	6 6 6	46.25 42.50 21.67 6.25 38.75	19.44 18.49 13.47 4,41 12.29	5 6 1	28.50 8.50 16.00 32.50 0.00	18.24 3.67 16.00 20.56	5 -		0.532 0.162 0.670 0.341
Habitat Mea	ns		0.02	0.02		0.00	0.0)	+			0.84	0.31		0.39	0.26		+			31.12	13.62		17.10	14.63		'	
Fisher's Stouffer'		Power			Power					0.380	Power Power	0.430			er-50% er-50%		P-valu P-valu		0.171 0.108	Power Power	0.10			x-20\$				0.249
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3	3 3 5 4	0.03 0.16 0.03 0.15 0.01	0.03 0.08 0.03 0.09	4 3 5	0.28 0.11 0.00 0.06 0.55	0.1	4 - 5 -		0.147 0.562 0.374 0.369	3 3 5 4 6	1.33 2.00 1.40 1.50 1.17	0.33 0.58 0.40 0.65 0.17	4 3 5	3.00 1.50 0.67 1.00 5.00	0.71 0.50 0.33 0.32	-	+	0.117 0.542 0.258 0.480	3 5 4 6	70.83 75.00 58.50 32.50 44.17	26.71 12.83 13.98 15.88 13.19	4 3 5	65.00 23.75 65.00 77.50 77.50	18.62 12.81 32.53 19.46	1 3		0.775 0.058 0.842 0.150
Habitat Mea	_		0.08	0.05		0.20	0.0	5				1.48	0.42		2,23	0.46		+			56.20	16.52		61.76	20.8	5	•	
Fisher's		Power	0.086 0.017		Power	c-50%				0.308 y 0.151	Power Power	0.205 0,058			er-50% er-50%		P-valu P-valu		0.288 y 0.175	Power Power	0.16			r-50% r-50%	0.698 0.767			0.249 y 0.548

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

Z Only one site			To	tal II	nverteb	rates								ock								Pere	nnials (P)				
Site Pair	Mvd		С .	82	N	0	SE	CV	D	P	N	С	SE	N	0	SE	CV.	D	P	N	С	SE	N	0	SE		CV D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1	6 6 6 6	2.50 0.42 10.83 6.67 7.50	2.50 0.42 4.64 4.73 5.24	5 6 6	38.00 0.00 1.67 3.75 3.33	18.07 0.00 1.67 2.39 2.20	-	+	0.066 0.363 0.044 0.615 0.551	6 6 6 6	67.08 52.92 85.42 93.33 50.83	19.00 15.67 4.54 4.73 15.50	5 6 6	55.00 85.00 83.33 95.00 49.58	18.64 12.55 14.76 2.81 17.65	-	-	0.811 0.111 0.706 0.774 0.830	6 6 6 6	30.42 45.42 3.75 0.00 41.67	17.75 15.83 2.80 0.00 17.54	5 6 6	7.00 15.00 15.00 1.25 46.67	7.00 12.55 15.00 1.25 16.43	5 5 3		0.251 0.125 0.712 0.363 0.939
Habitat Mea	ıns		5.58	3.48		9.36	4.88		+			69.90	11.88		73.58	13.30	l	+			24.26	10.78		17.00	10.46	6	-	
Fisher's Stouffer'		Power	0.110		Power					0.098xy 0.114	Power Power	0.090 0.070			r-50% r-50%	0.966 0.978	P-val P-val		0.750 у 0.817	Power Power	0.005			r-50% r-50%				0.689 y 0.566
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	5 6 6	15.83 9.50 5.42 12.92 19.17	15.83 5.56 2.69 6.87 10.62	5 5 6	17.00 26.00 7.50 10.83 17.50	8.89 14.31 3.16 4.01	-	-	0.635 0.258 0.610 0.823	6 5 6 6	36.25 48.00 72.92 80.83 42.08	18.89 18.68 14.09 8.82 5.34	5 6 :	54.50 65.50 76.50 56.67 82.50	16.27 11.97 18.06 17.27	- - -	+	0.471 0.495 0.963 0.173	6 6 6	46.25 41.50 21.25 6.25 38.75	19.44 18.28 13.35 4.41 12.29	5 5 6 1	28.50 8.50 16.00 32.50 0.00	18.24 3.67 16.00 20.56	7 0 6	- +	0.532 0.168 0.679 0.341
Habitat Mea	ans	Power	12.56	8.32	Power	15.76	7.60 0.336		- lue	0.277	Power	56.02 0.105		Powe	67.14 r-50%		P-val		0.502	Power	0.094	1	Powe	r-50%	0.256	P-	value	0.256
Fisher's Stouffer'	5	Power			Power		0.446	P-va	lue	0.266	Power	0.072		Powe	r-50%	0.649	P-val	иe	0.725	Power	0.080			r-50%				0.429
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3	3	0.00 0.00 9.00 0.63 1.67	0.00 0.00 7.19 0.63 0.83	4 3 5	0.00 11.25 0.00 2.00 2.50	0.00 3.89 0.00 2.00	-	0 - + -	1.000 0.017 0.160 0.769	3 5 4 6	9.17 25.00 32.50 46.88 45.00	6.82 12.83 8.84 22.25 15.47	4 3 5	35.00 65.00 1.67 20.50 20.00	18.62 15.03 1.67 17.47	3 - 7 -	- +	0.306 0.119 0.016 0.340	3 5 4 6	35.83 55.83 58.00 23.13 44.17	27.55 29.45 13.66 12.97 13.19	4 3 5	58.13 16.25 65.00 65.50 65.00	22.02 14.60 32.53 21.16	0 3 6		0.447 0.280 0.822 0.171
Habitat Mea	-	-	2.26	1.72		3.16	1.48		-			31.72	13.24		28.44	13.20)	-			43.38	19.40		53.98	22.58	8	-	
Fisher's		Power	0.045	;	Power	c-50%				0.112 0.116	Power Power	ρ.102			r-50% r-50%		P-val P-val		0.090 0.368	Power Power	0.115			r-50% r-50%				0.265 0.254

⁽a) Modified Standon incom.
(b) Taxa richness calculations are explained in the methods.

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

x At least one site pair p-value < 0.100 in opposite direction of overall tests.</p>
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. (Continued.)

					Ann	uals (A))							Ephe	merals (LE)											
Site Pair	Mvd	a N	С	8E	N	0	SE	CV	D	P	N	c	SE	N	0	SE	CV	ם	P	N	c	SE	N	0	SE	CA D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1	6 6 6 6 6	0.00 1.25 0.00 0.00	0.00 1.25 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00 0.42	0.00 0.00 0.00 0.00) –) –) –	+ 0 o 1 o 1	.000 .363 .000 .000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 2.000								
Habitat Mea	ıns		0.26	0.26		0.08	0.08	3	-			0.00	0.00		0.00	0.00		0									
Fisher's Stouffer'	s	Power Power				r-50% r-50%		P-valu P-valu			Power Power				er-50% er-50%				0.732 0.500	Power Power			Power Power			value value	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2	6 5 6 6	0.00 1.00 0.42 0.00 0.00	0.00 1.00 0.42 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00) -) -	+ 0+ 0		6 5 6 6	0.00 0.00 0.42 0.00 0.00	0.00 0.00 0.42 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0 +	1.000 1.000 0.363 1.000								
Habitat Mea	ns		0.28	0.28		0.00	0.00	;	+			0.08	0.08		0.00	0.00		+									
Fisher's Stouffer'	Ś	Power Power			Powe:	r-50% r-50%		P-valu P-valu			Power Power				2r-50% 2r-50%				0.477 0.415	Power Power			Power Power			value value	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3		35.00 19.17 0.50 9.38 0.00	32.53 19.17 0.50 5.62 0.00	4 3 5	6.88 7.50 0.00 12.00 12.50	6.07 4.45 0.00 12.00	; - ! -	. 0 + 0 + 0 - 0	.761	3 5 4 6	35.00 0.00 0.00 9.38 0.00	32.53 0.00 0.00 5.62 0.00	4 3 5	1.88 7.50 0.00 12.00 0.00	1.20 4.45 0.00 12.00	-	0	0.413 0.184 1.000 0.849								
Habitat Mca	ns		12.82	11.56		7.78	5.65	i	+			8.88	7.62		4,28	4.43		_									
Fisher's Stouffer'	s	Power Power	0.105 0.186		Powe:		0.124				Power Power	0.002 0.004			er-50% er-50%	0.023			0.402 y 0.225	Power Power			Power Power			value value	

x At least one site pair p-value < 0.100 in opposite direction of overall tests. y hiroction of different standard make is different stand direction of overall tests. z Only one site pair.

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 = mecer vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; c = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

				7	rotal	Chloroph	nyta					Morp	hologi	cal (Group: B	laded Gr	eens					Bla	đeđ G	reens (AE	(a)			
Site Pair	Mvd	N	С	SE	N	0	SE	cv	D	P	N	С	SE	N	0	SE	ÇV :	Đ	P	N	С	SE	Ŋ	0	8 E	CV :	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	+ F ed + f + d + d	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00 0.42	0.0 0.0 0.0 0.0	0 - 0 - 0 -	0 0	1.000 1.000 1.000 1.000 0.363	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- ; - ;	0	1.000 1.000 1.000 1.000 1.000
Habitat Mean	ns		0.00	0.00		0.08	0.0	8	-			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0,00		0	
Fisher's Stouffer's		Power Power				er-50% er-50%		P-va P-va		0.536 0.425	Power Power				r-50% r-50%		-valu -valu		0.732 0.500	Power Power				r-50% r-50%		P-valu P-valu		0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	6 5 6 6	0.00 0.50 0.42 0.00 0.00	0.00 0.50 0.42 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0 - 0 - 0 -	+	1.000 0.374 0.363 1.000	6 5 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6 1	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-		1.000 1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- ·	0	1.000 1.000 1.000 1.000
Habitat Mean	ns		0.18	0.18		0.00	0.0	0	+			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power				er-50% er-50%		P-va P-va		0.299 0.243	Power Power				r-50% r-50%		-valu -valu		0.698 0.500	Power Power				r-50% r-50%		P-value P-value		0.698 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3		35.00 0.00 0.00 9.38 0.00	32.53 0.00 0.00 5.62 0.00	4 3 5	6.25 7.50 0.00 12.00 7.50	5.4 4.4 0.0 12.0	5 - 0 - 0 -	-	0.361 0.184 1.000 0.849	3 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		1.88 0.00 0.00 0.00 0.00	1.20 0.00 0.00 0.00	-	0	0.191 1.000 1.000 1.000	3 3 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	1.88 0.00 0.00 0.00 0.00	1.20 0.00 0.00 0.00	- ·	0	0.191 1.000 1.000 1.000
Habitat Mean	ns		8.88	7.62		6.66	5.5	0	-			0,00	0.00		0.38	0.30		-			0.00	0.00		0.38	0.30		-	
Fisher's Stouffer's		Power Power	0.003 0.009			er-50% er-50%	0.025 0.026			0.408 y 0.229	Power Power	0.014 0.003			r-50% r-50%		e-valu e-valu		0.355 0.426	Power Power	0.017 0.003			z-50% ≥-50%		P-valu P-valu		

(a) Mormannia, Monostrora, Ulve and Ulvatia. x At Least one site pair p-value < 0.100 in opposite direction of overall tests. y Direction of difference between habitat means is different then direction of overall tests. z Only one eite $pa^{4.5}$.

Table C 5.314. Page 1. December 15, 1994

	orpholog	rical G	roup:	Fine !	Filamento	ous Gre	i de 17 de 1			Acı	rosig	phonia sp.	(A)				ı	Chaetomo	rpha/F	thizoclon	ium (A)	(a)				
Site Pair My	vd N		С	SE	N	0	8 2	ÇV	D P	N	c	SE	N	О	SE	CV D	P	N	c	SE	N	0	88	CV	D	P
4825C/1424 1 453C/453 1 601C/601 1 598C/598 1 1522C/1522 1	1 6 1 6 1 6 1 6		0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00 0.42	0.00 0.00 0.00 0.00 0.42	- -		6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00 0.42	0.00 0.00 0.00 0.00 0.42	- 0 - 0 - 0	1.00 1.00 1.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0	1.000 1.000 1.000 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		0	
Fisher's Stouffer's	Pov Pov				Power Power			P-valu P- v alu		Power Power				er-50% er-50%		e-value -value						r-50% r-50%		P-valu P-valu		0.732 0.500
601C/601 2 598C/598 2	2 6 2 5 2 6 2 6 2 6		0.00 0.50 0.42 0.00 0.00	0.00 0.50 0.42 0.00 0.00	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-		6 5 6 6	0.00 0.50 0.00 0.00	0,00 0,50 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - + - 0 - 0	0.37	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) 5) 5) 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000
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		0	
Fisher's Stouffer's	Pov Pov				Power Power			P-valu P-valu		Power Power				er-50% er-50%		-value -value						r-50% r-50%		P-valu P-valu		0.698 0.500
598C/598 3	3 3 3 3 3 5 3 4 3 6		5.00 0.00 0.00 9.38 0.00	32.53 0.00 0.00 5.62 0.00	4 4 3 5 1	4.37 7.50 0.00 12.00 7.50	4.37 4.45 0.00 12.00	-	*	3 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	4.37 0.00 0.00 0.00 7.50	4.37 0.00 0.00 0.00	- o - o - o	1.00	3 5 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) 4) 3) 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
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		0	
Fisher's Stouffer's	Pov Pov		0.004		Power Power			P-valu P-valu	e 0.414 y e 0.234	Power Power				er-50% er-50%		-value -value						r-50% r-50%		P-valu P-valu		0.698 0.500

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

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

	Cladophora sp. (AE)												σ	1oth:	rix sp. (?	AE)						τ	rospo:	ra sp. (2	AE)			
Site Pair	Mvd	N	С	SE	N	0	SE	CΛ	ם	P	N	с	SE	N	0	SE	CA D	,	P	N	С	SE	N	0	SE	CV	ם	P
453C/453 601C/601 598C/598 1522C/1522	1 1 1	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- 0 - 0 - 0	2	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000 1.000
Habitat Mear	ns		0.00	0.00		0.00	0.00)	0			0.00	0.00		0.00	0.00	c	5			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power			Power					0.732 0.500	Power Power				er-50% er-50%		P-value P-value		0.732 0.500	Power Power			Power Power					0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	5 6	0.00 0.00 0.42 0.00 0.00	0.00 0.00 0.42 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00) -) -	0	1.000 1.000 0.363 1.000	6 5 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- 0 - 0 - 0 - 0	0	1.000 1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mean	ns		0.08	0.08		0.00	0.00)	_			0.00	0.00		0.00	0.00	c)			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power			Power			P-val		0.477 0.415	Power Power				er-50% er-50%		P-value P-value		0.698 0.500	Power Power			Power Power					0.698 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	3 5	35.00 0.00 0.00 9.38 0.00	32.53 0.00 0.00 5.62 0.00	4 3 5	0.00 7.50 0.00 12.00 0.00	0.00 4.4 0.00 12.00	- -	0	0.347 0.184 1.000 0.849	3 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c	9	1.000 1.000 1.000 1.000	3 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	3 5 1	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mean	ns		8.88	7.62		3.90	4.1	2	-			0.00	0.00		0.00	0.00		D			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	٩	Power Power	0.002		Power		0.021	P-va P-va		0.409 y 0.230	Power Power				er-50%		P-value P-value		0.698 0.500	Domer Domer			Powe:	c-50% c-50%				0.698 0.500

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

Table C 5.314. Page 3. December 15, 1

		мо	rphologic	al Gr	oup:	Tubular (and Saco	ate G	eens		B1	idingi	a/Ent	teromorpha	(AB) (a)											
Site Pair	Morr	1 N	C	SE	N	0	SE	CV I	P	N	¢	SE	N	0	SE	CV I)	P	N	С	ŷe	N	0	SE	c	ם ע	P
453C/453 601C/601 598C/598 1522C/1522	1 1 1	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- (1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- 0 - 0 - 0	1	1.000									
Habitat Mea	ns		0.00	0.00		0.00	0.00	(•		0.00	0.00		0.00	0.00												
Fisher's Stouffer'	s	Power Power				r-50% r-50%			0.732	Power Power				er-50% er-50%		e-value e-value		0.732 0.500	Power Power			Power Power			2-v		
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00	- 6 - 6 - 6	1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- (c) 1) 1	1.000 1.000 1.000 1.000									
Habitat Mea	ans		0.00	0.00		0.00	0.00				0.00	0.00		0.00	0.00	()										
Fisher's Stouffer'	's	Power Power				r-50% r-50%			0.698	Power Power				er-50% er-50%		P-value P-value		0.698 0.500	Power Power			Power Power			P-v P-v		
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3	3 3 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- (1.000 1.000 1.000	3 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5 1	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 6	o 1	1.000 1.000 1.000 1.000									
Habitat Mea	ans		0.00	0.00		0.00	0.00	•	9		0.00	0.00		0.00	0.00	()										
Fisher's Stouffer'	′ я	Power Power				r-50% r-50%			0.698	Power Power				er-50% er-50%		P-value P-value		0.698 0.500	Power Power			Power Power			P-v P-v	alue alue	

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

Table C-5.315. Aigal Percent Cover. Phasophyta. 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.

				2	rotal	Phaeoph	yta					Mor	phologi	cal (Group:	Bladed Br	COWILE					Tota	Fuc	us gardn	eri (P)			
Site Pair	Mvd	N	c	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	ÇV	Ð	P	N	С	SE	N	0	SE	CV	7 D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1	6 6 6	30.42 44.17 0.83 0.00 41.67	17.75 16.24 0.53 0.00 17.54	5 6 6	2.50 15.00 15.00 1.25 46.67	2.5 12.5 15.0 1.2 16.4	5 - 0 - 5 -	-	0.175 0.142 0.493 0.363 0.939	6 6 6 6	30.42 44.17 0.83 0.00 41.67	17.75 16.24 0.53 0.00 17.54	5 6 6	2,50 15.00 15.00 1.25 46.67	2.50 12.55 15.00 1.25 16.43	-	-	0.175 0.142 0.493 0.363 0.939	6 6 6	30.42 44.17 0.83 0.00 41.67	17.75 16.24 0.53 0.00 17.54	5 6 6	2.50 15.00 15.00 1.25 46.67	2.50 12.55 15,00 1.25 16,43	5 - 5 - 8 -	· +	0.142 0.493 0.363
Habitat Mea	ns	;	23.42	10.40		16.10	9.3	6	-			23.42	10,40		16.10	9.56		-			23.42	10.40		16.10	9.56	5	-	
Fisher's Stouffer'		ower	0.004		Power		0.427			0.624 y 0.535	Power Power	0.004			er-50% er-50%	0.434	P-val P-val		0.624 y 0.535	Power Power	0.00			±r-50% ±r-50%				0.624 y 0.535
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	5 6 6	46.25 41.50 18.75 6.25 38.75	19.44 18.28 12.87 4.41 12.29		27.50 8.50 16.00 32.50 0.00	17.3 3.6 16.0 20.5	7 – 10 –	+	0.481 0.168 0.740 0.341	6 5 6 6	46.25 41.50 18.75 6.25 38.75	19.44 18.28 12.87 4.41 12.29	5 5 6	27.50 8.50 16.00 32.50 0.00	17.30 3.67 16.00 20.56	-	+ + - +	0.481 0.168 0.740 0.341	6 5 6 6	46.25 41.50 18.75 6.25 38.75	19.44 18.28 12.87 4.41 12.29	5 5 6	27.50 8.50 16.00 32.50 0.00	17.30 3.67 16.00 20.56	7 - 0 - 5 -		0.481 0.168 0.740 0.341
Habitat Mea	ans		30.34	13.46		16.90	14.	10	+			30.34	13.46		16.90	14.40	•	+			30.34	13.46		16.90	14.40	D	•	
Fisher's Stouffer'		ower	0.095		Power Power		0.264	P-va P-va		0.254	Power Power				er-50% er-50%		P-val P-val		0.254 0.432	Power Power	0.09			er-50% er-50%		P- v a		0.254
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	3 5 4	35.83 43.33 56.50 21.88 43.75	27.55 24.55 12.76 11.79 12.89	4 3 5	52.50 15.63 65.00 65.50 5.00	21,1 13.9 32.9 21,1	97 - 53 -	+	0.561 0.393 0.774 0.160	3 5 4 6	35.83 43.33 56.50 21.88 43.75	27.55 24.55 12.76 11.79 12.89	4 3 5	52.50 15.63 65.00 65.50 5.00	21.70 13.97 32.53 21.16	-	- - - +	0.561 0.393 0.774 0.160	3 5 4 6	35.83 43.33 56.50 21.88 43.75	27.55 24.55 12.76 11.79 12.89	4 3 5 1	52.50 15.63 65.00 65.50 5.00	21.70 13.97 32.53 21.16	7 - 3 - 6 -		0.393 0.774
Habitat Mea	ans		40.26	17.94		40.72	22.	35	-			40.26	17.94		40.72	22.35	•	-			40.26	17.94		40.72	22.35	5	-	
Fisher's Stouffer'		Power Power	0.100 0.062		Power		0.487 0.556	P-va P-va		0.270 0.211	Power Power	0.104			er-50% er-50%		P-val P-val		0.270 0.211	Power Power				er-50% er-50%				0.270 0.211

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

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

z Only one site pa			Adult Fu	cus g	ardneri	(P) (>	2cm)				Juver	ile F	ucus	gardneri	(P) (<=	2cm)				Fue	cue S	tipes (P)	(a)			
Site Pair	Mvd N	С	SE	N	0	SE	CA	D	P	N	С	SE	Ŋ	٥	SE	C₹	D	P	N	С	SE	Ŋ	0	SE	(ם עי	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 6 1 6 1 6 1 6	26.67 44.17 0.83 0.00 41.67	16.43 16.24 0.53 0.00	5 6 6	2.50 15.00 15.00 0.83 46.67	2.5 12.5 15.0 0.8 16.4	5 - 0 - 3 -	• • •	0.194 0.142 0.493 0.363 0.939	6 6 6 6	3,75 0.00 0.00 0.00 0.00	3.75 0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.42 0.00	0.00 0.00 0.00 0.42 0.00	-	0	0.363 1.000 1.000 0.363 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0	- 0 - 0 - 0	1.000 1.000 1.000 1.000
Habitat Means	s	22.68	10.12	2	16.00	9.4	6	-			0.76	0.76		0.08	0.08		+			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		wer 0.0			r-50% r-50%				0.621 y 0.531	Power Power				r-50% r-50%		P-va P-va		0.632	Power Power				r-50% r-50%				0.732 0.500
453C/453 601C/601 598C/598	2 6 2 5 2 6 2 6 2 6	46.25 40.50 18.75 5.83 38.75	19.44 18.12 12.87 4.41 12.29	5 5 6	27.50 7.00 16.00 32.50 0.00	17.3 3.3 16.0 20.5	9 - 0 - 6 -	÷ ÷	0.481 0.149 0.740 0.328	6 5 6 6	0.00 1.00 0.00 0.42 0.00	0.00 1.00 0.00 0.42 0.00	5 5 6	0.00 1.50 0.00 0.00	0.00 1.00 0.00 0.00	-	- 0 +	1.000 0.644 1.000 0.363	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00	0	- 0 - 0 - 0	1.000 1.000 1.000 1.000
Habitat Mean:	ış	30.04	13.42	2	16.60	14.3	3	+			0.28	0.28		0.30	0.25		+			0.00	0.00		0.00	0.00	0	0	
Fisher's Stouffer's		wer 0.3			er-50% er-50%	0.280	P-va P-va		0.239	Power Power	0.001 0.001			r-50% r-50%		P-va P-va		0.541 y 0.319	Power Power				r-50% r-50%				0.698 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3 3 5 3 4 3 6	33.33 43.33 56.00 21.25 43.75	25.10 24.55 13.20 11.97	3 7 5	52.50 13.12 65.00 65.50 5.00	21.7 11.4 32.5 21.1	7 - 3 - 6 -	- - - +	0.491 0.341 0.762 0.154	3 3 5 4 6	2.50 0.00 0.50 0.63 0.00	2.50 0.00 0.50 0.63 0.00	4 3 5 1	0.00 2.50 0.00 0.00	0.00 2.50 0.00 0.00	-	+	0.423 0.391 0.374 0.391	3 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5 1	0.00 0.00 0.00 0.00	0.00	0	- 0 - 0 - 0 - 0	1.000 1.000 1.000 1.000
Habitat Mean	ıs	39.54	17.56	i .	40,22	21.7	3	-			0.72	0.72		0.50	0.63		+			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		wer 0.0			er-50% er-50%	0.512 0.597	P-va P-va		0.249	Power Power				r-50% r-50%				0.254 0.295	Power Power				r-50% r-50%				0.698

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

Table C-5.315, Algal Percent Cover, Phaeophyta, Prince William Sound, Sheltered Rocky, August 1993, Cleared July 1990, (Continued.)

		1	Petalo	nia/Pu	nctaria ((AE) (b)			М	orphologic	cal Gr	oup:	Coarse B	ilament	ous Br	OW	ns			Die	ctyosi	phon sp.	(A)			
Site Pair My	vd N	С	SE	N	o	SE	CV	D	P	N	c	SE	N	0	SE	CV 1	D	P	N	С	SE	N	٥	SE	CV	D	P
4825C/1424 1 453C/453 1 601C/601 1 598C/598 1 1522C/1522 1	1 6 1 6 1 6 1 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	0 0 0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- e	0	1.000 1.000 1.000 1.000 1.000	6666	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Means		0.00	0.00		0.00	0.00		Ó			0.00	0.00		0.00	0.00	•	0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Power Power			Power -			P-val P-val		0.732 0.500	Power Power				r-50% r-50%		-value		0.732 0.500	Power Power			Power Power					0.732 0.500
453C/453 2 601C/601 2 598C/598 2	2 6 2 5 2 6 2 6 2 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	00000	1.000 1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- (0	1.000 1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	00000	1.000 1.000 1.000 1.000
Habitat Means		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		О	
Fisher's Stouffer's	Power Power			Power Power			P-val		0.698 0.500	Power Power				r-50% r-50%		-valu		0.698 0.500	Power Power			Power Power			P-va P-va		0.698 0.500
601C/601 3 598C/598 3	3 3 3 3 5 5 3 4 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	0	1.000 1.000 1.000 1.000	3 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- I	0	1.000 1.000 1.000 1.000	3 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Means		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	,	0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Power Power			Power-					0.698 0.500	Power Power				±-50% ±-50%		-valu		0.698 0.500	Power Power			Power Power			P-va P-va		0.698 0.500

(b) Comera not separated.

 \times At least one site peir p-value < 0.100 in apposite direction of overall tests, y Direction of difference between habitat means is different than direction of overall cests. 2 Only one sate pair.

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

			му	elophy	ycus/	Scytosipho	on (A)	(a)			1	Morpholog	ical G	roup	: Pine F	ilamento	us Bro	OWI	18		Fi	lne Fil	amento	ous Brown	s (XE)	(p)		
Site Pair	Mv	4 N	c	SE	N	0	SE	C/	D	P	N	С	SE	N	0	SE	CV :	D	P	N	С	SE	N	0	SE	c	Q V:	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0 - 0 -	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- i	00000	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0 0 0	- 0 - 0 - 0 - 0	1.000 1.000 1.000 1.000
Habitat Me a	ns		0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer'	s	Power Power				er-50% er-50%		P-va P-va		0.732 0.500	Power Power				er-50% er-50%		P-valu P-valu		0.732 0.500	Power Power				:-50% :-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0 - 0 - 0 -	0	1.000 1,000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- e	00000	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	0 0 0	- 0 - 0 - 0 - 0	1.000 1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00	1	Ó			0.00	0.00		0.00	0.00	3	0	
Fisher's Stouffer'	s	Power Power				er-50% er-50%		P-va P-va		0.698 0.500	Power Power				er-50% er-50%		P-valu P-valu		0.698 0.500	Power Power				c-50%				0.698 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3	3 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0 - 0 -	0	1.000 1.000 1.000 1.000	3 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c	00000	1.000 1.000 1.000 1.000	3 3 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	0	- 0 - 0 - 0 - 0	1.000 1.000 1.000 1.000
Habitat Mea	ıns		0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	3	0	
Fisher's Stouffer'	s	Power Power				er-50% er-50%				0.698 0.500	Power Power				er-50% er-50%		P-valu P-valu		0.698 0.500	Power Power				c-50% c-50%				0.698 0.500

⁽a) Genera not separated.

⁽b) Elachista, Ectocarpus and Pilayella.

x At least one site pair p value < 0.180 in opposite direction of overall tests.

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

2 Only one site pair.

Table C-5.315. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. August 1993. Cleared July 1990. (Continued.)

			Morph	ologi	cal Gr	oup: Sac	cate E	rowns			1	eathes	ia/C	colpomenia	(A) (a)						Sore	nther	ulvoid	a (A)			
Site Pair	Mvd	N	С	SE	N	0	SE	CV	D P	N	С	\$E	N	٥	SE	CV D		P	N	С	SE	N	0	SE	CV	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	o 1.00 o 1.00 o 1.00 o 1.00 o 1.00	6) 6) 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0 - 0	1 .	.000 .000 .000 .000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mean	ns		0.00	0.00		0.00	0.00		0		0.00	0.00		0.00	0.00	0				0.00	0.00		0.00	0.00		O	
Fisher's Stouffer's		Power Power			Power Power			P-valı P-valı						er-50% er-50%		-value		.732 .500	Power Power			Power Power					0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00	-	0 1.00 0 1.00 0 1.00 0 1.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0 - 0	1.	.000	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	0	1.000 1.000 1.000 1.000
Habitat Mean	ns		0.00	0.00		0.00	0.00		0		0.00	0,00		0.00	0.00	0				0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power			Power Power			P-val: P-val:						er-50% er-50%		-value -value		.698 .500	Power Power			Power Power			-val		0.698 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	3 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-) 3) 5) 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- 0 - 0 - 0 - 0	1	.000	3 3 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mean	ns		0.00	0.00		0.00	0.00		0		0.00	0.00		0.00	0.00	0				0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power			Power Power				e 0.69					er-50% er-50%		-value		.698 .500	Power Power			Power Power					0.698 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-5.315. Page R. December 15, 1994

			Morph	ologi	cal Gr	oup: Cr	ustose	Brown	8				Ralfs	La/Pe	troderma	(P) (a)											
ite Pair	Mvd	N	c	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	CV 1	D	P	N	c	SE	N	0	ge	CV D	P
825C/1424 53C/453 01C/601 98C/598 522C/1522	1 1 1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0 -	0 0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 6	0	1.000 1.000 1.000 1.000 1.000								
abitat Mea	ns		0.00	0.00)	0.00	0.0	0	O			0.00	0.00		0.00	0.00	(0									
Fisher's Stouffer'		Power Power				r-50% r-50%				0.732 0.500	Power Power				er-50% er-50%		e-value e-value		0.732 0.500	Power Power				r-50% r-50%		value value	
825C/1424 53C/453 01C/601 98C/598 522C/1522	2	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0	0 – 0 – 0 –	0	1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- (0	1.000 1.000 1.000 1.000								
abitat Mea	ns		0.00	0.00)	0.00	0.0	0	0			0.00	0.00		0.00	0.00		0									
Fisher's Stouffer'		Power Power				r-50% r-50%				0.698 0.500	Power Power				er-50% er-50%		-value		0.698 0.500	Power Power				r-50% r-50%		value value	
825C/1424 53C/453 01C/601 98C/598 522C/1522	3	3 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	3 5	0.00 0.00 0.00 0.00	0.0 0.0 0.0	0 - 0 - 0 -	0	1.000 1.000 1.000	3 3 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- d	0	1.000 1.000 1.000 1.000								
abitat Mea	ns		0.00	0.00	,	0.00	0.0	0	0			0.00	0.00		0.00	0.00		o									
Fisher's Stouffer'		Power Power				r-50% r-50%				0.698 0.500	Power Power				er-50%		-value		0.698 0.500	Power Power				r-50% r-50%		value value	

(a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests. γ Direction of difference between habitat means is different than direction of overall tests. 2 Only one site pelt.

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 ciled site pairs. MVD - meter vertical drop; N = sample size; C = control mean; CV coefficient of variation; SE = standard error; D - direction of difference; + = control > ciled; - control < ciled; P = probability value; dashes = insufficient data.

					ota1	Rhodophyt	ta					Mor	pholog:	ica1	Group:	Bladed H	teds						Bangi	asp. (Al	5)			
Site Pair	Mvd	N	С	SE	N	0	SE	CV	D	P	N	С	SE	N	٥	SE	CV	D	P	N	¢	SE	N	0	SE	CV	D	Р
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6	0.00 2.50 2.92 0.00 0.00	0.00 2.50 2.92 0.00 0.00	5 6 6	4.50 0.00 0.00 0.00 0.00	4.50 0.00 0.00 0.00	- - - -	+ 1 + 1 o :	0.374 0.363 0.363 1.000	6 6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		0	1.000 1.000 1.000 1.000 1.000
Habitat Mean	18		1.08	1.08		0.90	0.90		+			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power	- 		Power			P-val: P-val:		0.440 0.285	Power Power				er-50% er-50%		P-va P-va		0.732 0.500	Power Power			Power			P-val P-val		0.732
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2	6	0.00 0.50 2.50 0.00	0.00 0.50 2.50 0.00	5 5 6	1.00 0.00 0.00 0.00 0.00	1.00 0.00 0.00 0.00	- - - -	+ (0.374 0.374 0.363 1.000	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	1.00 0.00 0.00 0.00 0.00	1.00 0.00 0.00 0.00	-	0	0.374 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mean	18		0.60	0.60		0.20	0.25					0.00	0.00		0.20	0.25		-			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power			Power			P-val P-val		0.380 0.284	Power Power				er-50% er-50%		P-va P-va		0.483 0.450	Power Power			Power Power					0.698 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3	3 5 4 6	0.00 31.67 2.00 1.25 0.42	0.00 13.10 2.00 1.25 0.42	4 3 5	6.25 0.63 0.00 0.00 65.00	1.61 0.63 0.00 0.00		+	0.006 0.008 0.374 0.391	3 5 4 6	0.00 20.00 0.00 0.00 0.00	0.00 18.76 0.00 0.00 0.00	3	0.63 0.00 0.00 0.00 20.00	0.63 0.00 0.00	-	0	0.391 0.328 1.000 1.000	3 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5 1	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0 0	1.000 1.000 1.000 1.000
Habitat Mean	18		7.08	3.36		14.38	0.55		•			4.00	3.76		4.12	0.15		+			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	3	Power Power				-50% -50%		P-val P-val		0.023×y 0.026	Power Power	0.001			er-50% er-50%		P-va P-va		0.556 y 0.341	Power Power				c-50% c-50%				0.698 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 sale pair.

Mante C-5.416. Page 1. Decomber 19, 1994

Z Colly Cite 2100				Gigart	inace	ae Group	(P) (a)						P	alman	ria app. ((A)						Phy	ycodry	rs riggii	(A)			
Site Pair	Mvd	N	c	SE	N	0	SE	CV	D	P	N	С	SE	Ŋ	0	SE	CA	p	P	N	С	SE	N	0	SE	CV	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1111	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	0 0 0	1.000 1.000 1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	s	Power Power			Power					0.732	Power Power				r-50% r-50%		P-val P-val		0.732 0.500	Power Power				r-50% r-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2		0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	1.00 0.00 0.00 0.00	-	0	0.374 1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	0	1.000 1.000 1.000 1.000
Habitat Mea	пŝ		0.00	0.00		0.20	0.25		_			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'		Power Power				-50% -50%				0.483	Power Power				er-50% er-50%		P-val P-val		0.698 0.500	Power Power				r-50% r-50%				0.698
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	4	0.00 0.83 0.00 0.00	0.00 0.83 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00 20.00	0.00 0.00 0.00		+	1.000 0.423 1.000 1.000	3 5 4 6	0.00 19.17 0.00 0.00	0.00 19.17 0.00 0.00 0.00	4 3 5	0.63 0.00 0.00 0.00 0.00	0.63 0.00 0.00	-	+ 0 0 0	0.391 0.423 1.000 1.000	3 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5 1	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000
Habitat Mea	ns		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	
Fisher's Stouffer'	s	Power Power				c-50%				0.508 y 0.332	Power Power				er-50% er-50%				0.590 y 0.623	Power Power				r-50% r-50%				0.698

⁽a) Chondrus, Iridaes, 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-5.316. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky, August 1993. Cleared July 1990. (Continued.)

				1	Porphy	ra sp. (2	A)						Rhod	ymen	ia pertus	a (A)						Tokida	dendro	n kurile	ngig (A)			
Site Pair	Mvd	N	с	ge	N	0	SE	CV	D	P	N	С	SE	N	0	SE	CΛ	D	P	N	c	SE	N	0	SE	CV	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0 - 0 -	0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0 0	1.000 1.000 1.000 1.000 1.000
Habitat Mea	ins		0.00	0.00		0.00	0.0	0	O			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	9	Power Power			Power			P-va P- v a		0.732	Power Power				er-50% er-50%		-valu -valu		0.732 0.500	Power Power			Power Power					0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0	0 – 0 – 0 –	0	1.000 1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6 1	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mea	irs		0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		О	
Fisher's Stouffer'		Power Power			Power			P-va P-va		0.698 0.500	Power Power				er-50% er-50%		-valu		0.698	Power Power			Power Power			-val	ue.	0. 698 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	3 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.0 0.0 0.0	0 - 0 -	0 0 0	1.000 1.000 1.000 1.000	3 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	3 5 4 6	0.00 0.00 0.00 0.00	0.00	4 9 3 9 5 9 1	0.00 0.00 0.00 0.00	0.00 0.00 0.00 	-	0 0 0	1.000 1.000 1.000 1.000
Habitat Mea	ens		0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00		0			0.00	0.00)	0.00	0.00		0	
Fisher's Stouffer'	's	Power Power			Power			P-va P-va		0.698 0.500	Power Power				er-50% er-50%		P-val: P-val:		0.698 0.500	Power Power			Power Power	r-50% r-50%	2			0.698

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

2 Office of the particle parti	Morphological Gro		roup:	Совтяе	Filamen	tous E	Ređi	s		Ar	ticul:	ate (Coralline a	Algae (A)					Crypt	osipho	nia wood	(A) ii					
Site Pair M	wwd.				N N	0	SE	ÇV		P	N	c	9E	N	0	SE	CV D		P	Ŋ	С	SE	N	0	SE	CV	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1	6	0.00 1.25 0.00 0.00	0.00 1.25 0.00 0.00	5 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	+ 0	1.000 0.363 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0	1 1	.000 .000 .000 .000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000
Habitat Means Fisher's Stouffer's		Power Power	0.26	0.26	Power			P-valu P-valu		0.536 0.315	Power Power	0.00	0.00		0.00 er-50% er-50%		o value- value-	0	.732 .500	Power Power	0.00		Power Power				lue lue	0.732 0.500
4825C/1424	2 2 2 2	6	0.00 0.00 2.50 0.00 0.00	0.00 0.00 2.50 0.00 0.00	5 5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 0.363 1.000	6 5 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6 1	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0 - 0	1 1	.000	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6 1	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000 1.000
Habitat Means Fisher's Stouffer's		Power Power	0.50	0.50	Power Power			P-valu P-valu		0.477 0.415	Power Power	0.00	0.00	Pow	0.00 er-50% er-50%		o vaiue- value-	0	.698 .500	Power Power	0.00		Power					0.698 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3	3 3 5 4 6	0.00 11.67 2.00 1.25 0.42	0.00 6.51 2.00 1.25 0.42	5	5.63 0.63 0.00 0.00 40.00	1.20 0.63 0.00 0.00	-	+	0.004 0.122 0.374 0.391	3 3 5 4 6	0.00 0.00 0.50 0.00 0.00	0.00 0.00 0.50 0.00	4 3 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - + - 0	0	.000	3 3 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5 1	0.00 0.00 0.00 0.00	0.00		0 0	1.000 1.000 1.000 1.000
Habitat Means Fisher's Stouffer's		Power Power	3.08 0.196	2.04	Power Power			P-valu		0.142×y 0.094	Power Power	0.10	0.10	Pow	0.00 er-50% er-50%		+ -value -value		.483).417	Power Power	0.00		Power Power			P-va		0.698 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. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. Cleared July 1990. (Continued.)

	Endocladia muricata (P) Pair Mvd N C SE N O SE CV D P													Gloi	ope1	tis furcat	a (A)					1	Neorbodo	omela,	/Rhodome	la (P) (a)			
Site Pair N	Mvd	N	С	SE	N	0	SE		CA	Þ	P	N	С	SE	N	0	SE	ÇV	Þ	P	N	С	SE	n	0	SE	Č	V D	P	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00 0.00	0	.00 .00 .00 .00	-	0 0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 1.25 0.00 0.00	0.00 1.25 0.00 0.00 0.00	5 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		0 0 0	1.000 0.363 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	 	- 0 - 0 - 0 - 0	1.0	00 00 00
Habitat Means	s		0.00	0.00	}	0.00	0	.00		0			0.26	0,26		0.00	0.00		-			0.00	0.00		0.00	0.00)	0		
Fisher's Stouffer's		Power Power				wer-50% wer-50%					0.732 0.500	Power Power				er-50% er-50%		-val		0.536 0.315	Power Power				r-50% r-50%				0.7	
453C/453 601C/601 598C/598	2 2 2 2 2	6 5 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5	0.00 0.00 0.00 0.00	0	.00			1.000 1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	00000	1.000 1.000 1.000 1.000	ნ 5 6 6	0.00 0.00 2.50 0.00 0.00	0.00 0.00 2.50 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00))	- 0 - 0 - + - 0 - 0	1.0	00 63
Habitat Means	9		0.00	0.00)	0.00	0	.00		0			0.00	0.00		0.00	0.00		0			0.50	0.50		0.00	0.00)	+		
Fisher's Stouffer's		Power Power				wer-50% wer-50%					0.698 0.500	Power Power				er-50% er-50%		?-val ?-val		0.698 0.500	Power Power				r-50% r-50%				0.4	
601C/601 598C/598	3	3 3 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0	.00 .00 .00	-	0	1.000 1.000 1.000 1.000	3 3 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 4 3 5 1	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	00000	1.000 1.000 1.000 1.000	3 5 4 6	0.00 11.67 1.50 1.25 0.42	0.00 6.51 1.50 1.25 0.42	4 3 5	5.63 0.63 0.00 0.00 40.00	1.20 0.63 0.00 0.00	i))	 - ! - + - +	0.0 0.1 0.3 0.3	22 74
Habitat Means	ş		0.00	0.00)	0.00	0	.00		0			0.00	0.00		0.00	0.00		0			2.98	1.94		9.24	0.45	;	+		
Fisher's Stouffer's		Power Power				wer-50% wer-50%			-val		0.698 0.500	Power Power				er-50% er-50%		-val -val		0.698 0.500	Power Power	0.19			r-50% r-50%	0.141			0.1	

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

Table C 5.316, Tage 5, De

				Odon	thali	a floccos	a (P)						Ptilot	a/Ne	optilota	(P) (b)					Mo	rpholog	ical (Froup: S	accate F	Reds		
Site Pair	Mvd	N	c	SE	N	0	SE	cv	D	P	N	С	9E	N	0	SE	CV D	,	P	N	C	SE	N	0	SE	CV	7 D	p
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00) -) -	0 0	1.000 2.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0 - 0	1	L.000 L.000 L.000 L.000	6 6 6 6	C.00 C.00 C.00 C.00 C.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	0 0 0	1,000 1,000 1,000 1,000 2,000
Habitat Mea	ans		0.00	0.00		0.00	0.00)	0			0.00	0.00		0.00	0.00	o				0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	's	Power Power			Powe:	c-50% c-50%		P-valı P-valı		0.732 0.500	Power Power				r-50% r-50%		-value -value		0.732 0.500	Power Power				:-50 % :-50 %				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00) –) –	0	1.000 1.000 2.000 1.000	6 5 6 6	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 - 0 - 0 - 0	1 1	1.000 1.000 1.000	6 5 6 6	C.00 C.50 C.00 C.00	0.00 0.50 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0 + 0 0	1.000 0.374 1.000 1.000
Habitat Mea	ans		0.00	0.00		0.00	0.00)	0			0.00	0.00		0.00	0.00	0				0.10	0.10		0.00	0.00		+	
Fisher's Stouffer'	s	Power Power			Powe:	c-50% c-50%		P-valu P-valu		0.698 0.500	Power Power				r-50% r-50%		-value -value		0.698 0.500	Power Power			Power Power	r-50% r-50%				0.483 0.315
4825C/1424 453C/453 601C/601 598C/598 1522C/1522		3 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00) – 1 –) –		1.000 1.000 1.000 1.000	3 5 4 6	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 - 0 - 0 - 0	1 1	1.000 1.000 1.000 1.000	3 3 5 4 6	C.00 C.00 C.00 C.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00 5.00	0.00 0.00 0.00 0.00	-	0 0	1.000 1.000 1.000 1.000
Habitat Mea	ans		0.00	0.00		0.00	0.00]	o			0.00	0.00		0.00	0.00	0	,			0.00	0.00		1.00	0.00		0	
Fisher's Stouffer'	's	Power Power			Powe:	c-50% c-50%		P-valu P-valu		0.698 0.500	Power Power				r-50% r-50%		-value		0.698 0.500	Power Power				-50% -50%				0.698 y 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 habital means is different than direction of overall tests, only one site pair.

Table C-5.316, Algal Percent Cover, Rhodophyta, Prince William Sound, Sheltered Rocky, August 1993, Cleared July 1990, (Continued.)

				Halosa	ccion	glandifo	rme (A)					Hal	Losac	cion app.	(A)				Morphol	ogical	Group:	Fine	Filament	ous Re	ds	
Site Pair	Mvd	N	С	8e	N	0	SE	CV D	P	N	c	SE	N	0	SE	CA D	P	N	С	SE	N	0	SE	CV I	, p	_
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	ed ed ed ed ed ed	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0 - 0	1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0 - 0	1.00 1.00 1.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0	1.00 1.00 1.00 1.00 1.00	00 00 00
Habitat Mca	ns		0.00	0.00		0.00	0.00	o			0.00	0.00		0.00	0.00	0			0.00	0.00		0.00	0.00	C)	
Fisher's Stouffer'		Power Power			Power Power			P-value P-value		Power Power				r-50% r-50%		-value -value					Power Power			P-value P-value		
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	5 6 6	0.00 0.50 0.00 0.00	0.00 0.50 0.00 0.00	5 5 6 1	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- · ·	0.374	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0		5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0	1.00	0 0 0 0
Habitat Mea	ns		0.10	0.10		0.00	0.00	+			0.00	0.00		0.00	0.00	0			0.00	0.00		0.00	0.00	c)	
Fisher's Stouffer'		Power Power			Power			P-value P-value		Power Power				r-50% r-50%		-value -value	0.69 0.50				Power Power			P-value P-value		
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	5 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 4 3 5	0.00 0.00 0.00 0.00 5.00	0.00 0.00 0.00	- 0 - 0 - 0 - 0	1.000	3 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0	1.00	3 5 5 7	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 6	1.(0) O
Habitat Mea	ns		0.00	0.00		1.00	0.00	0			0.00	0.00		0.00	0.00	0			0.00	0.00		0.00	0.00		•	
Fisher's Stouffer'		Power Power			Power Power			P-value P-value		Power Power				er-50% er-50%		-value -value	0.69 0.50				Power Power			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 beans is different than direction of overall tests. z only one site pair.

Table C 5.316. Page 7. December 15, 1994

,	pa.r.		Po1	vaipho	nia/Pt	terosipho	nia (A	(a)				Morp	hologi	cal C	Foup: C:	rustose	Ređs					Crustos	se Co	ralline A	lgae (P))		
Site Pair	Mvc	d N	c	SE	N N	0	8B	CV	D	P	N		SE	N	0	SE	CV	D	P	N	c	SE	N	0	ge ,	cv	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) -) -	0 0 0	1.000 1.000 1.000 1.000	6 6 6	0.00 1.25 2.92 0.00 0.00	0.00 1.25 2.92 0.00 0.00	5 6 6	4.50 0.00 0.00 0.00 0.00	4.50 0.00 0.00 0.00 0.00	- - - -	+ 0	0.374 0.363 0.363 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mea	ins		0.00	0.00		0.00	0.04)	o			0.84	0.84		0.90	0.90		-			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	Ś	Power Power			Power Power	r-50% r-50%				0.732 0.500	Power Power				r-50% r-50%				0.440 y 0.285	Power Power				r-50% r-50%		-valu		
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00) –) –	0	1.000 1.000 1.000	6566	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- - - -	0	1.000 1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00		0.00	0.0)	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	s	Power Power				r-50% r-50%				0.698 0.500	Power Power				r-50% r-50%		P-val		0.698 0.500	Power Power				r-50% r-50%		P-valu		0.698 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3	3 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00) -) -	0	1.000 1.000 1.000 1.000	3 3 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00		0	1.000 1.000 1.000	3 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00		0.00	0.00)	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	s	Power Power			Power	r-50% r-50%				0.698 0.500	Power Power				r-50% r-50%				0.698 0.500	Power Power				¥-50% ≚-50%		P-valu P-valu		

⁽a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of 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, Algal Percent Cover. Rhodophyta, Prince William Sound. Sheltered Rocky. August 1993. Cleared July 1990. (Continued.)

				Hi1	ldenbr	andia sp.	(P)						Pet	rocelis (P	')											
Site Pair	Mvd	ı n	С	SE	N	0	SE	ÇV D	P	N	С	SE	N	0	SE	CA D	,	P	N	c	SE	N	0	SE	 CV D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1	6 6 6 6	0.00 1.25 2.92 0.00 0.00	0.00 1.25 2.92 0.00 0.00	5 6 6	4.50 0.00 0.00 0.00 0.00	4.50 0.00 0.00 0.00 0.00	- + - 0	0.374 0.363 0.363 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0 - 0))	1.000 1.000 1.000 1.000								
Habitat Mean	ns		0.84	0.84		0.90	0.90	+			0.00	0.00		0.00	0.00	0	•									
Fisher's Stouffer's	S	Power Power			Power Power				0.440 y 0.285	Power Power				er-50% er-50%		e-value e-value			Power Power			Power Power			value value	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0	1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- o - o - o	1	1.000 1.000 1.000 1.000								
Habitat Mean	ns		0.00	0.00		0.00	0.00	0			0.00	0.00		0.00	0.00	0										
Fisher's Stouffer's		Power Power			Power Power			-value -value	0.698 0.500	Power Power				er-50% er-50%		-value -value		0.698	Power Power			Power-			value value	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3	3 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		1,000 1,000 1,000	3 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0	1	1.000 1.000 1.000 1.000								
Habitat Mean	18		0.00	0.00		0.00	0.00	0			0.00	0.00		0.00	0.00	0										
Fisher's Stouffer's		Power Power			Power Power			-value -value		Power Power				er-50% er-50%		-value			Power Power			Power-			zalue zalue	

x. At least one site pair p-value < 0.100 in opposite direction of overall tests. y Direction of difference between habital means is different than direction of overall tests. $_{2}$ Chip 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; r = control > oiled; r = control = oiled; P = probability value; dashes = insufficient data.

					Ba1	anomorph	a							Lo	ottiidae								М	ytilus				
Site Pair	Mvć	N	c	SE	N	0	SE	CV	D	P	N	С	se	N	0	SE	cv	D	P	N	С	SE	N	0	ŞE	C	v D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6 6 6	2.50 0.42 6.25 6.25 7.08	2.50 0.42 4.55 4.78 4.85	5 6 6	36.50 0.00 0.42 2.92 3.33	17.17 0.00 0.42 2.08 2.20	-		0.066 0.363 0.262 0.486 0.565	6 6 6 6	0.00 0.00 2.50 0.42 0.00	0.00 0.00 1.58 0.42 0.00	5 5 6 6	0.00 0.00 0.00 0.83 0.00	0.00 0.00 0.00 0.53 0.00	-	0	1.000 1.000 0.103 0.549 1.000	6 6 6 6	0.00 0.00 1.67 0.00 0.42	0.00 0.00 1.24 0.00 0.42	5 6 6	0.00 0.00 1.25 0.00 0.00	0.00 0.00 1.25 0.00	0 5 0	- 0	1.000 1.000 0.701 1.000 0.363
Habitat Mear	ns		4.52	3.44		8.62	4.38		•			0.58	0.40		0.16	0.10		+			0.42	0.32		0.26	0.26	5		
Fisher's Scouffer's	s	Power Power	0.085 0.055			r-50% r-50%		P-val P-val		0.229xy 0.126	Power Power	0.008 0.004			er-50% er-50%		P-val P-val		0.379 0.535	Power Power	0.001		Power Power					0.470 0.391
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	5 6 6	15.83 8.50 2.92 8.33 4.58	15.83 4.78 1.19 4.07 3.62	5 5 6	15.50 22.00 2.00 5.00 17.50	9.03 13.00 1.22 2.50	_ _ _	- + +	0.703 0.286 0.534 0.566	6 5 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6 1	1.50 0.00 0.00 0.00 0.00	1.00 0.00 0.00 0.00	-	0	0.186 1.000 1.000 1.000	6 6 6	0.00 1.00 2.50 4.58 14.58	0.00 1.00 2.04 3.19 8.07	5 5 6	0.00 4.00 5.50 5.83 0.00	0.00 2.57 2.00 2.79	7 D 9		1.000 0.392 0.201 0.651
Habitat Mear	ns		8.02	5.90		12.40	6.43		-			0.00	0.00		0.30	0.25		-			4.54	2.86		3.06	1.85	5	-	
Fisher's Stouffer's	s	Power Power	0.028 0.031			r-50% r-50%		P-val P-val		0.477 y 0.469	Power Power	0.007 0.001			er-50% er-50%		P-val P-val		0.350 0.426	Power Power	0.19 8 0.265		Power Power					0.176 y 0.130
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	3 5 4 6	0.00 0.00 7.50 0.00 1.25	0.00 0.00 6.32 0.00 0.85	4 3 5	0.00 5.00 0.00 0.50 0.00	0.00 3.39 0.00 0.50	-	_	1.000 0.117 0.233 0.374	3 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	3 5 4 6	0.00 0.00 1.50 0.63 0.42	0.00 0.00 1.00 0.63 0.42	4 3 5	0.00 6.25 0.00 1.50 0.00	0.00 4.73 0.00 1.50	3 D D		1.000 0.218 0.186 0.832
Habitat Mear	1.5		1.76	1.44		1.10	0.97		-			0.00	0.00		0.00	0.00		٥			0.50	0.40		1.56	1.55	5	-	
Fisher's Stouffer's	s	Power Power	0.019 0.005			r-50% r-50%				0.222 y 0.102	Power Power				er-50% er-50%		P-val P-val		0.698 0.500	Power Power	0.006		Power Power					0.456 0.300

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

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				N	tucel	la lamello	sa							Lit	torinidae								M	ollusca				
Site Pair	Mvd	1 N	С	SE	N	0	SE	ĊV	D	P	N	c	SE	N	o	SE	CV I	D	P	N	С	SE	N	0	SE		CV D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	1.50 0.00 0.00 0.00 0.00	1.00 0.00 0.00 0.00) -) -	0	0.186 1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.42 0.00 0.00	0.00 0.00 0.42 0.00 0.00	5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		o + o	1.000 1.000 0.363 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) 5) 6) 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00)	- 0 - 0 - 0 - 0	1.000 1.000 1.000 1.000 1.000
Habitat Mean	15		0.00	0.00		0.30	0.2)	-			0.08	0.08		0.00	0.00		+			0.00	0.00	}	0.00	0.00)	O	
Fisher's Stouffer's	5	Power Power	0.005 0.001			er-50% er-50%				0.415 0.427	Power Power				er-50% er-50%		-valu		0.536 0.417	Power Power				r-50% r-50%			value value	0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00) – } –	ō	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6 1	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- ·	o	1.000 1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5) 5) 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00)	- 0 - 0 - 0 - 0	1.000 1.000 1.000 1.000
Habitat Mean	18		0.00	0.00		0.00	0.0)	0			0.00	0.00		0.00	0.00		o			0.00	0.00)	0.00	0.00)	0	
Fisher's Stouffer's	5	Power Power				er-50% er-50%				0.698 0.500	Power Power				er-50% er-50%		e-value		0.698 0.500	Power Power				r-50% r-50%				0.698 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	3 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00) -) -	o	1.000 1.000 1.000 1.000	3 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- e	0	1.000 1.000 1.000 1.000	3 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) 4) 3) 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) }	- 0 - 0 - 0 - 0	1.000 1.000 1.000 1.000
Habitat Mean	15		0.00	0.00		0.00	0.0)	0			0.00	0.00		0.00	0.00		0			0.00	0.00)	0.00	0.00)	0	
Fisher's Stouffer's	3	Power Power				er-50% er-50%				0.698 0.500	Power Power				er-50% er-50%		P-value P-value		0.698 0.500	Power Power				r-50% r-50%				0.698 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-5.318. 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.

						Rock							Oi	led Rock									Sand				
Site Pair B	Mvd N		С	SE	N	0	SE	ÇV D	P	N	с	SE	N	0	SE	CV I)	P	N	С	SE	Ŋ	0	SE	CA	ם	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 6 1 6 1 6 1 6 1 6	52 85 93	7.08 2.92 3.42 3.33 0.83	19.00 15.67 4.54 4.73 15.50	5 5 6 6	55.00 85.00 83.33 95.00 49.58	18.64 12.55 14.76 2.81 17.65	- + - + 	0.811 0.111 0.706 0.774 0.830	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0		1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	<u>-</u> - - -	0	1.000 1.000 1.000 1.000 1.000
Habitat Means	S	69	9.90	11.88		73.58	13.30	+			0.00	0.00		0.00	0.00	c	•			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		wer	0.089 0.070			r-50% r-50%		P-value P-value	0.750 y 0.817	Power Power				r-50% r-50%		-value		0.732 0.500	Power Power				r-50% r-50%	I			0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 6 2 5 2 6 2 6 2 6	4.8 7.2 8.0	3.25 3.00 2.92 3.83 3.08	18.89 18.68 14.09 8.82 5.34	5 5 6 ₊	54.50 65.50 76.50 56.67 82.50	16.27 11.97 18.06 17.27	 - + 	0.471 0.495 0.963 0.173	6 5 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c - c - c - c		1.000 1.000 1.000 1.000	6 5 6 6	1.67 0.00 0.00 0.00 0.00	1.67 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	0.363 1.000 1.000 1.000
Habitat Means	3	56	.02	13.16		67.14	15.92	-			0.00	0.00		0.00	0.00	C)			0.34	0.34		0.00	0.00		+	
Fisher's Stouffer's		wer	0.100 0.069			r=50% r=50%		P-value P-value		Power Power				r-50% r-50%		-value -value		0.698 0.500	Power Power				r~50% r-50%	I			
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3 3 5 3 4 3 6	25 32 46	0.17 5.00 2.50 5.88 5.00	6.82 12.83 8.84 22.25 15.47	4 3 5	35.00 65.00 1.67 20.50 20.00	18.62 15.03 1.67 17.47	 - *	0.306 0.119 0.016 0.340	3 3 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c		1.000 1.000 1.000	3 5 4 6	20.00 0.00 0.00 20.00 3.33	20.00 0.00 0.00 20.00 3.33	4 3 5	0.00 0.00 33.33 0.00 0.00	0.00 0.00 33.33 0.00	-	o -	0,423 1,000 0,423 0,391
Habitat Means	5	33	.72	13.24		28.44	13.20	+			0.00	0.00		0.00	0.00	c)			8.66	8.66		6.66	8.33		-	
Fisher's Stouffer's		wer	0.098		Powe:	r-50% r-50%	0.644	P-value P-value		Power Power				er-50% er-50%		-value -value		0.698 0.500	Power Power				-50% -50%	I			

 \times At least one site pair p-value < 0.100 in opposite direction of overall tests. y Direction of difference between habitat means is different than direction of overall tests. 2 thly one site pair.

Table C-5.31A. Page 1. December 15, 1994

					She.	11 Fragment	8								Water							20	stera,	/Phyllosp	adix			
Site Pair	Mvć	1 N	С	SE	N	0	SE	C	u	P	N	С	ŞE	N	٥	SE	ÇV	D	P	N	c	SE	N	0	SE	ĊV	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522		6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	10 10 10	- 0	1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		0	1.000 1.000 1.000 1.000 1.000
Habitat Mean	r.s		0.00	0.00		0.00	0.0	10	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power				ver-50% ver-50%			ilue ilue	0.732 0.500	Power Power				er-50% er-50%				0.732 0.500	Power Power				c-50% c-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00 0.00	0.0 0.0 0.0	0	0 0 0	1.000	6 5 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6 1	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	0	1.000 1.000 1.000 1.000
Habitat Mear	ns		0.00	0.00		0.00	0.0	0	O			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power				ver-50% ver-50%				0.698 0.500	Power Power				er=50% er=50%		P-valu P-valu		0.698 0.500	Power Power				r-50% r-50%		-va -va		0.698 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	4	0.00 0.00 0.00 0.00 5.83	0.00 0.00 0.00 0.00 5.83	4 3 5	0.00 0.00 0.00 0.00	0.0 0.0 0.0	0		1.000	3 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	3 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0,00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mean	ns		1.16	1.16		0.00	0.0	Q.	o			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power				ver-50% ver-50%				0.698 y 0.500	Power Power				r-50% r-50%		?-valu ?-valu		0.698 0.500	Power Power			Power Power	-50% -50%				0.698 0.500

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

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

				_	Sar	nd and Mud							Tota	l Substr	ate										
Site Pair	Mvc	1 N	¢	SE	N	0	SE	ÇV 1	. 5	N	С	SE	N	0	SE	CV D	P	N	С	SE		0	SE	CV D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1	6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- t	1.000 1.000 1.000	6 6 6 6	67.08 52.92 85.42 93.33 50.83	19.00 15.67 4.54 4.73 15.50	5 6 6	55.00 85.00 83.33 95.00 49.58	18.64 12.55 14.76 2.81 17.65	- + - • - •	0.111 0.706 0.774		-			• • • • • • • • • • • • • • • • • • • •	•	_	
Habitat Mear	ns		0.00	0.00		0.00	0.00	()		69.90	11.88		73.58	13.30	+									
Fisher's Stouffer's	9	Power Power				er-50% er-50%			0.732	Power Power				er-50% er-50%	0.965 P 0.978 E			Power Power		- -	Power Power			P-value P-value	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2	6 5 6 6	1,67 0.00 0.00 0.00 0.00	1.67 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- (6 5 6 6	37.92 48.00 72.92 80.83 42.08	18.32 18.68 14.09 8.82 5.34	5 5 6	54.50 65.50 76.50 56.67 82.50	16.27 11.97 18.06 17.27		0.547 0.495 0.963 0.173								
Habitat Mean	ns		0.34	0.34		0.00	0.00	-			56.34	13.04		67.14	15.92	_									
Fisher's Stouffer's	8	Power Power				er-50% er-50%			0.477	Power Power				er-50% er-50%	0.580 P	-value -value		Power Power		 	Power Power			P-value P-value	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522		3 5 4 6	20.00 0.00 0.00 20.00 9.17	20.00 0.00 0.00 20.00 9.17	4 3 5	0.00 0.00 33.33 0.00 0.00	0.00 0.00 33.33 0.00		1.000	3 5 4 <i>6</i>	29.17 25.00 32.50 66.87 54.17	26.71 12.83 8.84 16.44 13.29	4 3 5	35.00 65.00 35.00 20.50 20.00	18.62 15.03 32.53 17.47	 - + - +	0.776 0.119 0.972 0.077								
Habitat Mean	ns		9.84	9.84		6.66	8.33	+			41.56	15.60		35.10	20.90	_									
Fisher's Stouffer's		Power Power				r-50% r-50%			0.411	Power Power	0.020 0.007			er-50% er-50%	0.521 P 0.585 P	-value -value	0.337 _× , 0.695	Power Power			Power-			>-value >-valuc	

x At least one site pair p-value < 0.100 in opposite direction of overall twets.
y Direction of difference between habital meany is different than direction of overall tests.
2 Only one site pair.

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; o = control : oiled; P = probability value; dashes - insufficient data.

				l Direc	rsity Ind	tov (a)					Algal	Taxa	Richnes	s (b)						Tot	al Algae			
Site Pair	Mvd N	c	R R	N N	O O	SE SE	CV D	P	N	c s	3E	N	0	SE	CA D	P	N	С	SE	N	0	SE	CV D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 0 1 0 1 0 1 0		 	3 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-		0 0 0			0 3 3 3	0.33 0.67 0.33 0.33	0.33 0.33 0.33 0.33	-		0 0 0			- 3 - 3 - 3	6.67 8.33 0.83 0.83	6.67 5.07 0.83 0.83	-	
Habitat Mea Fisher's Stouffer'	Pow	er	 	Powe:	0.00 r-50% r-50%		P-value P-value		Power Power			Power- Power-	50%	I	-value -value		Power Power			Powe	r-50% r-50%		P-value P-value	
4825C/1424 453C/453 601C/601 598C/598	2 0 2 0 2 0 2 0		 	· 3	0.09 0.00 0.00 0.10	0.09 0.00 0.00	-		0 0 0			0 3 3 3	0.67 0.33 0.33	0.67 0.33 0.33 0.58	-		0			- 3 - 3 - 3	2.50 28.33 32.50 36.67	2.50 28.33 32.50 30.63	- - -	
1522C/1522 Habitat Mea Fisher's	Pow	er	 	- Powe	0.05 r-50%	0.05	P-value P-value		Power Power			Power- Power-			e-value e-value		Power Power			Powe	25.00 r-50% r-50%		P-value P-valuc	
Stouffer' 4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 0 3 0 3 0 3 0 3 0 3 0		 	- 0 - 3 - 2 - 3	r-50% 0.00 0.00 0.07 0.12	0.00 0.00 0.07 0.12	-		0 0 0 0	 	 	0 3 2 3 2	0.67 0.00 1.33 2.00	0.33 0.00 0.88 1.00	-		0 0 0 0		 	- 3 - 2 - 3 - 2	10.83 0.00 61.67 92.50	6.51 0.00 30.87 7.50	- - -	
Habitat Mea	Pow		 -	Powe	0.05 r-50% r-50%		P-value P-value		Power Power			Power- Power-			P-value P-value		Power Power	-		⊋owe	\$05-29 27-50%		P-value P-value	

(a) nodi-rad shaded indox.(b) Taxe richness calculations are explained in the mathods.

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

Table C 5.319. Page 1. December 15. 1

z Only one alter			Total In	vertebr	ates						Rock							Perer	mials (P)		
Site Dair	Mud N	С 8	B N	ρ	SE	CV D	P	Ŋ	С	se n	0	SE	CV D	P	N	C	SE	n	0	SE	CA D	P
453C/453 601C/601 598C/598 1522C/1522	1 0 1 0 1 0 1 0		3 3 3	0.00 0.00 0.00 2.50	0.00 0.00 0.00 1.44 0.35	-		0	 	3 3 3 3	93.33 91.67 99.17 96.67 95.23	5.07 0.83 0.83	- - -		0			- 3 - 3 - 3	8.33 0.83 0.83 4.15	5.07 0.83 0.83 3.35	-	
Habitat Mean Fisher's Stouffer's	Power		Power Power	-50%		P-value P-value		Power Power			wer-50% wer-50%		-value -value		Power Power				r-50% r-50%		P-value P-value	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 0 2 0 2 0 2 0 2 0 2 0	 	0 3 3 3	20.00 4.17 1.67 4.17	5.20 2.20 1.67 3.00	-		0 0 0 0		0 3 3 3	77.50 67.50 65.83 59.17	3.82 26.26 31.70 28.37	-		0 0 0 0			- 3 - 3 - 3	0.83 28.33 32.50 35.00	0.83 28.33 32.50 31.32	- - -	
Habitat Mean Fisher's	s Power		Power Power			P-value P-value		Power Power			67.50 wer-50% wer-50%		e-value e-value		Power Power			Powe:	24.15 r-50% r-50%		P-value P-value	
Stouffer's 4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 0 3 0 3 0 3 0 3 0 3 0	 	0 3 2 3 2	0,83 16,25 11,67 2,50	0.83 13.75 11.67 2.50	-		0 0 0 0	 	0 3 2 3 2	88.33 52.50 26.67 5.00	6.51 45.00 19.22 5.00	-		0 0 0	== == == ==		- 3 - 2 - 3 - 2	3.33 0.00 58.33 91.25 38.23	3.33 0.00 29.49 8.75	- - -	
Habitat Mean Fisher's Stouffer's	Power		Power Power	7.83 c-50% c-50%		P-value P-value		Power Power			43.12 wer-50% wer-50%		P-value P-value		Power Power			Powe	r-50% r-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 hebitat means is different than direction of overall tests.
2 Only one site pair.

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

	_		_		λı	nnuals (A)					E	Dheme	erals (A	2)									
Site Pair 1	Mvd	N	С	SE	N	0	SE	CV D	P	N N	c		N	0	SE	CA D	 							
453C/453	1	0 0 0			- 3 - 3 - 3	0.00 0.00 0.00	0.00 0.00 0.00	-		0		 	3 3	0.00	0.00	-	 	c	SE	N_	0	SE	CA D	P
Habitat Means	ŝ				-	0.00	0.00			Ü			3	0.00	0.00	-								
Fisher's Stouffer's		ower				er-50% er-50%		P-value P-value		Power Power			ower-	-50%	P	-value -value	 Power			Power-			P-va_ue	
453C/453 601C/601 598C/598	2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2	0			- 3 - 3 - 3	1.67 0.00 0.00 1.67	1.67 0.00 0.00 1.67	4.		0 0 0			0 3 3 3 3	1.67 0.00 0.00 1.67	1.67 0.00 0.00	- - -	 Power	-		Power-	-50%		P-vaiue	
Habitat Means	3				-	0.85	0.85			•			3	0.85	1.67 0.85	-								
Fisher's Stouffer's		wer wer				er-50% er-50%		P-value P-value		Power Power			ower-	-50%	P	-value -value	 Power			Power-			P-value	
453C/453 601C/601 598C/598	3 0 3 0 3 0 3 0))			3 3 2	7.50 0.00 3.33 1.25	7.50 0.00 3.33 1.25	•		0 0 0		6 2 3	0 3 2 3 3 2 2	7.50 0.00 3.33 0.00	7.50 0.00 3.33 0.00	- - - -	 Power			Power-	50%		P-value	
Fisher's Stouffer's		wer				r-50% r-50%	F	-value		Power Power			wer-		2.70 P-	value value	 Power Power			Power-			P-value	

x At least one site pair p-value < 0.100 in Opposite direction of overall tests. y Direction of difference between Dabinst means is different than direction of overall tests. T 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 ciled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O · ciled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > ciled; - = control < ciled; o = control = ciled; P = probability value; dashes insufficient data.

					Total	Chlorophy	yta				Morph	ologica	al Group	: B1	aded Gre	eens				Bl	aded G	reens (AE) (a)		
Site Pair	Mvd	N	С	SE	N	0	SE	CV D	P	N	c	SE	N C	,	Se	CA D	P	N	С	SE	Ŋ	0	SE	CV D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1	0 0 0 0			- 3 - 3 - 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-		0 0 0		 	3 0. 3 0. 3 0.	00 00 00	0.00 0.00 0.00	- - - -		0 0 0 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- - -	- 3	0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	
Habitat Mear	r.s				-	0.00	0.00						0.	00	0.00					-	-	0.00	0.00		
Fisher's Stouffer's		ower				2~50% 2~50%		P-value P-value		Power Power	-		ower-50%			-value -value		Power Power			Powe:	-50% -50%		-value -value	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2				- 3 - 3 - 3	1.67 0.00 0.00 0.00	2.67 0.00 0.00 0.00	- - - -		0 0 0 0	 		3 0.	 00 00 00	0.00 0.00 0.00 0.00	- - -		0 0 0 0	 	- - - -	- 3 - 3 - 3	0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	
Habitat Mear	r.s				-	0.42	0.42						0.	00	0.00					-	-	0.00	0.00		
Fisher's Stouffer's		ower ower				r-50% r-50%		P-value P-value		Power Power			ower-50%			-value		Power Power				r-50% r-50%		-value -value	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3	0 0 0 0 0	 		- 3 - 2 - 3 - 2	7.50 0.00 3.33 0.00	7.50 0.00 3.33 0.00	-		0	 	 	2 0. 3 0. 2 0.	00 00 00 00	0.00 0.00 0.00 0.00	- - - -		0 0 0	 	- - - -	- 3 - 2 - 3 - 2	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	
Habitat Mear Fisher's Stouffer's	F	ower ower			Powe	2.70 er-50% er-50%		P-value P-value		Power Power			0. ower-509 ower-509			-value -value		Power Power			Powe:	0.00 c-50% c-50%		P-value P-value	

(a) Rorpmannia, 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-5.320. Page 1. December 15, 1994

		Morpholog	gical (Group:	Fine F	ilament o	ous Green	В			Acrosi	phonia sp	(A)				c	naetom	orpha/	Rhizoclon	ium (A)	(a)	
Site Pair 1	Mvd N	С	SE	N	0	SE	CV D	P	N	С	se n	0	SE	CA D	P	N	С	SE	N	0	SE	CV D	P
4825C/1424 453C/453	1 0			ž.	0.00	0.00			0		0 3	0.00	0.00			0			0 3	0.00	0.00		
601C/601	3 0			~	0.00	0.00	_		ñ		3	0.00	0.00	-		ő			3	0.00	0.00		
598C/598	1 0			3	0.00	0.00	-		ō		3	0.00	0.00	-		Ö			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	s				0.00	0.00						0.00	0.00							0.00	0.00		
Fisher's	Power	r		Power	-50%		P-value		Power		Pow	er-50%	1	P-value		Power		_		2-50%		P-value	
Stouffer's	Powe:	r		Power	-50%		P-value		Power		Pow	er-50%		P-value		Power		-	Powe	er-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			-	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	-		U		3	0.00	0.00	-		0			3	0.00	0.00	-	
Habitat Means	s				0.42	0.42						0.00	0.00							0.00	0.00		
Fisher's	Power	r		Power	-50%		P-value		Power		Pow	er-50%	:	P-value		Power		_	Powe	er-50%		P-value	
Stouffer's	Powe:	r		Power	-50%		P-value		Power		Pow	er-50%		P-value		Power		-	Powe	r-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		
	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	s				2.70	2.70						0.00	0.00							0.00	0.00		
Fisher's	Powe	r		Power	r-50%		P-value		Power		Pow	er-50%		P-value		Power		_	Powe	er-50%		P-value	
Stouffer's	Powe:	<u>r</u>		Power	r-50 %		P-value		Power		Pow	er-50%	3	?-value		Power		-	Powe	r-50%		P-value	

⁽a) Gapera pot esparated.
A clear to me wite pair p-value < 0,100 in opposite direction of overall tests.</p>
y Direction of difference between habitat means is different than direction of overall tests.
2 Only one site pair.

Table C-5.320. Algal Percent Cover. Chlorophyta. Prince William Sound. Sheltered Rocky. August 1993. Cleared August 1989. (Continued.)

				C1ad	ophora sp	. (AE)					Uloth	rix ap. (AE)						Urospo	ra sp. (AB)		
Site Pair	Mvd N	С	SE	1	1 0	SE	CV D	P	N	С	se n	0	SE	ÇV D	P	N	С	SE	N	0	SE	CV D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 0 1 0 1 0 1 0 1 0		1	(9.00	0.0)		0 0 0 0		0 3 3 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -		0 0 0 0		- - -	- 3 - 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		
Habitat Mean Fisher's Stouffer's	Powe				0.00 ower-50% ower-50%	0.0	P-value P-value		Power Power			0.00 er-50% er-50%		P-value P-value		Power Power			Powe	u.uu r-50% r-50%	:	P-value P-value	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 0 2 0 2 0 2 0 2 0			 	•	1.6	7 - 0 -		0 0 0		0 3 3 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-		0 0 0	 	- - -	- 0 - 3 - 3 - 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	
Habitat Mean Fisher's Stouffer's	Powe				0.42 ower-50% ower-50%		P-value P-value		Power Power		Powe	0.00 er-50% er-50%	1	P-value P-value		Power Power				r-50% r-50%		P-value P-value	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 0 3 0 3 0 3 0 3 0	 			0	7.5 0.0 3.3	0 - 0 - 3 -		0 0 0 0		0 3 2 3 2	0.00	0.00 0.00 0.00 0.00	- - - -		0		-	- 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	
Habitat Mean Fisher's	Powe		·		2.70 ower-50% ower-50%	2.7	P-value P-value		Power Power			0.00 er-50% er-50%		P-value P-value		Power Power				0.00 r-50% r-50%		P-value P-value	

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

Table C 5.320, Page 3, December 15, 1

	Mor	phologica	l Gro	up:	Tubular a	and Sac	cate Gree	ns.		B.	liding.	ia/Ent	eromorpha	(AE) (a)				_					
nita maju tini	м	0 8	P	N	n	Q R	מיטיה	Р	N	C	se	N	0	SE	CV D	P	N	С	SE	N	0	SE	CA D	P
453C/453 1 601C/601 1 598C/598 1 1522C/1522 1	0	 		3 3 3	0.00 0.00 0.00	0.00 0.00 0.00	-		0 0 0			3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-									
	Power Power			Powe:	0.00 r-50% r-50%		P-value P-value		Power			Pow€	0.00 r-50% r-50%		P-value P-value		Power Power			Power Power			P-value P-value	
4825C/1424 2 453C/453 2 601C/601 2 598C/598 2 1522C/1522 2	0			0 3 3 3	0.00 0.00 0.00	0.00 0.00 0.00	-		0 0 0	 		3 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00	_									
	Power Power				0.00 r-50% r-50%		P-value P-value		Power Power	 		Powe	0.00 r-50% r-50%		P-value P-value		Power Power			Power Power			P-value P-value	
4825C/1424 3 453C/453 3 601C/601 3 598C/598 3 1522C/1522 3	0	 	 	2	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-		0 0 0 0	 		· 3 · 2 · 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-									
Habitat Means Fisher's	Power				0.00 r-50% ~-50%		P-value P-value		Power Power			Powe	0.00 x-50% x-50%		P-value P-value		Power			Power Power				

⁽a) Genera not separated.

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

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.

		Tota	al Phaeophy	yta				Morpl	nological	Group: B	laded Bro	WILB				Tota:	l Fucu	s gardne	eri (P)		
Site Pair Mvd N	C 8	se n	0	SE	CA D	P	N	С	se n	0	9B	CV D	P	N	c	SE	N	0	SE	CV D	P
4825C/1424 1 0 453C/453 1 0 601C/601 1 0 598C/598 1 0 1522C/1522 1 0		0 3 3 3	6.67 8.33 0.83 0.83	6.67 5.07 0.83 0.83	- - - -		0 0 0		3 3 3	6.67 8.33 0.83	6.67 5.07 0.83	- - - -		0 0 0			3	6.67 8.33 0.83	6.67 5.07 0.83	- - -	
Habitat Means			4.15	3.35	_		U		3	0.83 4.15	0.83 3.35	-		0			3	0.83 4.15	0.83 3.35	-	
Fisher's Power Stouffer's Power			wer-50% ver-50%		P-value P-value		Power Power			er-50% er-50%		value value		Power Power			Power Power			P-value P-value	
4825C/1424 2 0 453C/453 2 0 601C/601 2 0 598C/598 2 0 1522C/1522 2 0		0 3 3 3	0.83 28.33 32.50 36.67	0.83 28.33 32.50 30.63	-		0 0 0 0		0 3 3 3	0.83 28.33 32.50 35.00	0.83 28.33 32.50 31.32	-		0 0 0			3 3 3	0.83 28.33 32.50 35.00	0.83 28.33 32.50 31.32	-	
Habitat Means			24.58	23.05						24.15	23.23						,	24.15	23.23		
Fisher's Power Stouffer's Power			ver-50% ver-50%		P-value P-value		Power Power			r-50% r-50%		value value		Power			Power		P	-value -value	
4825C/1424 3 0 453C/453 3 0 601C/601 3 0 598C/598 3 0 1522C/1522 3 0		0 3 2 3 2	3.33 0.00 57.50 56.25	3.33 0.00 29.19 43.75	-		0 0 0	 	0 3 2 3 2	3.33 0.00 57.50 56.25	3.33 0.00 29.19 43.75	-		0 0 0 0	 	 	0 3 2 3 2	3.33 0.00 57.50 56.25	3.33 0.00 29.19 43.75	-	
Fisher's Power Stouffer's Power			29.28 /er-50% /er-50%		-value -value		Power Power			29.28 ==-50% ==-50%		value value		Power Power			Power Power			-value -value	

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

Table C 5.321. Page 1. December 15, 1994

		λdı	11t Puc	us g	ardneri (P) (> 2	(cm)			Juve	nile Fucu	gardneri	(P) (<=	2cm)				1	Fucus S	tipes (P) (a)		
Site Pair	Mvd N	c	SE	N	0	SE	CA D	P	N	¢	se n	0	SE	CV D	Þ	N	C	SE	N	Q	SE	ČV n	p
453C/453 601C/601 598C/598 1522C/1522	1 0 1 0 1 0	 		3 3 3	6.67 7.50 0.83 0.83	6.6/ 4.33 0.83 0.83	-		0		3 3 3	0.00 0.83 0.00 0.00	0.00 0.83 0.00 0.00	-		0			3 3 3	0.00 0.00 0.00	0.00 0.00 0.00	-	
Habitat Mea Fisher's Stouffer'	Power				3.95 r-50% r-50%		P-value P-value		Power Power			0.20 ver-50% ver-50%		P-value P-value		Power Power		-		0.00 r-50% r-50%		P-value P-value	
4825C/1424 453C/453 601C/601 598C/398 1522C/1522	2 0 2 0 2 0 2 0 2 0			0 3 3 3	0.00 28.33 32.50 35.00	0.00 28.33 32.50 31.32	_		0 0 0 0	 	0 3 3 3	0.83 0.00 0.00	0.83 0.00 0.00	- - - -		0 0 0 0	 	-	0 3 3	0.00	0.00 0.00 0.00 0.00	- - -	
Habitat Mean Fisher's Stouffer's	Powe:				23.95 r-50%		P-value		Power			0.20 ver-50%		P-value		Power			Powe:	0.00 r-50%	0.00	P-value	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 0 3 0 3 0 3 0 3 0	 		0 3 2 3 2	r-50% 0.00 0.00 57.50 56.25	0.00 0.00 29.19 43.75	P-value - - - - -		Power 0 0 0 0		Pow 0 3 2 3 2	3.33 0.00 0.00 0.00	3.33 0.00 0.00 0.00	- - - - - -		0 0 0 0 0	 	-	Powe: 0 3 2 3 2	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	P-value	
Habitat Mean Fisher's Stouffer's	Power			Power Power			P-value P-value		Power Power			0.83 er-50% er-50%		e-value e-value		Power Power		-		0.00 -50%		P-value 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 habitet means is different than direction of overall tests.
 z Only one site pair.

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

	Petalonia/Punctaria (AE) (b)										Мо	rphologic	al Group:	Coarse 1	Filament	ous Brow	me				Dictyo	siphon sp	. (A)		
Site Pair	Mvd	N	c	SE	N	0	SE	cv	p	P	N	C E	E N	0	SE	ÇA D	P	N	c	SE	N	0	SE	CA D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	0 0 0 0			- 3 - 3 - 3	0.00 0.00 0.00 0.00	0.0 0.0 0.0	0 -			0 0 0 0	 	0 3 3 3	0.00 0.00 0.00 0.00	0,00 0.00 0.00 0.00	- - - -		0 0 0			0 3 3 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	
Habitat Mea	ns					0.00	0.0							0.00	0.00			Power			 Pow	0.00 er-50%	0.00	P-value	
Fisher's Stouffer'		Power Power				er-50% er-50%		P-val P-val			Power Power			er-50% er-50%		P-value P-value		Power			Pow	er-50%	1	P-value	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2	0			- 3 - 3 - 3	0.00 0.00 0.00 0.00	0.0 0.0 0.0	0 - 0 - 0 -			0 0 0	 	3 3 3	0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -		0 0 0 0			0 3 3 3	0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	
Habitat Mea	ins			-	-	0.00	0.0	0						0.00	0.00							0.00	0.00		
Fisher's Stouffer'		Power Power				er-50% er-50%		P-va P-va			Power			er-50% er-50%		P-value P-value		Power Power				er-50% er-50%		P-value P-value	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	0 0 0 0		- - -	- 3 - 2 - 3	0.00 0.00 0.00	0.0	0 -			0 0 0		0 3 2 3 2	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-		0 0 0 0			3 2 3 2	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	
Habitat Mea		Power			Pow	0.00 er-50% er-50%	0.0	0 P-va P-va			Power Power			0.00 ver-50% ver-50%		P-value P-value		Power Power				0.00 ver-50% ver-50%		P-value P-value	

(p) Genera not separateur.

x At least one site pair p-value < 0.100 in opposite direction of overall tests.</p>
Olimetton of difference between habitat means is different than direction of overall tests.
2 Only one site pair.

Table C-5 321. Page 3. December 15, 1994

z Only one site	pair.		,	Myelon	hvcus	/Scytomipl	on (A)	(a)			м	orpholog	ical	Group:	Fine Fi	ilamento	us Brown	8		F	ne Fil	amento	ous Brown	B (AE)	(b)	
Site Pair	Mvd		- c	SE	N		SE	CI	, D	P	N	c	SE	N	0	SE	CA D	P	N	С	SE	N	0	SE	CA D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	_	0 0 0 0			0 3 3 3	0.00 0.00 0.00 0.00	0.0	00 -			0 0 0		-	0 3 3 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -		0 0 0 0			- 3 - 3 - 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	
Habitat Mea Fisher's Stouffer'		Power Power				0.00 wer-50% wer-50%	0.0	2-va			Power Power		-		0.00 r-50% r-50%		P-value P-value		Power Power			Power	0.00 r-50% r-50%		P-valuc P-value	
4825C/1424 453C/453 601C/601 598C/598	2 2 2	0 0 0			0 3 3	0.00 0.00 0.00 0.00	0.0	00 -	- -	 	0 0 0 0	 	-	0 3 3 3	0.00 0.00 0.00 1.67	0.00 0.00 0.00	- - - -		0 0 0 0			- 3 - 3 - 3	0.00 0.00 0.00 1.67	0.00 0.00 0.00 1.67	-	
1522C/1522 Habitat Mea	_	Power				0.00 wer-50%	0.0	00	alue		Power		-		0.42 r-50%		P-value		Power			Powe	0.42 r-50%		P-value	
Fisher's Stouffer' 4825C/1424 453C/453 601C/601 598C/598 1522C/1522	5 3 3 3 3	Power 0 0 0 0 0		· -		0.00	0.0	P-v	alue -		Power 0 0 0 0	 	-	Powe 0 3 2 3 2	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- - -		Power 0 0 0 0	 	- 	- 0 - 3 - 2 - 3 - 2	r-50% 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	
Habitat Mea Fisher's Stouffer'		Power Power				0.00 wer-50% wer-50%	0.0 	P-v	alue alue		Power Power		-		0.00 er-50% er-50%		P-value P-value		Power Power		-	Powe	r-50% r-50%		P-value P-value	

⁽a) Genera not coparated.

⁽b) Elschiets, Eccocarpus and Pilsyslia. x At Least one site par: p-value < 0.100 in opposite direction of overall tests. y Direction of difference between habital means is different than direction of overall tests. z Dnly one site pair.

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

			Мог	pholog	jíca	1 Grou	ip: Sa	ccate E	rowns					Leathe	sia/C	olpomenia	(A) (a))				Sor	anther	a ulvoid	ea (A)		
Site Pair	Mvd	3 N	С	SE		N	0	SE	ĊV	D	P	N	С	SE	N	0	SE	CV D	P	N	С	SE	N	0	SE	CV D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1 :	0 0 0				3	0.00 0.00 0.00 0.00	0.00) -) -			0 0 0			3 3	0.00 0.00 0.00 0.00	0.00	- - - -		0 0 0 0	 		- 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	
Habitat Mea	LS			-			0.00	0.00)							0.00	0.00						-	0.00	0.00		
Fisher's Stouffer'	s	Power Power				ower-5			P-val P-val			Power Power				x-50% x-50%		P-value P-value		Power Power				c-50% c-50%		-value -value	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	0				3 3	0.00 0.00 0.00	0.00) -) -			0 0 0	 		3 3	0.00 0.00 0.00	0.00 0.00 0.00	-		0 0 0	 		- 3 - 3 - 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	
Habitat Mea	ıns			-	-		0.00	0.00)							0.00	0.00						-	0.00	0.00		
Fisher's Stouffer'	s	Power Power				ower-5			P-val P-val			Power Power				r-50% r-50%		e-value e-value		Power Power				r-50%		e-value	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	Õ		-	- - - -	2 3	0.00 0.00 0.00 0.00	0.00) - - -			0 0 0 0			3 2 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-		0 0 0 0	 		- 3 - 2 - 3	0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	
Habitat Mea	ns			-			0.00	0.00)							0.00	0.00						-	0.00	0.00		
Fisher's Stouffer'		Power Power				ower-5			P-val P-val			Power Power				r-50% r-50%		-value		Power				-50% -50%		-value -value	

(a) Genera not Reparated.

x At least one site pair p-value < 0.100 in opposite direction of overall tests. y Direction of difference between Nabitat means is differenc than direction of overall tests. 2 Only one site pair.

Table C 5.321. Vage 5. December 15, 1994

		Morphol	ogic	al Gro	up: Cru	stose	Browns				Ralfsi	a/Pet	roderma	(P) (a)										
Site Pair Mvd	N	с я	B	N	0	SE	CV D	P	N	С	SE	N	0	SE	CA D	P	N	c	gg	N	0	SE	CV D	P
453C/453 1 601C/601 1 598C/598 1	0 0 0 0			0 3 3 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00) -) -) -		0 0 0			0 3 3 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -									
Habitat Means					0.00	0.00)						0.00	0.00										
	Power Power			Power Power			P-value P-value		Power Power			Power Power			-value -value		Power Power			Power Power	-50% -50%		P-value P-value	
453C/453 2 601C/601 2 598C/598 2 1522C/1522 2	0		 	0 3 3 3	0.00 0.00 0.00 0.00	0.00	- - - -		0 0 0		 	0 3 3 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-									
Habitat Means					0.00	0.00	;						0.00	0.00										
	Power			Power Power			P-value P-value		Power Power			Power Power			P-value P-value		Power Power			Power Power				
453C/453 3 601C/601 3 598C/598 3		 	 	0 3 2 3 2	0.00 0.00 0.00	0.00 0.00 0.00	- - -		0 0 0	 		0 3 2 3 2	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- - - -									
Habitat Means					0.00	0.00							0.00	0.00										
	Power Power			Power Power			P-value P-value		Power Power			Power Power			-value -value		Power Power			Power Power			I Value	

(a) Genera not separated.

x At least one sice pair p-value < 0.300 in opposite direction of overall tests. y Direction of difference between tabitat means is different than direction of overall tests. z Only one site pair.

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.

			Tota	l Rhodophy	/ta				Morp	hological	Group:	Bladed Re	đa				Ban	gia sp. (A	AE)		
Site Pair Myd	N	C s	E N	0	SE	CV D	P	N	C S	E N	0	SE	CA D	P	N	С	se n	o	SE	CV D	P
4825C/1424 1 453C/453 1 601C/601 1 598C/598 1 1522C/1522 1	0 0 0 0	 	0 3 3 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - - -		0 0 0	 	~- 0 ~- 3 ~- 3 ~- 3 ~- 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00			0 0 0		0 3 3 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	
Habitat Means				0.00	0.00					~-	0.00	0.00						0.00	0.00		
	Power Power			er-50% er-50%		-value -value		Power Power			r-50% r-50%		value value		Power Power			er-50% er-50%		value value	
4825C/1424 2 453C/453 2 601C/601 2 598C/598 2 1522C/1522 2	0 0 0 0	 	0 3 3 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -		0 0 0 0		~- 0 ~- 3 ~- 3 ~- 3	0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - - -		0 0 0 0	 	0 3 3 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	
Habitat Means				0.00	0.00					~-	0.00	0.00						0.00	0.00		
	Power Power			er-50% er-50%		-value		Power Power			r-50% r-50%		value value		Power Power			er-50% cr-50%		value value	
4825C/1424 3 453C/453 3 601C/601 3 598C/598 3 1522C/1522 3	0 0 0 0	 	0 3 2 3 2	0.00 0.00 0.83 36.25	0.00 0.00 0.83 36.25	- - -		0 0 0 0	 	0 3 2 3	0.00 0.00 0.83 0.00	0.00 0.00 0.83 0.00	- - - -		0 0 0 0	 	0 3 2 3 2	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	
Habitat Means				9.27	9.27					~ -	0.20	0.20						0.00	0.00		
	Power Power			er-50% er-50%		-value -value		Power Power			r-50% r-50%		value value		Power Power			er-50% er-50%		valuo value	

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

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

			ligarti:	naceae G	roup (P) (a)					Palma	ria spp.	(A)					Phy	\coq1.	ya riggii	. (A)		
Site Pair Myd	l N	c _	SE	N C)	SE	CV D	P	N	C I	SE N	0	SE	CA D	P	N	С	SE	N	0	SE	CV D	P
4825C/1424 1 453C/453 1	0				00	0.00			0		0 3	0.00	0.00	-		0			3	0.00	0.00	-	
601C/601 1 598C/598 1 1522C/1522 1	0 0			3 0.	00	0.00 0.00 0.00	-		0		3 3 3	0.00 0.00 0.00	0.00 0.00 0.00	-		0			3	0.00 0.00 0.00	0.00 0.00 0.00	-	
Habitat Means				0.	00	0.00						0.00	0.00							0.00	0.00		
	Power Power			Power-509 Power-509			-value -value		Power Power			r-50% r-50%		P-value P-value		Power Power				r-50% r-50%		P-value P-value	
4825C/1424 2 453C/453 2 601C/601 2 598C/598 2 1522C/1522 2	0	 		3 0.	00 00 00 00	0.00 0.00 0.00 0.00	-		0 0 0	 	0 3 3 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-		0 0 0 0	 		3 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	
Habitat Means				0.	00	0,00						0.00	0.00							0.00	0.00		
	Power Power			Power-50% Power-50%			-value -value		Power Power			r-50% r-50%		P-value P-value		Power Power				r-50% r-50%		P-value P-value	
4825C/1424 3 453C/453 3 601C/601 3 598C/598 3 1522C/1522 3		 	 	2 0.	00 00 83 00	0.00 0.00 0.83 0.00	-		0 0 0 0	 	0 3 2 3 2	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00			0 0 0	 	 	3 2 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		
Habitat Means				0.	20	0.20						0.00	0.00							0.00	0.00		
	Power Power			Power-50% Power-50%			-value -value		Power Power			r-50% r-50%		P-value P-value		Power Power			Power Power			P-value P-value	

⁽a) Chondrus, Iridaea, Mastonarpus and Rhodoglossum.

x At least one site pair p-value < 0.103 in opposite direction of overall tests. y Direction of difference between habitat means is different than direction of overall tests. Only one sate pair.

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

				Por	phyra	. sp. (A)					Rhod	lymeni	ia pertus	a (A)					Tokida	dendro	n kurile	nsis (A)		
Site Pair	Mr.l N	c	SE	N		0	SE	CV D	P	N	С	gr	N	0	ge	CV D	P	N	С	SE	N	0	SE	CV D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	L 0 1 0 1 0	 	•	0 3 3 3	3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-		0 0 0 0	 	 	0 3 3 3 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-		0000			- 3 - 3 - 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	
Habitat Mean Fisher's Stouffer's	Power	 			ower-5			P-value P-value		Power Power				±-50% ±-50%	z	-value -value		Power			Power	c-50% c-50%	I	P-valuc P-value	
4825C/1424 453C/453 601C/601 598C/598	2 0 2 0 2 0 2 0	 		3 3 3	3	0.00 0.00 0.00	0.00 0.00 0.00	-		0 0 0 0	 		-	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-		0 0 0 0	 	-	- 3 - 3 - 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	
1522C/1522 Habitat Mear	_				,	0.00	0.00						D	0.00 r-50%	0.00	-value		Power		-		0.00 r-50%	0.00	P-value	
Fisher's Stouffer's	Power s Power				ower-5			P-value P-value		Power				r-50%	I	-value		Power	-		Powe:	r-50%		2-value	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 0 3 0 3 0 3 0 3 0			(0 3 2 3 2	0.00 0.00 0.00 0.00	0.00	-		0 0 0			3	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-		0 0	 	- - -	- 3 - 2 - 3 - 2	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	
Habitat Moar Fishor's Stouffer's	Power				ower-		0.00	P-value P-value		Power			Powe	0.00 er-50% er-50%		P-value P-value		Power Power		 		r-50% r-50%		P-value P-value	

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

Table 0-5.322, Page 3, December 15, 1994 Cryptosiphonia woodii (3)

		м	orpholo	gical	Grou	p: Coar	se Filam	ento	us Redi	5		A	rticu	late C	oralline	Algae (A)				Cry	ptosip	honia woo	dii (A)		
Site Pair	NV1	N	С	SE	М	0	SE		OV D	P	N	С	SE	N	0	SE	CA D	P	N	с	SE	Ŋ	0	SE	CA D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522		0			0 3 3 3	0.00	0.	00 00 00	- - -		0 0 0	 	- - -	- 0 - 3 - 3 - 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-		0000			0 3 3 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	
Habitat Mea Fisher's Stouffer'		Power Power		-		0.00 wer-50% wer-50%		P-1	value value		Power Power		-		er-50% er-50%		P-value P-value		Power Power				er-50% er-50%		P-value P-value	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2	0 0 0 0			0 3 3 3	0.00	0. 0. 0.	00 00 00	- - - -		0 0 0		-	- 0 - 3 - 3 - 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- - -		0 0 0 0			0 3 3 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		
Habitat Mea Fisher's Stouffer'		Power Power		-		0.00 wer-50% wer-50%	0.	P-	value value		Power Power				0.00 er-50% er-50%		P-value P-value		Power Power			Pow	er-50% er-50%		P-value P-value	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	41 41 43 43 43	0 0 0 0			0 3 2 3	0.00 0.00 0.00 0.00	0.	00	- - - -		0 0 0 0	 	-	- 0 - 3 - 2 - 3 - 2	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-		00000			0 3 2 3 2	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	
Habitat Mea		Power Power				8.75 wer-50% wer-50%			value value		Power Power	 			0.00 er-50% er-50%		P-value P-value		Power Power			Pow	er-50% er-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-5.322. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. Cleared August 1989. (Continued.)

			Endoclad	ia muricat	ta (P)					Gloid	pelt:	is furcat	a (A)					Neorhod	omela/	Rhodome1	a (P) (a	ı)	
Site Pair M	tvd N	C SI	e N	0	SE	CV D	P	N	C S	3E	N	0	SE	CV D	P	N	С	SE	Ŋ	٥	SE	CV D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 0 1 0 1 0 1 0 1 0		0 3 3 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-		0 0 0 0	 		0 3 3 3 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -		0 0 0			3 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	
Habitat Means Fisher's Stouffer's	Power Power			0.00 er-50% er-50%		P-value P-valuc		Power Power			Power Power			-value		Power			Power	0.00 -50% -50%		P-value P-value	
4825C/1424 453C/453 601C/601	2 0 2 0 2 0 2 0 2 0 2 0	 	0 3 3 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-		0 0 0			0 3 3 3 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-		0 0 0 0	 		3 3 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	
Habitat Means Fisher's Stouffer's	Power			0.00 er-50% er-50%		P-value P-value		Power Power			Power Power			-value -value		Power Power			Power Power	0.00 r-50% r-50%	1	P-value P-value	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 0 3 0 3 0 3 0 3 0	 	0 3 2 3 2	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- -		0 0 0	 		0 3 2 3 2	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-		0 0 0 0	 		3 2 3 2	0.00 0.00 0.00 35.00	0.00 0.00 0.00 35.00	-	
Habitat Mean Fisher's Stouffer's	Power	 		0.00 er-50% er-50%		P-value P-value		Power Power			Power Power			P-value P-value		Power Power			Power	8.75 r-50% r-50%		P-value P-value	

(a) Cenera not apparated. x At least one sits pair p-value < 0.190 in opposite direction of overall tasks. y Direction of difference between habitat means is different than direction of overall tests. x Only one site pair.

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

z Only one sit≎	patr.			Ođo	ntha1	ia flocco	a (P)				1	tilota/	Neoptilota	(P) (b)				Mo	rpholo	gical (Proup: 8	accate i	Ređs	
Site Pair	Mvd	И	c	gE	N	0	SE	CV D	P	N	C E	BB N	0	SE	CV D	P	N	С	SE	И	0	SE	CV D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	0 0 0 0 0		- - - -	- 3 - 3 - 3	0.00 0.00 0.00	0.00 0.00 0.00 0.00	-		0 0 0	 	0 3 3 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-		0 0 0		-	-	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		
Habitat Mea Fisher's Stouffer'	1	Power Power		-	Powe	0.00 er-50% er-50%		P-value P-value		Power Power			0.00 wer-50% wer-50%		P-value P-value		Power Power		_		r-50% r-50%		P-value P-value	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2	0 0 0	=======================================	- - -	- 0 - 3 - 3 - 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-		0 0 0 0	 	0 3 3 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-		0 0 0 0		-	- 0 - 3 - 3 - 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	
Habitat Mea	ans	Power				0.00 er-50%		P-value		Power			0.00 wer-50% wer-50%		P-value P-value		Power Power		-		0.00 r=50% r=50%		P-value P-value	
Stouffer' 4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3 3 3	Power 0 0 0 0 0		- - -	Power 0 - 3 - 2 - 3 - 2	0.00 0.00 0.00 0.00	0.00 0.00 0.00	P-value - - - - -		0 0 0 0 0 0	 	0 3 2 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -		0 0 0 0		- - - -	- 0 - 3 - 2 - 3	0.00 0.00 0.00 1.25	0.00 0.00 0.00 1.25	-	
Habitat Mea Fisher's Stouffer'		Power Power				0.00 er-50% er-50%		P-valuc P-value		Power Power	 		0.00 ower-50% ower-50%		P-value P-value		Power				0.33 r-50% r-50%		P-value P-value	

⁽b) Coners not separated.

x At least one site pair p-value < 0.100 in opposite direction of 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. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. Cleared August 1989. (Continued.)

				налов	accio	n glandifo	orme (A)						н	Malosaco	cion spp.	(A)				Morpho	logica	l Group	: fine	Filament	ous Reds	
Site Pair	Mvd N		С	SE	N	0	SE		D	P	N	c	SE	Ŋ	0	SE	CA D	P	N	С	SE	N	0	SE	CA D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 (1 (1 (1 (1 (- 3 - 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -			0 0 0 0	 	-	0 3 3 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-		0 0 0 0		-	- 0 - 3 - 3 - 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	
Habitat Mca Fisher's Stouffer'	Po	ower ower			Powe	0.00 er-50% er-50%		P-val P-val			Power Power			Powe:			P-value P-value		Power Power			Powe Powe	r-50% r-50%	I	P-value P-value	
4825C/1424 453C/453 601C/601 598C/598	2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2	0	 		- 3 - 3 - 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- - -			0 0 0		-	0 3 3 3	0.00	0.00 0.00 0.00 0.00	-		0 0 0	 		0 3 3 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	
1522C/1522 Habitat Mea	_	U		-	-	0.00	0.00							 Davis	0.00 r-50%	0.00	P-value		Power			 Powe	0.00 r-50%	0.00	P-value	
Fisher's Stouffer'		ower				er-50% er-50%		P-val P-val			Power Power		-	Powe	r-50%		P-value		Power	-		Powe	r-50%	!	P-value -	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3	0 0 0 0	 	-	- 3 - 2 - 3	0.00 0.00 0.00 1.25	0.00 0.00 0.00 1.25	-			0 0 0	 		0 3 2 3 2	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -		0 0 0			3 2 3 2	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	
Fisher's Stouffer	P	ower				0.33 er-50% er-50%	0.33 	P-val			Power Power		-		0.00 r-50% r-50%		P-value P-value		Power Power		 		0.00 r-50% r-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 habital means is different than direction of overall tests. z Only one site pair. Crustose Coralline Algae (P) Morphological Group: Crustose Reds Polysiphonia/Pterosiphonia (A) (a) N C SE CV D P ¢ SE SE CV D P CV D Þ N SE c Site Pair Mvd N ---4825C/1424 0.00 0.00 ___ 0.00 0.00 0.00 0.00 ā 453C/453 0.00 0.00 0.00 -------0.00 0.00 -----0.00 601C/601 0 ---0.00 0.00 ----0.00 0.0 _---0.00 ___ 0.00 598C/598 0.00 0.00 0 --3 0.00 0.00 0.00 0 ----1522C/1522 --0.00 0.00 0.00 0.00 0.00 ----0.00 Habitat Means --Power-50% --- P-value Power-50% P-value Power ------ P-value Power Power-50% Fisher's Power ---Power-50% --- P-value Power-50% P-value ___ Power ---Power-50% P-value ---Power Stouffer's Power ---4825C/1424 --0.00 0.00 ---0.00 0.00 ---0.00 0.00 --453C/453 Ð --0.00 0.00 ---0.00 0.00 ---0 0.00 0.00 -----601C/601 Ô --0.00 0.00 ---0.00 0.00 ---0 0.00 0.00 ---0 598C/598 Ω 0.00 0.00 ---0.00 0.00 Ð 0.00 0.00 ---1522C/1522 2 O 0.00 0.00 0.00 0.00 0.00 0.00 Habitat Means --- P-value Power-50% Power-50% --- P-value Power Power --- P-value Fisher's Power-50% Power Power-50% ---P-value ---Power Power Power-50% --- P-value Power-50% --- P-value Stouffer's Power ---4825C/1424 O --0.00 0.00 ---0.00 0.00 ---0.00 0.00 453C/453 Ω 0.00 0.00 -----0.00 0.00 -----0.00 0.00 -----601C/601 0 0.00 0.00 ------0.00 0.00 0.00 0.00 ---598C/598 0 0.00 0.00 ___ 0.00 0.00 1522C/1522 0.00 0.00 0 0.00 0.00 0.00 0.00 0.00 0.00 Habitat Means Power-50% --- P-value --- P-value Power Power-50% Power Power-50% --- P-value Fisher's Power --- P-value Power Power-50% --- P-value Power-50% Power --- P-value Stouffer's Power Power-50%

(a) Genera not separated.

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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 habital means is different than direction of overall tests.
z Only one site pair.

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

				Hi	ldenb	randia sp	. (P)					1	Petro	celis (E	?)									
Site Pair N	fvd	N	c	SE	N	0	SE	CV D	P	N	С	Sg	N	a	SE	CV D	P	- -	<u> </u>	SE	N		 CV D	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1	0 0 0			3 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -		0 0 0 0			0 3 3 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-							 	
Habitat Means			~-			0.00	0.00				-~			0.00	0.00									
Fisher's Stouffer's		ower ower				r-50% r-50%		P-value P-value		<i>Power</i> Power			Power Power			~value ~value		Power Power			Power-		 	
453C/453 601C/601 598C/598	2 2 2 2 2	0			3 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00			0 0 0			0 3 3 3	0.00 0.00 0.00	0.00 0.00 0.00	- - - -					. 0462	J01	F-V0110	
Habitat Means	3					0.00	0.00							0.00	0.00									
Fisher's Stouffer's		ower.				x-50% x-50%		P-value P-value		Power Power			ower			-value -value		Power Power			Power- Power-		P-value	
453C/453 601C/601 598C/598	3	0	 	 	3 2 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -		0 0 0			0 3 2 3 2	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -		70,101			rower-	50 %	 Prvalue	
Fisher's Stouffer's		ower ower			Power		I	-value -value		Power Power		P	ower-	-50%		-value -value		Power Power			Power- Power-		 P-value P-value	

x. At least one site pair p-value < 0.100 in opposite direction of overall (wats. y Direction of difference between habital means is different char direction of overall tests. 2 Ohly 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.

					Baí	anomorpha	L					1	Lottiidae							,	fytilus			
Site Pair	Mvd	N	С	SE	N	0	SE	CV D	P	N	С	se n	0	SE	CV D	P	N	С	SE	Ŋ	0	SE	CV D	P
4825C/1424 453C/453	1	0				0.00	0.00			0		0 3	0.00	0.00			0				0.00	0.00	-	
601C/601	ī	0				0.00	0.00	_		ñ		3	0.00	0.00			ñ		-		0.00	0.00		
598C/598	ī	ō	-~		- 3	0.00	0.00	-		O.		3	0.00	0.00			ō			- 3	0.00	0.00	_	
1522C/1522	1	G	-~		- 3	2.50	1.44	-		D		3	0.00	0.00	-		0	~ -		- 3	0.00	0.00	-	
Habitat Mean	ns		-~			0.63	0.35						0.00	0.00						-	0.00	0.00		
Fisher's		Power				r-50%		P-value		Power			er-50%		P~value		Power	~-	-	Powe	r-50%	}	-value	
Stouffer's	5	Power			Powe	r-50%		P-value		Power		₽ow	er-50%		P-value		2ower	~-	-	Powe	r~50%		P-value	
4825C/1424	2	0			- 0			-		0		O		-~	_		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	-		٥		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 Mean	ns		-~			5.23	3.13						0.00	0.00						-	1.88	1.18		
Fisher's		Power			Powe	r-50%		P-value		Power			er-50%		P-value		Power	~-	-	Powe	r-50%]	P-value	
Stouffer's	S	Power			Powe	r-50%		P-value		Power		Pow	er-50%		P-value		Power		~	Powe	r-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 Mear	11.5				-	3.02	3.02						0.00	0.00						-	4.80	4.18		
Fisher's		Power			Powe	r-50%		P-value		Power		Pow	er-50%		P-value		Power	~-	_	Powe	r-50%	1	P-value	
Stouffer's		Power				r-50%		P-value		Power			er-50%		P-value		Power	~-			r-50%		2-value	

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

Table C-5.323. Page 1. December 15, 1994

		Nucella lame	llosa			Littorinidae			Mollusca	
fite Pair Mud N	C SR	N O	SE CVDP	N	e s	e n o	SE CV D P			ćv
453C/453 1 0 601C/601 1 0 598C/598 1 0 1522C/1522 1 0		3 0.00 3 0.00 3 0.00	0.00 0.00 0.00	0 0 0	 	3 0.00 3 0.00 3 0.00 3 0.00	0.00 0.00 0.00	0 0 0 0	3 0.00 3 0.00 3 0.00 3 0.00	0.00 0.00 0.00 0.00
Habitat Means		0.01	0.00			0.00	0.00		0.00	0.00
Fisher's Power Stouffer's Power		Power-50% Power-50%		Power		Power-50% Power-50%	P-value P-value	Power		P-value P-value
4825C/1424 2 0 453C/453 2 0 601C/601 2 0 598C/598 2 0 1522C/1522 2 0	 	0 3 0.00 3 0.00 3 0.00 3 0.00	0.00 0.00 0.00	0 0 0 0	 	0 3 0.00 3 0.00 3 0.00 3 0.00	0.00 0.00 0.00	0 0 0 0 0	0 3 0.00 3 0.00 3 0.00 3 0.00	0.00 0.00 0.00 0.00
Habitat Means		0.00	0.00			0.00	0.00	==	0.00	0.00
Fisher's Power Stouffer's Power		Power-50% Power-50%		Power		Power-50% Power-50%	P-value P-value	Power	20110# 500	P-value P-value
4825C/1424 3 0 453C/453 3 0 601C/601 3 0 598C/598 3 0 1522C/1522 3 0	 	0 3 0.00 2 0.00 3 0.00 2 0.00	0.00 0.00	0 0 0 0		0 3 0.00 2 0.00 3 0.00 2 0.00	0.00 0.00 0.00	0 0 0 0 0	0 3 0.00 2 0.00 3 0.00 2 0.00	0.00 0.00 0.00 0.00
Habitat Means		0.00	0.00			0.00	0.00	- -	0.00	0.00
Fisher's Power Stouffer's Power		Power-50% Power-50%	2 14225	Power		Power-50% Power-50%	P-value P-value	Power Power	20.0- 300	P-value P-value

 $[\]kappa$ At least one site pair p value < 0.100 in opposite direction of overall tests. y olirection of difference between Ambitat means is different than direction of overall tests. 2 Only one site pair.

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.

					Rock						o	iled Rock							Sand		
Site Pair Mvd 1	N	С	SE	N	0	SE	CV D	P	N	c i	se n	o	SE	CV D	P	N	С	se 1	1 0	SE CV D	Р
601C/601 1 598C/598 1	0		 	3	93.33 91.67 99.17 96.67	6.67 5.07 0.83 0.83	- - - -		0 0 0 0	 	0 3 3 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-		0 0 0	 	(3 3	0.00 0.00 0.00 0.00	0.00 - 0.00 - 0.00 - 0.00 -	
Habitat Means					95.23	3.35						0.00	0.00						0.00	0.00	
	ower				r-50% r-50%		P-value P-value		Power Power			er-50% er-50%		-value -value		Power Power			ower-50% ower-50%	P-value P-value	
453C/453 2 601C/601 2 598C/598 2	0 0 0 0			3 3	77.50 67.50 65.83 59.17	3.82 26.26 31.70 28.37	- - - -		0 0 0		0 3 3 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -		0 0 0 0		(0.00	0.00 - 0.00 - 0.00 - 0.00 -	
Habitat Means					67.50	22.55						0.00	0.00					· -	0.00	0.00	
	ower	-			r-50% r-50%		P-value P-value		Power Power			er-50% er-50%		-value -value		Power Power			ower-50% ower-50%	P-value P-value	
453C/453 3 601C/601 3 598C/598 3	0 0 0 0		 	3 2 3	88.33 52.50 26.67 5.00	6.51 45.00 19.22 5.00	-		0 0 0 0	 	0 3 2 3 2	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -		0 0 0 0		! : :	0.00 2 31.25 3 0.00 2 0.00	0.00 - 31.25 - 0.00 - 0.00 -	
Habitat Means					43.12	18.93						0.00	0.00						7.83	7.83	
	ower				er-50% er-50%		P-value P-value		Power Power			er-50% er-50%		-value -value		Power Power			ower-50% ower-50%	P-value P-value	

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

Table C 5.321. Page 1. December 15, 1994

					She1	1 Fragmen	te						Water						Zo	stera	/Phyllosp	xiba		
ite Pair	Mvd	1 N	c	SE	N	0	SE	CV D	P	N	С	se n	0	SE	ĊV D	P	N	c	SE	N	0	SE	CV D	P
825C/1424 53C/453 01C/601 98C/598 522C/1522	1 1 1 1		 	-	- 0 - 3 - 3 - 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	 	0 0 0 0		0 3 3 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-		0 0 0 0		 	· 3 · 3 · 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	
abitat Mear	ns	Power			- Doug	0.00 er-50%	0.00	P-value		Power		 Pow	0.00 er-50%	0.00	-value		Power		_		0.00 r-50%	0.00	e-value	
Fisher's Stouffer's	Ş	Power				er-50%		P-value		Power			er-50%	I	-value		Power		-	Powe	r-50%	3	?-value	
825C/1424 53C/453 01C/601 98C/598 522C/1522	2 2 2 2 2	0 0 0	 	-	- 0 - 3 - 3 - 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- -		0 0 0 0	 	0 3 3 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -		0 0 0 0	 		- 3 - 3 - 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	
abitat Mear	ns			-	-	0.00	0.00						0.00	0.00							0.00	0.00		
Fisher's Stouffer's		Power Power				er-50% er-50%		P-value P-value		Power Power			er-50% er-50%		P-value P-value		Power Power				r-50% r-50%		P-value P-value	
825C/1424 53C/453 01C/601 98C/598 522C/1522	3 3 3 3	0	 	-	- 0 - 3 - 2 - 3 - 2	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	 	0 0 0	 	0 3 2 3 2	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	 	0 0 0 0	 		- 3 - 2 - 3 - 2	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	
abitat Mean Fisher's Stouffer's		Power Power		-		0.00 er-50% er-50%		P-value P-value		Power Power			0.00 er-50% er-50%		P-value P-value		Power Fower		_	Powe	±-50% ±-50%	1	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 habital means is different than direction of overall tests. 2 Only one site pair.

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

					Sa	nd and Mu							Tota	1 Substra	te										
Site Pair	Mvć	a n	С	ge	N	٥	SE	CV D	P	N	С	SE	N	0	SE	CV D	· P	N	С.	SE.	N N	0	SE	CV D	
4625C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1	0 0		-	- 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00	0 - 0 - 0 -		D 0 0			- 3 - 3	93,33 91.67 99.17 96.67	6.67 5.07 0.83 0.83	-									
Habitat Mean	ns			-	-	0.00	0.00	0				_	_	95.23	3.35										
Fisher's Stouffer's		Power				er-50%		P-value P-value		Power Power				r-50% r-50%	I	P-value P-value		Power Power			Power			P-value P-value	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	0			- 3 - 3 - 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00	0 - 0 - 0 -		0 0 0		- - -	- 3 - 3 - 3	77.50 67.50 65.83 59.17	3.82 26.26 31.70 28.37									· VIII	
Habitat Mean	ns			-	-	0.00	0.00)				_	_	67.50	22.55										
Fisher's Stouffer's		Power Power				er-50% er-50%		P-value P-value		Power Power				r-50% r-50%	~ P	-value		Power			Power Power			P~value P~value	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3 3	0	 		- 3 - 2 - 3	0.00 31.25 0.00 0.00	0.00 31.25 0.00) - 5 -) -		0 0 0	 		- 3 - 2 - 3	88.33 83.75 26.67 5.00	6.51 13.75 19.22 5.00	- - -								r -varac	
Habitat Mean	n.e				-	7.83	7.83	3		•			_	50.95	11.13										
Fisher's Stouffer's		Power Power				er-50% er-50%		P-value P-value		Power Power			Powe	r-50% r-50%		-value -value		Power Power			2ower ⊃ower			P~value	

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

Table C-5.325. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. May 191. Overstory removed May 1990.

Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drog; 1 = sample size; C = control mean; CV = coefficient of variation; SE = standard error; D = direction of difference; · = control > oiled; - = control < oiled; o = control = ilid; P = probability value; dashes = insufficient data.

				Alga1	Dive	rsity Ir	ndex (a)						Alga:	l Tax	ka Richn	eas (b)							Tot	al Algae				
Site Pair	Mvd	N	c	SE	N	0	SE	CV	D	P	и	С	gz	N	0	,B	CA	D	P	N	С	SE	N	0	SE	C.	7 D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6 6 6	0.15 0.09 0.07 0.05 0.00	0.06 0.06 0.07 0.05 0.00	6 6	0.00 0.14 0.00 0.00 0.12	0.00 0.05 0.00 0.00	-	+	0.076 0.531 0.363 0.363 0.210	6 6 6 6	1.33 1.50 0.83 0.50 0.33		6 6	0.50 1.50 0.33 0.00 1.33	0.22 0.34 0.21 0.00 0.42	- -) -	+ 0 + 1	0.065 1.000 0.484 0.203 0.060	6 6 6 6	25.83 15.00 9.58 10.42 0.83	8.53 5.92 6.72 7.81 0.53	6 6 6	12.50 13.75 1.67 0.00 21.67	7.53 4.60 1.05 0.00 7.98) - 5 -) - 3 -	 - +	0.234 0.972 0.417 0.200 0.016
Habitat Mea	ıns		0.07	0.05		0.05	0.03		+			0.90	0.42		0.73	0.2	1	+			12.32	5.88		9.94	4.24		. +	
Fisher's Stouffer'	g	Power Power	0.099		Power			P-val P-val		0.164	Power Power	0.269 0.051			r-50% r-50%	0.117	P-va. P-va.		0.108× 0.155	Power Power	0.162			r-50% r-50%				0.198× 0.194
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2	5 6 6 6	0.31 0.17 0.00 0.02 0.15	0.09 0.09 0.00 0.02 0.11	6 6	0.17 0.07 0.07 0.01 0.38	0.06 0.07 0.07 0.01 0.13	- - - -	-	0.225 0.416 0.363 0.789 0.202	5 6 6 6	3.00 2.17 0.83 0.83 1.60	0.71 0.60 0.17 0.31 0.68	6 6	2.17 1.50 0.83 0.83 3.50	0.40 0.73 0.40 0.33	2 - 3 - L -	0	0.341 0.493 1.000 1.000 0.122	5 6 6 5	49.00 43.33 10.42 7.50 25.50	13.55 16.13 4.30 6.02 14.82	6 6	45.83 26.67 12.08 19.17 68.75	15.16 9.30 10.01 5.82	5 - 1 -	- ·	0.923 0.483 0.735 0.350 0.051
Habitat Mea		-	0.13	0.06		0.14	0.07		+			1.69	0.49		1.77	0.5	7	+			27.14	10.96		34.52	11.24	4	-	
Fisher's Stouffer'		Power	0.103 0.022		Power			P-val P-val		0.442 y 0.370	Power Power	0.196 0.070			er-50% er-50%	0.189	P-va P-va		0.510	Power Power	0.17 0.11			r-50% r-50%				0.147 0.205
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3	2 5 4 6 5	0.72 0.61 0.50 0.42 0.44	0.01 0.04 0.08 0.09 0.08	4 6	0.59 0.00 0.32 0.35 0.36	0.05 0.00 0.09 0.12	-	,	0.186 0.000 0.169 0.601	2 5 4 6 5	6.50 5.60 4.00 3.50 3.60	0.50 0.24 0.71 0.76 0.51	4 4 6	6.17 0.00 3.00 3.50 4.00	0.6 0.0 0.4 0.8	0 - 1 - 5 -	1	0.776 0.000 0.267 1.000	2 5 4 6 3	86.25 71.00 73.75 46.25 68.00	13.75 14.35 12.81 14.94 11.49	4 4 6 1	92.50 0.00 81.25 71.67 95.00	4.63 0.00 13.56 14.30	0 6 4	 	0.693 0.006 0.521 0.210
Habitat Mea	ans		0.54	0.06		0.32	0.06		-			4.64	0.55		3.33	0.4	6	+			69.08	13.48		68.10	8.15		-	
Fisher's Stouffer'	's	Power Power			Power			P-val P-val		0.000	Power Power				er-50% er-50%	:	P-va P-va			Power Power				er-50% er-50%				0.315xy 0.616

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z Only one sine pa	ne site pair. Total Invertebrates										Rock									Perennials (P)											
Site Pair 1	Mvd	N	С	SE	N .	O	SE	cv	Þ	P	N	С	SE	N	0	IE	CV	ם	P	N	С	SE	n	0	SE	Ċ	V D	P			
	1 1 1	6 6 6	0.00 5.42 11.67 1.25 15.42	0.00 3.56 5.61 0.85	6 6	10.83 3.33 3.75 4.17 20.00	8.98 1.54 1.55 2.01 6.61	-	-	0.224 0.892 0.222 0.217 0.468	6 6 6	74.17 79.58 78.75 88.33 83.75	8.53 6.69 11.61 7.68 10.34	6 6	76.67 82.92 94.17 95.83 58.33	11.36 4.93 2.30 2.01 11.79	_	-	0.736 0.863 0.209 0.594 0.140	6 6 6 6	21.25 10.83 7.08 7.92 0.83	9.05 5.43 4.58 7.92 0.53	6 6 6	7.92 9.58 0.00 0.00 17.50	7.92 4.44 0.00 0.00 7.39)	- + - +	0.136 0.935 0.177 0.363 0.022			
Habitat Means Fisher's Stouffer's		Power Power	6.76 0.209 0.125	4.12		8.42 r-50% r-50%		P-val P-val		0.216 0.178	Power Power	0.122 0.043		Powe	81.58 x-50% x-50%		P-valu P-valu		0.376 0.296	Power Power	9.58 0.168 0.021	5.50	Powe	r-50% r-50%	0.706	P-v		0.126× 0.214			
4825C/1424 453C/453 601C/601 598C/598	2 2 2 2	5 6 6 6 5	4.00 2.92 6.67 16.25 9.50	2.57 1.87 3.86 6.12 3.39	6 6 6	13.33 0.00 10.83 16.67 7.50	8.65 0.00 1.54 6.64 3.68	-	- + -	0.584 0.176 0.128 0.895 0.741	5 6 6 6	47.00 53.75 82.92 76.25 62.00	13.17 16.64 4.81 7.98 12.31	6 6	40.83 73.33 77.08 64.17 23.75	16.07 15.16 8.02 11.29 4.27	-	++	0.749 0.416 0.510 0.582 0.037	5 6 6 5	11.00 30.42 4.58 6.25 14.50	6.25 14.48 2.27 5.76 5.56	6 6	15.42 14.17 7.92 18.75 28.75	8.25 4.41 5.30 9.63 10.53	3	- ·	0.607 0.283 0.775 0.228 0.209			
1522C/1522 Habitat Mean	าธ		7.88	3.58		9.66 r-50%	4.10		-	0.383	Power	64.40	10.98		55.84 er-50%		P-valu			Power	13.36		Powe	17.02 er-50%		P-v		0.200			
Fisher's Stouffer's		Power Power	0.050			r-50%		P-va		0.601	Power	0.24	5	Powe	r-50%		P-valu			Power	0.192			er-50%		_		0.222			
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3	2 5 4 6	0.00 2.00 2.50 3.33 5.00	0.00 2.00 2.50 1.79 1.58	4 4 6	0.42 0.00 14.37 1.67 0.00	0.42 0.00 12.76 0.83	- - -	-	0.363 0.374 0.423 0.637	2 5 4 6 5	13.75 27.00 23.75 40.00 27.00	13.75 13.56 10.48 16.28 10.23	4 4 6	7.08 100.00 4.37 26.67 5.00	4.54 0.00 2.95 13.58	- -	- +	0.669 0.005 0.088 0.479	2 5 4 6 5	8.75 31.00 25.63 10.83 28.50	8.75 12.98 16.02 4.68 5.57	4 4 6 1	32.92 0.00 23.13 15.42 20.00	7.62 0.00 10.48 4.72	9 2 -	 - + - +	0.019 0.976 0.421			
Habitat Mean	28		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 Stouffer's		Power Power	0.012 0.013			r-50% r-50%		P-va P-va		0.463 0.705	Power Power	0.20 0.05			er-50% er-50%		P-valu P-valu		0.185 _{×y} 0.695	Power Power	0.174 0.099			er-50% er-50%				0.183× 0.346			

⁽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 nabitat means is different chan direction of overall tests.
z Only one site pair.

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

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

					Ann	mals (A))							Ephes	erals (AE)												
Site Pair	Mvc	dи	С	Se	N	0	SE	CV	ū	P	N	С	SE	N	0	8 <u>g</u>	cv	D	P	N	С	SE	N	0	SE	CV I	,	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1	6 6 6 6	4.58 4.17 2.50 2.50 0.00	2.92 2.93 2.50 2.50 0.00	6 6 6	4.58 4.17 1.67 0.00 4.17	2.9 1.7 1.0 0.0 4.1	9 – 5 – 0 –	•	1.000 0.531 0.916 0.363 0.363	6 6 6 6	0.00 0.00 2.08 0.00 0.00	0.00 0.00 2.08 0.00 0.00	6 6	4.58 2.50 0.00 0.00 2.08	2.9: 2.0: 0.0: 0.0: 2.0:	1 - 0 -	- + 0	0.175 0.213 0.363 1.000 0.363									
Habitat Mea	ans		2.76	2,16		2.94	2.0	0	+			0.42	0.42		1.84	1.40)	-										
Fisher's Stouffer'	's	Power Power				r-50% r-50%				0.689 у 0.417	Power Power	0.047 0.057			r-50% r-50%		P-valu P-valu			Power Power				r-50% r-50%		P-value P-value		
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2	5 6 6 5	38.00 12.92 5.83 1.25 11.00	12.38 11.93 4.90 0.56 9.80	6 6	30.42 12.50 4.17 0.42 40.00	17.3 12.5 4.1 0.4 13.8	0 - .7 - .2 -	+	0.512 0.844 0.726 0.260 0.145	5 6 6 5	36.00 6.25 5.83 0.42 10.00	11.58 6.25 4.90 0.42 8.80	6 6	30.00 11.67 4.17 0.42 35.00	17.1: 11.6: 4.1: 0.4: 12.9:	7 – 7 - 2 –	- + 0	0.538 0.786 0.726 1.000 0.160									
Habitat Mea	ms		13.80	7.92		17.50	9.6	8	-			11.70	6.40		16.26	9.2	3	-										
Fisher's Stouffer'	s	Power Power				r-50% r-50%	0.632 0.556			0.380 y 0.198	Power Power	0.057 0.072			r-50% r-50%	0.502 0.328				Power Power			Power Power	c-50% c-50%		P-value P-value		
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3	2 5 4 6 5	77.50 40.00 48.13 35.42 39.50	22.50 10.37 14.23 11.57 13.29	4 4 6	59.58 0.00 58.13 56.25 75.00	8.4 0.0 20.0 13.9	0 -	+	0.240 0.004 0.757 0.339	2 5 4 6 5	61.25 23.00 39.38 30.00 31.00	18,75 9,95 9,09 11,11 13,73	4 4 6	38.33 0.00 53.13 49.58 75.00	7.3! 0.00 19.10 13.0!) - 5 - 5 -	-	0.197 0.038 0.628 0.329									
Habitat Mea	ms		48.10	14.40		49.80	10.6	3	+			36.94	12.54		43.20	9.9	3	+										
Fisher's Stouffer'	S	Power Power				r-50% r-50%	0.877			0.020 y 0.182	Power Power	0.165			r-50% r-50%	0.361			0.091 y 0.338	Power			Power Power			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 objects. Chily one site pair.

Table C-5.326. Algal Percent Cover. Chlorophyta. Prince William Sound. Shaltered 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.

				Ŧ	otal C	hloropi	yta					Morp	hologi	cal	Group:	Bladed Gr	eens					Blac	ded G	reens (A	E) (a)			
Site Pair	Mvc	4 N	С	SE	N	٥	SE	cv	D	P	N	c	SE	N	0	Sg	cv	D	P	N	С	SE	N	0	SE	C	v D	Þ
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6 6 6	0.00 0.00 1.67 0.00 0.00	0,00 0.00 1.67 0.00 0.00	6 6	2.08 2.50 0.00 0.00 2.08	2.08 2.94 0.00 0.00 2.08	-) -	+	0.363 0.213 0.363 1.000 0.363	6 6 6 6	0.00 0.00 1.67 0.00 0.00	0.00 0.00 1.67 0.00 0.00	6 6	0.00 2.50 0.00 0.00 2.08	0.00 2.04 0.00 0.00 2.08	-	- + 0	1.000 0.213 0.363 1.000 0.363	6 6 6	0.00 0.00 1.67 0.00 0.00	0.00 0.00 1.67 0.00 0.00	6 6	0.00 2.50 0.00 0.00 2.08	0.00 2.04 0.00 0.00 2.08	1))	- 0 - + - 0	1.000 0.213 0.363 1.000 0.363
Habitat Mea	ıns		0.34	0.34		1.34	1.24	ı	-			0.34	0.34		0.92	0.82		-			0.34	0.34		0.92	0.82	?	-	
Fisher's Stouffer'	· s	Power Power	0.003 0.014		Power Power			P-val P-val		0.219 0.222	Sower	0.000			er-50% er-50%		P-valı P-valı		0.352 0.261	Power Power	0.000 0.001			er-50% er-50%				0.352 0.261
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	6 6 6	9.00 6.25 0.83 0.00 5.50	5.04 6.25 0.83 0.00 4.36	6 6 6	2.92 11.67 1.25 0.00 14.38	2.45 11.67 1.25 0.00 7.10	- - -	0 1	0.281 0.786 0.887 1.000 0.297	5 6 6 5	7.00 5.42 0.83 0.00 5.50	5.33 5.42 0.83 0.00 4.36	6 6 6	2.92 11.25 0.00 0.00 14.38	2.45 11.25 0.00 0.00 7.10	-	o	0.569 0.760 0.363 1.000 0.297	5 6 6 5	7.00 5.42 0.83 0.00 5.50	5.33 5.42 0.83 0.00 4.36	6 6	2.92 11.25 0.00 0.00 14.38	2.45 11.25 0.00 0.00 7.10	5))	- + - + - 0	0.569 0.760 0.363 1.000 0.297
Habitat Mea	ns		4.32	3.30		6.06	4.52		-			3.74	3.18		5.72	4.18		-			3.74	3,18		5.72	4.18	3	-	
Fisher's Stouffer'	s	Power Power	0.019 0.027		Power Power			P-val P-val		0.532 0.404	Power Power	0.013			er-50% er-50%	0.108			0.609 0.465	Power Power	0.012 0.006			er-50% er-50%				0.609 0.165
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	6	51.25 22.00 19.37 15.00 23.50	11.25 9.89 10.67 7.56 21.47	4	29.17 0.00 44.37 27.92 70.00	7.95 0.00 21.15 15.19) - - -		0.217 0.040 0.316 0.517	2 5 4 6 5	22.50 21.50 5.63 14.17 21.50	2.50 9.89 4.83 7.82 11.74	4	24.17 0.00 44.37 27.92 70.00	7.92 0.00 21.15 15.19	- - -	- + - -	0.979 0.041 0.098 0.440	2 5 4 6 5	22.50 21.50 5.63 14.17 21.50	2.50 9.89 4.83 7.82	4 4 6	24.17 0.00 44.37 27.92 70.00	7.92 0.00 21.15 15.19) 5 9	 - + 	0.979 0.041 0.098 0.440
Habitat Mea	ns		26.24	10.20		34.30	11.10)	+			17.06	7.34		33.30	11.08		-			17.06	7.34		33.30	11.08	3	-	
Fisher's Stouffer'	s	Power Power	0.226		Power Power					0.105 y 0.295	Power Power	0.105 0.019			er-50% er-50%	0.444	P-valı P-valı			Power Power	0.111	_		er-50% er-50%				0.230x 0.540

is) Korymannia, Monostroma, Diva and Ulvaria. x At least one site pair p-value < 0.100 in opposite direction of overall tests. y Direction of difference between habital means is different than direction of overall tests. z Only one eith pair.

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

			Morpholo	gical (Froup:	Fine Fi	Llament	ous Gr	ear	18			À¢:	rosig	phonia sp.	(A)					Chi	aetomo	roha/f	hizoclon:	ium (A)	(a)		
Site Pair	Mvc	d N	С	SE	N	٥	SE	CV	D	P	N	С	SE	N	0	8E	CV	D	P	N	С	SE	N	0	SE	CV	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	2.08 0.00 0.00 0.00 0.00	2.08 0.00 0.00 0.00 0.00	-	0	0.363 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	00000	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	 - - -	0	1.000 1.000 1.000 1.000 1.000
Habitat Mea	ins		0.00	0.00	•	0.42	0.42		-			0.00	0.00		0.00	0.00		0			0.00	0.00)	0.00	0.00		O	
Fisher's Stouffer'	s	Power Power				r-50% r-50%				0.536 0.450	Power Power				er-50% er-50%		P-valı P-valı		0.732 0.500	Power Power				r-50% r-50%				0.73 <i>2</i> 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2	5 6 6 5	0.00 0.83 0.00 0.00	0.00 0.83 0.00 0.00	6 6 6	0.00 0,42 0.00 0.00 0.00	0.00 0.42 0.00 0.00	- - -	0 0	1.000 0.814 1.000 1.000	5 6 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	00000	1.000 1.000 1.000 1.000 1.000	5 6 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	0	1.000 1.000 1.000 1.000
Habitat Mea	ns		0,16	0.16		0.08	0.08		+			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'		Power Power				r-50% r-50%		P-val P-val		0.693 0.450	Power Power				er-50% er-50%		P-valı P-valı		0.732 0.500	Power Power				r-50% r-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3 3	2 5 4 6 5	23.75 0.50 12.50 0.83 2.00	8.75 0.50 10.16 0.83 1.46	4 6	5.00 0.00 0.00 0.00 0.00	2.04 0.00 0.00 0.00	-	+ + + +	0.030 0.374 0.237 0.363	2 5 4 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000 1.000	2 5 4 6 5	0.00 0.00 0.00 0.00 0.50	0.00 0.00 0.00 0.00	4 4 6	2.08 0.00 0.00 0.00 0.00	1.64 0.00 0.00 0.00	-	0	0.204 1.000 1.000 1.000
Habitat Mea	ns		7.92	4.36		1.00	0.50		+			0.00	0.00		0.00	0.00		0			0.10	0.10		0.42	0.40		-	
Fisher's Stouffer'	s	Power Power				r-50% r-50%				0.013 0.037	Power Power				er-50% er-50%		P-val: P-val:		0.698 0.500	Power Power	0.001			r-50% r-50%				0.366 0.429

⁽a) Campris not separated. x ht least one site pair p-welue < 0.100 in opposite direction of 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. (Continued.)

				C?	adoph	ora sp.	(AR)				_		τ	loth:	rix sp. (AE)						σ	rosp	ora sp. (7	(S)			
Site Pair 1	Mvd	l N	c	SE	N	0	SE	CΛ	а	P	N	С	SE	N	0	SE	CV	D	P	N	С	ge	N	0	SE	CV I	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0 – 0 – 0 –	0	1.000 1.000 1.000 2.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	000	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	2.08 0.00 0.00 0.00	2.08 0.00 0.00 0.00 0.00	- 0	0 :	0.363 1.000 1.000 1.000
Habitat Means	s		0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.42	0.42		_	
Fisher's Stouffer's		Power Power				c-50%				0.732 0.500	Power Power				r-50% r-50%		-valu		0.732 0.500	Power Power				r-50% r-50%		-value		
	2 2 2 2 2	6 6 6	0.00 0.83 0.00 0.00	0.00 0.83 0.00 0.00	6 6	0.00 0.42 0.00 0.00 0.00	0.0 0.4 0.0 0.0	2 - 0 - 0 -	0	1.000 0.814 1.000 1.000	5 6 6 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0	1.000 1.000 1.000 1.000	5 6 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- (c - (c - (c	0 :	1.000 1.000 1.000 1.000
Habitat Means	5		0.16	0.16		0.08	0.0	8	•			0.00	0.00		0.00	0.00		D			0.00	0.00		0.00	0.00			
Fisher's Stouffer's		Power Power				r~50% r~50%				0.693 0.450	Power Power				r-50% r-50%		-valu -valu		0.732 0.500	Power Power				r-50% r-50%		-value -value		
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	5 4 6	23.75 0.50 12.50 0.83 1.50	8.75 0.50 10.16 0.83 1.50	4 4 6	2.92 0.00 0.00 0.00 0.00	0.0	0 - 0 -		0.017 0.374 0.237 0.363	2 5 4 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 6 1	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	2 5 4 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- c	1	1.000 1.000 1.000
Habitat Means	s		7.82	4.36		0.58	0.5	0	+			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00			
Fisher's Stouffer's		Power Power			Power Power			P-val P-val		0.008	Power Power				r-50% r-50%		-valu		0.698 0.500	Power Power				r-50% r-50%		value	. (

x. At least one site pair p-value < 0.100 in opposite direction of overall tests. γ Direction of difference between habital means is different than direction of overall tests. 2 OHLy one site pair.

		Mo	rphologic	cal Gr	oup:	Tubular	and Sa	ccate	Gre	ens		B1	idingi	a/Ent	eromorph	a (AE) ((a)											
ite Pair	Mvd	N	С	SĒ	N	0	9E	cv	D	P	N	С	SE	N	0	SE	CV	D	P	H	¢	SE	Ŋ	0	SE	CA	מ	P
010/403 010/601 980/598 5220/1522	1	6 6 6	0.00 0.00 0.00	0.00	6 6	0.00 0.00 0.00	0.0) -) -	0	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	6 6	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000									
abitat Mean	ລຣ		0.00	0.00		0.00	0.0)	0			0.00	0.00		0.00	0.00		0										
Fisher's Stouffer's		Power Power	-~-			r-50% r-50%				0.732 0.500	Power Power				r-50% r-50%		P-valu P-valu			Power Power			Power Power			P-valu P-valu		
8250/1424 530/453 010/601 980/598 5220/1522	2	5 6 6 5	2.00 0.00 0.00 0.00 0.00	2.00 0.00 0.00 0.00	6 6	0.00 0.00 1.25 0.00 0.00	0.0 0.0 1.2 0.0) - 5 -) -	0 - 0	0.374 1.000 0.363 1.000 1.000	5 6 6 5	2.00 0.00 0.00 0.00 0.00	2.00 0.00 0.00 0.00 0.00	6 6	0.00 0.00 1.25 0.00 0.00	0.00 0.00 1.25 0.00 0.00	-	0	0.374 1.000 0.363 1.000									
abitat Mean	វន		0.40	0.40		0.26	0.2	5	-			0.40	0.40		0.26	0.26		_										
Fisher's Stouffer's		Power Power				r-50% r-50%				0.630 y 0.465	Power Power				r-50% r-50%				0.630 y 0.465	Power Power			Power Power			P-valu		
825C/1424 53C/453 01C/601 98C/598 522C/1522	3 3 3 3	4	5.00 0.00 1.25 0.00 0.00	5,00 0.00 1,25 0.00 0.00	4 6	0.00 0.00 0.00 0.00 0.00	0.00	} - } -	0 +	0.500 1.000 0.391 1.000	2 5 4 6 5	5.00 0.00 1.25 0.00 0.00	1.25	4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-		0.500 1.000 0.391 1.000								-	
abitat Mean	15		1.26	1.26		0.00	0.00)	+			1.26	1.26		0.00	0.00		+										
Fisher's Stouffer's		Power Power			Power	c-50%				0.359 0.383	Power Power				r-50% r-50%		e-valu			Power Power			Power Power			P-valu P-valu		

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

Table C-5.327. Algal Percent Cover. Phasophyta. 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.

					Tota!	Phaeopl	oyta					Morp	holog.	ical	Group:	Bladed Br	rowns					Tota	1 Fuc	us gardn	eri (P)			
Site Pair	Myd	N	c	SE	N	0	SE	cv	D	P	N	С	SB	N	0	SE	CV	D	P	N	С	SE	N	0	SE	ĊV	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6 6 6	18.75 11.25 7.92 8.75 0.83	8.18 5.27 5.26 7.79 0.53	6 6 9 6	7.92 10.00 0.00 0.00 17.92	7.93 5.28 0.00 0.00 7.89	3 -	+	0.704 0.180	6 6 6 6	18.75 10.42 7.08 7.92 0.83	8.18 5.14 4.58 7.92 0.53	6 6	7.92 9.17 0.00 0.00	7.92 4.59 0.00 0.00 7.79	- - -	+	0.156 0.819 0.177 0.363 0.043	6 6 6	18.75 10.42 7.08 7.92 0.83	8.18 5.14 4.58 7.92 0.53	6 6	7.92 9.17 0.00 0.00 15.83	7.92 4.59 0.00 0.00 7.79	- -	+ + + + + + + + + + + + + + + + + + + +	0.156 0.819 0.177 0.363 0.043
Habitat Mea	រាន		9.52	5,42	2	7,16	4.22	2	+			9.00	5.26		6,58	4.06		+			9.00	5.26		6.58	4.06		+	
Fisher's Stouffer'		Power Power				er-50% er-50%	0.733	P-va P-va			Power Power				er-50% er-50%	0.733 0.572	P-valu P-valu		0.125× 0.180	Power Power	0.161 0.020			r-50% r-50%		P-val		0.125× 0.180
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	5 6 6 5	37.00 35.00 9.58 6.67 20.00	13.29 14.24 4.58 6.18 10.52	6 6 6	39.27 9.58 10.83 19.17 50.63	15.84 4.25 8.08 10.01	5 - 3 - 1 -	+ - -	0.970 0.097 0.850 0.241 0.078	5 6 6 5	9.50 28.75 4.58 6.25 14.50	5.02 14.62 2.27 5.76 5.56	6 6	13.33 9.58 7.92 18.75 25.63	8.41 4,25 5.30 9.63 12.01	- - -	- - -	0.667 0.182 0.775 0.228 0.376	5 6 6 5	9.50 28.75 4.58 6.25 14.50	5.02 14.62 2.27 5.76 5.56	6 6	13.33 9.58 7.92 18.75 25.63	8.41 4.25 5.30 9.63 12.01	-	-	0.667 0.182 0.775 0.228 0.376
Habitat Mea	១៩		21.66	9.76	5	25.90	9.80)	-			12.74	6.66		15.04	7.92		-			12.74	6.66		15.04	7.92		-	
Fisher's Stouffer'		Power Power				er-50%				0.174x 0.328	Power Power				er-50% er-50%	0.664 0.751	P-valu P-valu		0.287 0.296	Power Power	0.127 0.105			r-50% r-50%	0.648	P-val		0.287 0.296
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	2 5 4 6 5	22.50 28.00 37.50 28.33 38.00	5.00 12.71 8.10 8.72 5.15	4 4 6	43.75 0,00 31.25 36.67 20.00	8.84 0.00 15.89 11.99) - 9 - 5 -	÷ •	0.253 0.024 0.686 0.718	2 5 4 6 5	8.75 21.00 12.50 9.58 24.50	8.75 11.58 6.61 4.81 2.00	4 4 6	31.67 0.00 18.75 13.75 15.00	7.82 0.00 8.93 4.60	-	-	0.096 0.059 0.532 0.553	2 5 4 6 5	8.75 21.00 12.50 9,58 24.50	8.75 11.58 6.61 4.81 2.00	4 4 6	31.67 0.00 18.75 13.75 15.00	7,82 0,00 8,93 4,60	-	+	0.096 0.059 0.532 0.553
Kabitat Mea	ng		30.86	7.94		26.36	9.18	9	+			15.28	6.76		15.86	5.33		-			15.28	6.76		15.86	5,33		-	
Fisher's Stouffer'		Power Power				er-50% er-50%	0.968 0.937			0.146 0.193	Power Power				er-50% er-50%				0.182× 0.568	Power Power	0.222 0.033			r-50% r-50%				0.182× 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, only one site pair.

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				Adult Fu	cus	gardneri	(P) (>	2cm	<u> </u>			Juver	ile F	ucus	gardneri	(P) (<=	2cm)				_	F	1CUB S	Stipes (P)	(a)			
Site Pair	Mvd	N	С	SE	N	0	SE	(CV D	P	N	С	SE	N	0	SE	CA I	, _	P	N	С	SE	N	0	SE	c	V D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1	6 6 6	17.08 8.75 5.42 7.92 0,00	8.12 4.91 3.44 7.92 0.00	6 1 6 2 6	4.58 6.25 0.00 0.00 12.08	4.5 3.6 0.0 0.0 6.5	14 10 10		0.103 0.808 0.175 0.363 0.045	6 6 6 6	1.67 1.67 1.67 0.00 0.83	0.83 0.83 1.67 0.00 0.53	6 6 6 6	3.33 2.92 0.00 0.00 3.75	3.33 1.36 0.00 0.00 2.39	 - +	- 0 + 0	0.883 0.663 0.363 1.000 0.461	6 6 6 6	0.00 0.00 0.00 0.00	0.0	0 6 0 6 0 6 0 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		- 0 - 0 - 0	1.000 1.000 1.000 1.000 1.000
Habitat Means	\$		7.84	4.86	5	4.60	2.9	4	+			1.18	0.76		2.00	1.42	-	-			0.00	0.0)	0.00	0.00		O	
Fisher's Stouffer's		Power Power		29		ver-50% ver-50%	0.397			0.098× 0.169	Power Power	0.075 0.055			r-50% r-50%		P-value P-value).574).423	Power Power				r-50% r-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2	6 6	0.00 28.75 2.50 5.83 12.00	0.00 14.62 1.71 5.83 6.09	6	10.42 9.58 7.50 13.33 19.38	7.0 4.2 5.2 9.9 13.9	5 4 9	~ + ~ -	0.082 0.182 0.456 0.434 0.696	5 6 6 6 5	9.50 0.00 2.08 0.42 2.50	5.02 0.00 2.08 0.42 1.37	6	2.92 0.00 0.42 5.42 6.25	1.64 0.00 0.42 3.44 5.45	- c	0 0 0).333 1.000),619).250	5 6 6 5	0.00 0.00 0.00 0.00 3.00	0.0	0 6 0 6 0 6 0 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		- 0	1.000 1.000 1.000 1.000 0.374
Habitat Means	8		9.82	5,64	l	12.04	8.1	0	-			2.90	1.78		3.00	2.18	-	-			0.60	0.6)	0.00	0.00		+	
Fisher's Stouffer's		Power				ver-50% ver-50%	0.527 0.565			0.143 0.347	Power Power	0.016 0.024			r-50% r-50%		P-value P-value		0.561 0.236	Power Power				er-50% er-50%				0.542 0.427
598C/598	3 3 3 3	4 6	8.75 21.00 8.75 9.58 17.00	8.75 11.58 7.11 4.81 3.98	4 6	31.67 0.00 17.50 10.83 15.00	7.8 0.0 9.6 3.8	0 3 0		0.096 0.059 0.528 0.778	2 5 4 6 5	0.00 0.00 3.75 0.00 7.50	0.00 0.00 2.98 0.00 3.35	4 4 6	0.00 0.00 1.25 2.92 0.00	0.00 0.00 1.25 1.36	- c	- 0	1.000 1.000 0.500 0.078	2 5 4 6 5	0.00 0.00 0.00 0.00	0.0	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		- 0	1.000 1.000 1.000 1.000
Habitat Means	8		13.04	7.26	;	15.00	5.3	0	-			2.26	1.28		0.84	0.68	_	-			0.00	0.0)	0.00	0.00		o	
Fisher's Stouffer's		Power Power				ver-50% ver-50%	0.370 0.379			0.220x 0.662	Power Power	0.011 0.016			r-50% r-50%		P-value P-value			Power Power				r-50% r-50%				0.698 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 cests.</p>
y Direction of difference between hebital means is different than direction of overall tests.
z Only one site pair.

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

			:	Petalo:	niı/N	unctaria	(AE)	(b)			Mo	rphologi	cal Gr	oup:	Coarse	Filament	tous E	Brow	vng			bid	ctyos	iphon sp.	(A)				
Site Pair	Mvd	1 N	c	SE	¥	0	SE		CV D	P	N	С	SE	N	0	SE	СV	D	Р	N	С	SE	N	0	SĒ		CV I		P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5	0.00 0.00 0.00 0.00	0.0 0.0 0.0	00 00 00	- 0 - 0 - 0 - 0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.83 0.42 0.83 0.00	0.00 0.53 0.42 0.83 0.00	6 6	0.00 0.83 0.00 0.00 2.08	0.00 0.83 0.00 0.00 2.08	-	0 0 + + -	1.000 0.767 0.363 0.363 0.363	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0	- c	1 1	.000 .000 .000 .000
Habitat Mea	ns		0.00	0.00		0.00	0.0	00	0			0.40	0.34		0.58	0.58		٠			0.00	0.00		0.00	0.00	0	(
Fisher's Stouffer'	s	Power Power				r-50% r-50%			value value	0.732 0.500	Power Power	0.023 0.049			r-50% r-50%		P-val P-val		0.478 _¥ 0.284	Power Power				r-50% r-50%			value value		.732 .500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5	0.00 0.00 0.00 0.00	0.0 0.0 0.0	00 00 00	- 0 - 0 - 0 - 0		5 6 6 6	1.00 6.25 0.00 0.00	1.00 5.76 0.00 0.00 1.00	6	0.42 0.00 0.00 0.00 4.38	0.42 0.00 0.00 0.00 2.58	-	+ + 0	0.719 0.258 1.000 1.000	5 6 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0	- c	1	.000 .000 .000 .000
Habitat Mea	ns		0.00	0.00		0.00	0.0	00	0			1.66	1.56		0.96	0.60	ı	+			0.00	0.00		0.00	0.00	0	(
Fisher's Stouffer'	s	Power				r-50% r-50%			value value	0.732 0.500	Power Power	0.002			r-50% r-50%		P-val P-val		0.511 0.333	Power Power				r-50% r-50%			value value		.732 .500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4	0.00 0.00 0.00 0.00	0.0 0.0 0.0	00 00	- 0 - 0 - 0 - 0	1.000 1.000 1.000 1.000	2 5 4 6 5	3.75 6.00 5.00 3.75 5.50	3.75 3.02 5.00 1.80 3.20	4 4 6	2.92 0.00 3.75 1.25 0.00	2.45 0.00 3.75 1.25	-	+ + + +	0.750 0.040 0.918 0.269	2 5 4 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	0	- c	1	.000 .000 .000
Habitat Mea	ns		0.00	0.00		0.00	0.0	00	0			4.82	3.36		1.60	1.90	ı	+			0.00	0.00		0.00	0.00	0	c		
Fisher's Stouffer'	s	Power Power				r-50% r-50%			value value	0.698 0.500	Power Power				r-50% r-50%		P-val P-val		0.053 0.020	Power Power				¥-50% ≚-50%			value value		

x At least one site pair p value < 0.100 in opposite direction of overall tests. y Direction of difference between bubbles means is different than direction of overall tests. Fig. 0.11 your sate pair.

Table P 5.327. Page 3, December 35, 1994

			му	elophy	ycus/	Scytosipl	họn (A)	(a)				Morpholog	ical G	roup	: Fine	Pilament	ous B	rowi	18		Fi	ne Fila	ument	ous Brow	ms (AE)	(b))	
ite Pair	Mvc	1 N	C	SB	N	O	SE	CV	p	Þ	N	c	SE	N	٥	SE	¢v	D	P	N	c	SE	N	0	SE	-	ev D	P
825C/1424 153C/453 601C/601 698C/598 .522C/1522		6 6 6 6	0.00 0.83 0.42 0.83 0.00	0.00 0.53 0.42 0.83 0.00	6 6	0.00 0.83 0.00 0.00 2.08	0.0 0.8 0.0 0.0 2.0	3 - 0 - 0 -	0	1.000 0.767 0.363 0.363 0.363	6 6 6 6	0.00 0.00 0.42 0.00 0.00	0.00 0.00 0.42 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 + 0 0	1.000 1.000 0.363 1.000	6 6 6 6	0.00 0.00 0.42 0.00 0.00	0.00 0.00 0.42 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		- 0	1.000 1.000 0.363 1.000 1.000
Mabitat Mea	ns		0.40	0.34	1	0.58	0.5	В	+			0.08	0.08		0.00	0.00		+			0.08	0.08		0.00	0.00)	- 1	
Fisher's Stouffer'	s	Power Power	0.030			er-50% er-50%		P-va P-va		0.478 y 0.284	Power Power				r-50% r-50%		P-val P-val		0.536 0.417	Power Power				er-50% er-50%				0.536 0.417
1825C/1424 153C/453 501C/601 598C/598 .522C/1522	2	6	1.00 6.25 0.00 0.00	1,00 5,76 0,00 0.00	6 6	0.42 0.00 0.00 0.00 4.38	0.4 0.0 0.0 0.0 2.5	0 - 0 - 0 -	0	0.719 0.258 1.000 1.000 0.292	5 6 6 5	26.50 0.00 5.00 0.42 4.50	11.69 0.00 5.00 0.42 4.50	6 6	25.52 0.00 2.92 0.42 20.62	15.77 0.00 2.92 0.42 11.24	-	+ 0 + 0 -	0.669 1.000 0.842 1.000 0.185	5 6 6 5	26.50 0.00 5.00 0.42 4.50	11.69 0.00 5.00 0.42 4.50	6 6 6	25.52 0.00 2.92 0.42 20.62	15.77 0.00 2.92 0.42 11.24	2	- + - 0 - + - 0 	0.669 1.000 0.842 1.000 0.185
Habitat Mea	ns		1.66	1.56	;	0.96	0.6	۵				7.28	4.32		9.88	6.06		+			7.28	4.32		9.88	6.06	5	-	
Fisher's Stouffer'	9	Power Power	0.001			r-50%	0.000 0.054	P-va P-va		0.511	Power Power	0.009			r-50% r-50%	0.159 0.000			0.736 у 0.568	Power Power	0.010			r-50% r-50%				0.736 y 0.568
1825C/1424 153C/453 501C/601 598C/598 1522C/1522	3 3	2 5 4 6 5	3.75 6.00 5.00 3.75 5.50	3.75 3.02 5.00 1.80 3.20	4 4 6	2.50 0.00 3.75 1.25 0.00	2.5 0.0 3.7 1.2	0 - 5 - 5 -		0.618 0.040 0.918 0.269	2 5 4 6 5	10.00 1.00 20.00 15.00 8.00	7.50 1.00 3.39 6.09 5.15	4 4 6	9.17 0.00 8.75 21.67 5.00	3.27 0.00 8.75 7.84	-	÷ ÷ ÷	0.793 0.374 0.119 0.712	2 5 4 6 5	10.00 1.00 20.00 15.00 8.00	7.50 1.00 3.39 6.09 5.15	4 6	9.17 0.00 8.75 21.67 5.00	3.27 0.00 8.75 7.84	5		0.793 0.374 0.119 0.712
labitat Mea	ns		4.82	3.36	5	1.52	1.9	Ô	+			10.80	4.64		8.94	4.98		+			10.80	4.64		8.94	4.98	3	+	
Fisher's Stouffer'	s	Power Power				er-50%		P~va P-va		0.046	Power Power	0.105 0.082			r-50% r-50%	0.706 0.395	P-val P-val		0.163 0.276	Power Power	0.098			er-50% er-50%	0.727			0.163 0.276

(a) Cenera not separated.

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

Table C-5,327, Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. May 1991. Overstory removed May 1990. (Continued.)

			Morpi	bologi	cal G	roup: Sa	ccate	Brown	8				Leather	sia/C	olpomenia	(A) (a)						Sora	nther	a ulvoide	3a (A)			
Site Pair	Mvd	N	С	8E	N	٥	SE	ÇV	D	P	N	С	SE	N	0	SE	ÇV	D	P	N	С	SE	N	0	SE	CV I	D	p
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0	10 - 10 -	o		6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		0 0 0 0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	- e	0 :	1.000 1.000 1.000 1.000 1.000
Habitat Mean	ns		0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power			Power Power	r-50% r-50%		P-va P-va		0.732 0.500	Power Power				r-50% r-50%		-val		0.732 0.500	Power Power			Power Power			-value).732).500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0 -	0 0	1.000 1.000 1.000 1.000	5 6 6 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	-	0 0 0 0	1.000 1.000 1.000 1.000 1.000	5 6 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- (0	1.000 1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		٥	
Fisher's Stouffer's		Power Power			Powe:	r-50% r-50%		P-va ⊇-va		0.732 0.500	Power Power				r-50% r-50%		e-valı -valı		0.732 0.500	Power Power			Power Power			-value		3.732 3.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	2 5 4 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 4 6	0.00 0.00 0.00 0.00 0.00	0.0 0.0 0.0	0 -	0	1.000 1.000 1.000 1.000	2 5 4 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -		1.000 1.000 1.000 1.000	2 5 4 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 6 - 6	0 :	1.000 1.000 1.000 1.000
Habitat Mea	ns		0.00	0,00		0.00	0.0	n	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		o	
Fisher's Stouffer'		Power Power				r-50% r-50%				0.698 0.500	Power Power				r-50% r-50%		e-val		0.698 0.500	Power Power			Power			-value).698).500

(a) Genera not separated.

x. At least one site pair p-value < 0.100 in opposite direction of overall basts. y Direction of difference between habital means is different than direction of overall tests. Z Dolyone site pair.

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

			Morph	ologi	cal G	roup: Cr	ustose	Brown	•				Ralfs.	ia/Pe	troderma	(P) (a)											
Site Pair	Mvc	4 N	c	SE	N	. 0	SE	CV	D	P	N	С	SB	N	0	SE	ÇV	D	P	N	С	SE	N	0	SE	CV D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	4-1-1	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0 - 0 - 0 -	0 0 0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000								
Habitat Mea	ıns		0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00		0									
Fisher's Stouffer'	5	Power				r-50% r-50%				0.732 0.500	Power Power				r-50% r-50%				0.732 0.500	Power Power				c-50% c-50%		-value -value	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2	5 6 6 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0	0 - 0 -	0	1.000 1.000 1.000 1.000	5 6 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0 0 0	1.000 1.000 1.000 1.000								
Habitat Mea	ກອ		0.00	0.00		0.00	0.0	O	o			0.00	0.00		0.00	0.00		0									
Fisher's Stouffer'	s	Power Power				r-50% r-50%				0.732 0.500	Power Power				r-50% r-50%				0.732 0.500	Power Power				-50% -50%		-value -value	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3	2 5 4 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 4 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0	0 - 0 - 0 -	0	1.000 1.000 1.000 1.000	2 5 4 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000								
Habitat Mea	ıns		0.00	0.00		0.00	0.0	0	o			0.00	0.00		0.00	0.00		O									
Fisher's Stouffer'	s	Power Power				r-50% r-50%				0.698 0.500	Power Power				r-50% r-50%				0.698 0.500	Power Power				r-50% r-50%		-value -value	

x At least one site pair p value < 0.100 μ 0 opposite direction of overall tests. Y Direction of difference between habitat means is different chem direction of overall tests. 2 Only one site pair.

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.

				_ ,	Fotal	Rhodoph	yta					Mor	pholog	ical	Group:	Bladed :	Reds						Bangi	а вр. (А	E)			
Site Pair	Mvd	N	с	SB	N	0	SE	cv	D	P	N	c	SE	N	0	SE	сv	D	P	N	С	SE	N	0	SE	CA D	,	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6 6 6	7.08 3.75 0.00 1.67 0.00	3.19 2.56 0.00 1.67 0.00	6 6	2.50 1.25 1.67 0.00 1.67	2.50 0.8 1.09 0.00	5 - 5 -	-	0.272 0.576 0.175 0.363 0.363	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	2.50 0.00 0.00 0.00 0.00	2.50 0.00 0.00 0.00 0.00	-	0	0.363 1.000 1.000 1.000	6 6 6	0.00 00.00 00.00 00.00	0.00 0.00 0.00 0.00	6 6	2.50 0.00 0.00 0.00 0.00	2.50 0.00 0.00 0.00 0.00		1 1	0.363 L.000 L.000 L.000
Habitat Mean	ıs		2.52	1.50		1.44	1.2	4	+			0.00	0.00		0.50	0.50		-			0.00	0.00		0.50	0.50	-		
Fisher's Stouffer's		Power Power	0.074			r-50% r-50%	0.248 0.411	P-va P-va		0.400 0.257	Power Power				er-50% er-50%		P-val P-val		0.536 0.450	Power Power			Power Power			P-value P-value		0.536 0.450
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	6	3.00 2.08 0.00 0.83 0.00	1.84 1.00 0.00 0.53 0.00	6 6	3.65 5.42 0.00 0.00 3.75	2.3 3.4 0.0 0.0 2.9	4 – 0 – 0 –	- 0 -	0.991 0.720 1.000 0.175 0.227	5 6 6 5	1.50 0.00 0.00 0.00 0.00	1.50 0.00 0.00 0.00 0.00	6 6	1.57 0.83 0.00 0.00 0.00	1.57 0.83 0.00 0.00	- - -	o	0.964 0.363 1.000 1.000	5 6 6 5	0.50 0.00 0.00 0.00 0.00	0.50 0.00 0.00 0.00	6 6	1.57 0.00 0.00 0.00 0.00	1.57 0.00 0.00 0.00	- 0	1 1	0.760 L.000 L.000 L.000
Habitat Mean	ıs		1.18	0.66		2.58	1.7	4	-			0.30	0.30		0.48	0.48		-			0.10	0.10		0.32	0.32	-		
Fisher's Stouffer's	5	Power Power	0.041 0.014			r-50% r-50%	0.422 0.570	P-va P-va		0.497 0.729	Power Power				er-50% er-50%		P-val P-val		0.529 0.313	Power Power			Power Power			P-value P-value		0.680 0.483
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	2 5 4 6 5	12.50 21.00 16.88 2.92 6.50	7.50 3.32 10.39 1.64 3.84	4 4 6	19.58 0.00 5.62 7.08 5.00	8.1: 0.0: 4.1: 5.1:	0 - 3 - 4 -	+	0.739 0.000 0.517 0.507	2 5 4 6 5	0.00 3.50 3.75 0.42 0.00	0.00 2.45 3.75 0.42 0.00	4 6	11.67 0.00 0.00 0.83 0.00	7.15 0.00 0.00 0.53	-	- + - 0	0.053 0.193 0.391 0.549	2 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 4 6	2.08 0.00 0.00 0.00 0.00	2.08 0.00 0.00 0.00	- 0 - 0	1 1	0.363 L.000 L.000 L.000
Habitat Mean	ıs		11.96	5.32		7.46	4.3	5	۲			1.54	1.34		2.50	1.92		-			0.00	0.00		0.42	0.52	-		
Fisher's Stouffer's		Power Power				r-50% r-50%				0.005 0.062	Power Power	0.117 0.004			er-50% er-50%		P-valı P-valı		0.232 0.563	Power Power			Power Power			P-value P-value		

x. At least one sice pair ρ -value < 0.100 in opposite direction of overall tests. y Direction of difference between habital means is different than direction of overall tests. 2 Only one site pair.

Table 0 5.328. Page 1. December 15, 1994

		_		Gigart	lpac	eae Group	(P) (a)					1	Palma	ria spp. ((A)						Ph	/codr)	s riggií	. (A)				
Site Pair 1	Mvd N	1	С	ge	N	0	SE		ÇV D	P	N	С	SE	N	0	88	CA	D	P	N	С	SE	N	0	SE	(D V	P	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 6 1 6 1 6 1 6	; ;	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0	00		1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	б б 6	0.00 0.00 0.00 0.00	0,00 0.00 0.00 0.00	- - - -	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00)))	- o	1.0	00 00 00
Habitat Mean	s		0.00	0.00		0.00	0.0	00	0			0.00	0,00		0.00	0.00		0			0.00	0.00		0.00	0.00)	0		
Fisher's Stouffer's		wer				er-50% er-50%				0.732 0.500	Power Power				er-50% er-50%		P-valu P-valu			Power Power				r-50 % r-50 %				0.7	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 5 2 6 2 6 2 6 2 5		0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	00	- 0 - 0 - 0	1.000 1.000 1.000	5 6 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6	0.00 0.83 0.00 0.00 0.00	0.00 0.83 0.00 0.00	- ·	- 0 0	1.000 0.363 1.000 1.000	5 6 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		- 0 - 0 - 0 - 0	1.0	00 00 00
Habitat Means	s		0.00	0.00		0.00	0.0	0.0	0			0.00	0.00		0.16	0.16		-			0.00	0.00		0.00	0.00)	0		
Fisher's Stouffer's		wer				er-50% er-50%				0.732 0.500	Power Power				er-50% er-50%		P-valu P-valu			Power Power				c-50% c-50%				0.7	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 2 3 5 3 4 3 6 3 5		0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 4 6	0.00 0.00 0.00 0.00	0.0	00	- 0 - 0 - 0	1.000 1.000 1.000	2 5 4 6 5	0.00 1.50 3.75 0.42 0.00	0.00 1.50 3.75 0.42 0.00	4 6	9.17 0.00 0.00 0.42 0.00	6.70 0.00 0.00 0.42	-		0.065 0.374 0.391 1.000	2 5 4 6 5	0.00 0.50 0.00 0.00 0.00	0.00 0.50 0.00 0.00	4 4 6	0.42 0.00 0.00 0.00 0.00	0.42 0.00 0.00 0.00))	 - + - 0 - 0	0.3 0.3 1.0 1.0	74 00 00
Habitat Means	9		0.00	0.00		0.00	0.0	00	0			1.14	1.14		1.92	1.78		+			0.10	0.10		0.08	0.10)	-		
Fisher's Stouffer's		wer				er-50% er-50%				0.698 0.500	Power Power	0.002 0.001			er-50% er-50%		P-valu P-valu		0.427 _{xy} 0.336	Power				c-50% c-50%				0.5	

(a) Chondrus, Iridaes. Mastocarpus and Rhodoglossum.

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

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

					Porph	yra sp. (1	A)						Rhod	lymen	ia pertus	a (A)						Tokidad	enar	n kurile	nsis (A)		
Site Pair	Mvd	N N	С	SE	N	0	SE	CV	Ď	P	N	С	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	CV	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522		6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0 0	1.000 1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 00.00 0.00 0.00	-	0 0	1.000 1.000 1.000 1.000 1.000
Habitat Mea Fisher's Stouffer'		Power Power	0.00	0.00	Powe	0.00 r-50% r-50%		P-val P-val		0.732 0.500	Power Power	0.00	0.00		0.00 er-50% er-50%		P-val P-val		0.732 0.500	Power Power	0.00			0.00 r-50% r-50%		⊇- v ē	lue	0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	6 6 6	1.00 0.00 0.00 0.00	1.00 0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	0 0	0.374 1.000 1.000 1.000	5 6 6 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000 1.000	5 6 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		0	1.000 1.000 1.000 1.000 1.000
Habitat Mea		Power	0.20	0.20	Powe	0.00 r-50%				0.542	Power	0.00	0.00		0.00 er-50% er-50%		P-val		0.732	Power Power	0.00		?owe	0.00 r-50% r-50%		P-va		0.732 0.500
Stouffer' 4825C/1424 453C/453 601C/601 598C/598 1522C/1522	\$ 3 3 3 3	4	0.00 1.00 0.00 0.00 0.00	0.00 1.00 0.00 0.00	6 0 4 0 4 0 6	0.00 0.00 0.00 0.00 0.42 0.00	0.00 0.00 0.00 0.42	P-val - - - -	0	0.451 1.000 0.374 1.000 0.363	Power 2 5 4 6 5	0.00 0.50 0.00 0.00 0.00	0.00 0.50 0.00 0.00	6 4 4	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 + 0 0	1.000 0.374 1.000 1.000	2 5 4 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 6 1	0.00 0.00 0.00 0.00	0.00 0.00 0.00) -	0 0	1.000 1.000 1.000 1.000
Habitat Mea		Power	0.20	0.20	Powe	0.08 r-50% ~-50%				0.581 y 0.405	Power Power	0.10	0.10		0.00 er-50% er-50%		P-va		0.483 0.315	Power Power	0.00		Fowe	0.00 r-50% r-50%		P-v		0.698 0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Dijection of difference between tabitat means is different than direction of overall tests.
z Only one eita pair. Morphological Group:

Coarse Filamentous Reds

- - 0.415

0.306 P-value 0.137

0.421 P-value 0.288

Site Pair	Mvd	N	c	SE	N	0	SE	CV	D P	N	C	SE	N	0	SE	CV I	D	P	N	С	ŞE	Ŋ	0	SE	ÇV	D	P
4825C/1424 453C/453 601C/601 598C/598	1 1 1	6	4.58 3.33 0.00 1.67	2.92 2.47 0.00 1.67 0.00	6 6	0.00 0.83 1.67 0.00 1.67	0.00 0.53 1.05 0.00 1.67	- -	+ 0.52 - 0.17 + 0.36	3 6 5 6 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	- 6	0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000
1522C/1522 Habitat Mea	_	6	0.00 1.92	1.42	0	0.84	0.66			-	0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'		Power Power	0.047		Power	c-50% c-50%			e 0.31 e 0.23					r-50% r-50%		-value		0.732 0.500	Power			Power					0.732
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2	5 6 6 6	1.50 2.08 0.00 0.83 0.00	1.50 1.00 0.00 0.53 0.00	6 6 6	2.08 4.58 0.00 0.00 3.75	2.08 2.92 0.00 0.00 2.98	; – ; –		4 6 0 6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 6	0	1.000 1.000 1.000 1.000 1.000	5 6 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000
Habitat Mea Fisher's Stouffer'	ans	Power	0.88 0.022 0.009			2.10 c-50% r-50%		P-val:	- ie 0.50 ie 0.74		0.00	0.00	Powe	0.00 r-50% r-50%		-valu		0.732 0.500	Power Power	0.00	0.00	Power Power			P-va		0.732 0.500
4825C/1424 453C/453 601C/601	3 3 3	2 5 4	0.00 10.50 13.13	0.00 3.57 10.07	4	2.08 0.00 4.37	1.64 0.00 4.37) - ! -		4 5 2 4	0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- 1	0	1.000 1.000 1.000	2 5 4 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.42 0.00 0.00 4.17	0.42 0.00 0.00 4.17	-	. 0	0.363 1.000 1.000 0.363

0.00

0.00

0.00

С

0.00

0.00

0.00

Power

N

SE

Articulate Coralline Algae (A)

CV D

P

- 0 1.000

- o

--- P-value 0.698

--- P-value 0.500

0

0.00

0.00

0.00

0.00

0.00

Power-50%

Power-50%

N

2.00

0.40

5

Power

2.00

0.40

1,25

6.00

6.18

Power

0.073

0.052

0.85

4.00

3.72

5.83

5.00

3.46

Power-50%

Power-50%

4.86

2.73

598C/598

1522C/1522

Habitat Means

Fisher's

--- P-value 0.295

--- P-value 0.198

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CV D

P

Cryptosiphonia woodii (A)

0

0.00

0.92

f0c-rewoq

Power-50%

1.15

--

SE

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

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

					-1-46-	muricat	• (P)						Gloi	opelt	is furca	ta (A)					Ne	orhodo	mela/	Rhodomel	a (P) (a)		
				se sudo	N	O	SE	cv	D		N	c	SE	N	0	ge	ÇV	D	P	N	С	SE	N	0	SE	cv	D	P
Site Pair	Mvđ	N	C	88	м						-		0.00	-	0.00	0.00	_		0.175	6	0.00	0.00	б	0.00	0.00			1.000
825C/1424 53C/453 601C/601 598C/598	1 1 1	6 6 6	0.00 0.00 0.00 0.00	0.00	6 6	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 6 6	4.58 3.33 0.00 1.67	2.92 2.47 0.00 1.67	6 6	0.00 0.83 1.67 0.00 0.00	0.53 1.05 0.00	-	+ - +	0.523 0.175 0.363 1.000	6 6	0.00		6	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
.522C/1522	ī	6	0.00	0.00	6	0.00	0.00	-	_	1.000	6	0.00	0.00	6	0.50	0.32		+	21000	-	0.00	0.00		0.00	0.00)	0	
labitat Mea	ns		0.00	0.00		0.00	0.00		0				1.42	_			P-va	1	0.251	Power			Powe	c-50%		P-va	Lue	0.732
Fisher's Stouffer'		Power			Power Power			P-val		0.732	Power Power	0.072 0.022		Power			P-va P-va		0.179	Power				r-50 %		P-va		0.500
4825C/1424 453C/453 501C/601 598C/598	2 2 2 2	5 6 6	0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-		1.000 1.000 1.000 1.000	56665	0.00 0.42 0.00 0.83 0.00	0.00 0.42 0.00 0.53 0.00	6 6 6 4	0.00 0.00 0.00 0.00 0.63	0.00 0.00 0.00 0.00) -) -	-	1.000 0.363 1.000 0.175 0.391	5 6 6 6 5	1.50 0.83 0.00 0.00	1.50 0.83 0.00 0.00 0.00	6 6	0.00 4.58 0.00 0.00	0.00 2.9 2 0.00 0.00 0.00	2 - 3 - 3 -	0	0.374 0.339 1.000 1.000
1522C/1522	2	5	0.00	0.00	4	0.00	0.00		0	1.000	_	0.24	0.18		0.12	0.12	2	+			0,46	0.46		0.92	0.58	3	-	
Rabitat Mea Fisher's		Power	0.00	0.00	Power	-50%		P-va P-va		0.732	Power Power	0.016			r-50% r-50%	0.017	P-va P-va		0.320 0.087	Power Power	0.007			r-50% r-50%		P-va P-va	lue	0.617
Stouffer' 4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3		0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	2 5 4 6 5	0.00 1.00 0.00 0.00	0.00 1.00 0.00 0.00	4 6 1	0.42 0.00 0.00 0.00	0.42 0.00 0.00) -) - 	0 0	0.363 0.374 1.000 1.000	2 5 4 6 5	0.00 1.00 0.00 0.00 0.00	0.00 1.00 0.00 0.00 0.00	4 6 1	0.00 0.00 4.37 0.83 0.00	0.00 0.00 4.37 0.83	0 - 7 - 3 -	0 -	1.000 0.374 0.391 0.363
Habitat Mea	ans		0.00	0.00		0.00	0.00		0			0.20	0.20		0.08	0.1)	-				0.20					1	0.388
Fisher's		Power			Power					0.698 0.500	Power Power				r-50% r-50%		P-va P-va		0.581 y 0.638	Power Power				r-50% r-50%				0.329

(a) Genera not separated. x At least one site pair p-value < 0.100 in opposite direction of overall tests. y Direction of difference between habitat means is different than direction of overall tests. z Only one site pair. Table C 5.32B. Page 5. December 15, 1994

				Ođon	rhalia	flocco	sa (P)						Ptilot	a/Nec	ptilota	(P) (b)					Mor	hologi	cal d	roup: :	accate 1	neu <i>B</i>	
ite Pair	Mvd	N	С	SE	N	0	SR	CV	D	P	N	c	SE	N	0	SE.	ÇV	D	P	N	С	SE	N	0	SE	ÇV I	P
825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	-	1.000	6	0.00	0.00	6 6	0.00	0.00	_		1.000	6	0.00	0.00	6	0.00	0.00	- 0	1.00
3C/453 01C/601 98C/598	1 1	6 6	0.00 0.00 0.00	0.00		0.00	0.00	-	0	1.000 1.000 1.000 0.363	6	0.00	0.00	6	0.00	0.00	-	0	1.000 1.000 1.000	6 6	0.00 0.00 0.00	0.00	6	0.00	0.00 0.00 0.00	- c	1.00
522C/1522	1	6	0.00	0.00	6	1.67	1.67	-	-	0.363	C	0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		•
abitat Mea Fisher's		Power		0.00	Power Power	-50%				0.536	Power Power			Powe:			P-va: P-va:		0.732 0.500	Power Power			Power			P-value P-value	0.50
Stouffer' 825C/1424 53C/453 01C/601 98C/598	2 2 2 2	5 6 6 6	0.00 0.83 0.00 0.00	0.00 0.83 0.00 0.00	6 6 6	2.08 0.00 0.00 0.00	2.08 0.00 0.00 0.00 3.13	- - -	- + 0	0.363 0.363 1.000 1.000 0.391	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	0	1.000 1.000 1.000 1.000	5 6 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	1.00 1.00 1.00 1.00 1.00
522C/1522 abitat Mea	2	5	0.00	0.00		3.13 1.04	1.04		-	Ų.391	3	0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		
Fisher's		Power			Power					0.454	Power Power				r-50% r-50%		P-va P-va		0.732 0.500	Power Power				c-50% c-50%		P-valu P-valu	0.50
Stouffer' 825C/1424 53C/453 01C/601 98C/598 522C/1522	's 3 3 3	2 5 4 6 5	0.00 8.50 13.13 1.25 4.00	0.00 4.00 10.07 0.85 4.00	6 4 4 6	1.25 0.00 0.00 0.83 5.00	1.25 0.00 0.00 0.53	- - -	- + +	0.363 0.080 0.224 0.839	2 5 4 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 4 6 1	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000 1.000	2 5 4 6 5	7.50 3.50 0.00 0.00 0.50	5.00 2.18 0.00 0.00 0.50	4 6 1	0.83 0.00 1.25 0.42 0.00	0.53 0.00 1.25 0.42	-	- 0.03 - 0.17 - 0.39 - 0.36
abitat Me	ans		5,38	3.80		1.42	0.45	5	+			0.00	0.00		0.00	0.00			0.600		2,30			r-50%		P-valu	
Fisher's		Power	0.254		Power			P-va		0.113 0.102	Power Power				r-50% r-50%		P-va P-va		0.698 0.500	Power Power	0.047			r-50%		P-valu	

⁽b) Cenera not separated.

x At least one site pair p-value < 0.100 in opposite direction of 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. Algal Percent Cover, Rhodophyta, Prince William Sound. Sheltered Rocky, May 1991. Overstory removed May 1990. (Continued.)

				Halosa	ccion	glandii	forme (A)					Hal	OSAC	cion app	. (A)		_			Morphol	ogical	Group	: Fine	Filament	tous	Reds	1
Site Pair	Mv	d N	С	SE	N	0	92	CV	D	P	N	c	SE	Ŋ	0	SE	CV	D	P	N	С	SE	Ŋ	0	SE	CA	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	} - } -	0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0 0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mea	ıns		0.00	0.00		0.00	0.00)	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	s	Power Power				r-50% r-50%		P-valı P-valı		0.732 0.500	Power Power				er-50%		P-valu P-valu		0.732 0.500	Power Power			Power Power					0.732 0.500
4825C/1424 433C/453 601C/601 598C/598 1522C/1522	2 2 2	5 6 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) –) –	0	1.000 1.000 1.000 1.000 1.000	5 6 6 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000	5 6 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 4.000
Habitat Mea	ir.s		0.00	0.00		0.00	0.00)	0			0.00	0.00		0.00	0.00		٥			0.00	0.00		0.00	0.00	•	С	
Fisher's Stouffer'	s	Power Power	- 		Powe:	r-50% r-50%		P-val: P-val:		0.732 0.500	Power Power				er-50% er-50%		P-valu P-valu		0.732 0.500	<i>Power</i> Power			Power Power			P-val P-val		D.732 D.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3	2 5 4 6 5	0.00 3.50 0.00 0.00 0.50	0.00 2.18 0.00 0.00 0.50	4 4 6	0.83 0.00 1.25 0.42 0.00	0.53 0.00 1.25 0.42	- - -		0.175 0.179 0.391 0.363	2 5 4 6 5	7,50 0.00 0.00 0.00 0.00	5.00 0.00 0.00 0.00 0.00	6 4 6 1	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	0.237 1.000 1.000 1.000	2 5 4 6 5	5.00 3.00 0.00 1.25 0.00	2.50 1.84 0.00 1.25 0.00	4 4 6	5.00 0.00 0.00 0.00	3.71 0.00 0.00 0.00	-	0	0.595 0.178 1.000 0.363
Habitat Mea	ins		0.80	0.54		0.50	0.5	;	-			1.50	1.00		0.00	0.00		+			1.86	1.12		1.00	0.92		+	
Fisher's Stouffer'	s	Power Power	0.097 0.032			r-50% r-50%		P-valı P-valı		0.163 y 0.349	Power Power	0.010			er-50% er-50%		P-valu P-valu		0.393	Power Power	0.089		Power Power					0.242 0.084

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

			Poly	sipho	nia/P	terosiph	A) sino) (a)				Morp	hologi	cal	Group: C	rustose	Reds					Crusto	se Co	ralline A	lgae (P)		
Site Pair	MV	1 N	c	SE	N	0	SE	cv	D	P	N	С	SE	N	٥	SE	СV	D	P	N	С	SE	Ŋ	0	ge	¢v	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1	6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0 - 0 - 0 -	00000	1.000 1.000 1.000 1.000	6 6 6 6	2,50 0.42 0.00 0.00 0.00	2.50 0.42 0.00 0.00 0.00	6	0.00 0.42 0.00 0.00 0.00	0.00 0.42 0.00 0.00	-	0 0	0.363 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	0	1.000 1.000 1.000 1.000 1.000
Habitat Mean	ns		0.00	0.00		0.00	0.0	0	0			0.58	0.58		0.08	0.08		+			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	s	Power Power				r-50% r-50%	- 	P-val:		0.732 0.500	Power Power				er-50% er-50%		P-valu P-valu		0.536 0.450	Power Power				r-50% r-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2	5 6 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0 - 0 -	00000	1.000 1.000 1.000 1.000	5 6 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0	1.000 1.000 1.000 1.000	5 6 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mean	r.s		0.00	0.00		0.00	0.0	0	O			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		O	
Fisher's Stouffer's	s	Power Power				r-50% r-50%		P-valı P-valı		0.732 0.500	Power Power				er-50% er-50%		P-valu P-valu		0.732 0.500	Power Power				r-50 % r-50 %				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3	2 5 4 6 5	5.00 3.00 0.00 1.25 0.00	2.50 1.84 0.00 1.25 0.00	4 4 6	5.00 0.00 0.00 0.00 0.00	3.7 0.0 0.0 0.0	0 - 0 -	+	0.595 0.178 1.000 0.363	2 5 4 6 5	0.00 0.50 0.00 0.00	0.00 0.50 0.00 0.00 0.00		0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	† O	1.000 0.374 1.000 1.000	2 5 4 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mean	ns		1.86	1.12		1.00	0.9	2	•			0.10	0.10		0.00	0.00		-			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	s	Power Power	0.081			r-50% r-50%	0.600	P-val: P-val:		0.242	Power Power				er-50% er-50%		P-valu P-valu		0.483 0.315	Power Power				r-50% r-50%				0.698 0.500

[6] Genera not separated.

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

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

			_	Bil	ldenb	orandia sp.	(P)							Petr	cocelis (P	'}							
Site Pair	Mvd	i N	c	SE	N	0	SE	(v D	P	N	¢	SE	N	0	SE	ÇV	D	P		 		13.1
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.	00 00 00	- 0 - 0	1.000	6666	2.50 0.42 0.00 0.00 0.00	2.50 0.42 0.00 0.00 0.00	6 6	0.00 0.42 0.00 0.00	0.00 0.42 0.00 0.00	-	0 0 0	0.363 1.000 1.000 1.000				
Habitat Mea	ıns		0.00	0.00		0.00	0.	00	Q			0.58	0.58		0.08	0.08		1					
Fisher's Stouffer'	5	Power Power				er-50% er-50%				0.732 0.500	Power Power				er-50% er-50%		P-valu P-valu			Power Power	 Power-5(P-value P-value
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2	5 6 6 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.0	00 00 00	- 0 - 0	1.000	5 6 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000				
Habitat Mea	เกร		0.00	0.00		0.00	0.0	00	0			0.00	0.00		0.00	0.00		0					
Fisher's Stouffer'	ទ	Power Power				er-50% er-50%				0.732	Power Power				2x-50% 2x-50%		P-valu P-valu			Power Power	 Power-5(Power-5(P-value P-value
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3	2 5 4 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4	0.00 0.00 0.00 0.00	0.6	00 00	~ D	1.000 1.000 1.000 1.000	2 5 4 6 5	0.00 0.50 0.00 0.00 0.00	0.00 0.50 0.00 0.00	4 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	+	1.000 0.374 1.000 				
Habitat Mea	ins		0.00	0.00		0.00	0.0	0:0	0			0.10	0.10		0.00	0.00							
Fisher's Stouffer'	s	Power Power				er-50% er-50%				0.698 0.500	Power Power				±-50% ±-50%		P-valu P-valu			Power Power	 Power-50 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-5.329. 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; P = probability value; dashes = insufficient data.

					Bala	nomorph	a							Lo	ottiidae								м	ytilus				
Site Pair	Mvđ	N	c	SE	N	0	SE	CV	D	P	N	С	9E	N	0	SE	CV I	D	P	N	С	SE	N	٥	82	CV	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6 6 6	0.00 5.00 11.67 1.25 15.42	0.00 3.16 5.61 0.85 10.54	6 6 6	10.83 2.92 3.75 4.17 19.17	8.98 1.50 1.55 2.01 5.94	- - - -	+	0.224 0.836 0.222 0.217 0.488	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- (0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	6 6 6	0.00 0.42 0.00 0.00 0.83	0.00 0.42 0.00 0.00 0.83	-	0	1.000 0.363 1.000 1.000 0.363
Habitat Mea	ns		6.68	4.04		8.18	4.00		-			0.00	0.00		0.00	0,00	1	0			0.00	0.00		0.24	0.24		-	0.350
Fisher's Stouffer'		Power Power	0.191		Powe:			P-val P-val		0.226	Power Power				r-50% r-50%		-valu		0.732 0.500	Power Power				r-50% r-50%		P-va P-va		0.359 0.251
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	6 6	4.00 2.50 6.67 15.83 9.50	2.57 1.58 3.86 6.31 3.39	6 6 6	13.33 0.00 9.58 16.25 7.50	8.65 0.00 1.50 6.54 3.68	- - - -	- + - +	0.584 0.175 0.180 0.982 0.741	5 6 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.42 0.00	0.00 0.00 0.00 0.42 0.00	-	0	1.000 1.000 1.000 0.363 1.000	5 6 6 5	0.00 0.42 0.00 0.00 0.00	0.00 0.42 0.00 0.00	6 6	0.00 0.00 1.25 0.00 0.00	0.00 0.00 0.85 0.00 0.00	-	† - 0	1.000 0.363 0.183 1.000 1.000
Habitat Mea			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 Stouffer'		Power	0.093		Power	c-50%		P-val P-val		0.457 0.650	Power Power				er-50% er-50%		-valu -valu		0.536 0.240	Power Power	0.00			r-50% r-50%				0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	2 5 4 6	0.00 0.00 1.88 3.33 4.50	0.00 0.00 1.88 1.79 1.46	4 4 6	0.42 0.00 14.37 1.67 0.00	0.42 0.00 12.76 0.83		- 0 - +	0.363 1.000 0.387 0.637	2 5 4 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000	2 5 4 6 5	0.00 2.00 0.00 0.00 0.50	0.00 2.00 0.00 0.00	4 4 6 6 1	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) -) -	0 0	1.000 0.374 1.000 1.000
Habitat Mea	ans		1.94	1.04		3.30	3.50		-			0.00	0.00		0.00	0.00		0			0.50	0.50		0.00	0.00			0.400
Fisher's Stouffer'	' S	Power Power	0.022 0.039			r-50% r-50%		P-vai P-vai		0.355 0.516	Power Power				er-50% er-50%		P-valu P-valu		0.698 0.500	Power Power				r-50% r-50%				0.483

x. At least one site pair p-value < 0.100 in opposite direction of 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. Rego 1. December 15, 1994

z Omly one site	pulli			1	Nucel	la lamello	82							Lit	torinidae								Mo	ollusca				
Site Pair	Mvd	N	c	SE	N	0	SE	CV	D	P	N	с	ge	N	0	SE	CV	D	P	N	С	SE	N	0	8E	CA	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1 1 1 1	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00	- -	0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.42 0.00 0.00	0.00 0.42 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	+ O	1.000 0.363 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0 0 0	1.000 1.000 1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00		0.00	0.0		0			0.08	0.08		0.00	0.00	P-va		0.536	Power	0.00	0.00		0.00 r-50%	0.00		e e	0.732
Fisher's Stouffer'		Power Power				er-50% er-50%		P-val P-val		0.732 0.500	Power Power				r-50% r-50%		P-va			Power				r-50%		P-valu	ie.	0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 1 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0 - 0 -	0	1.000 1.000 1.000 1.000 1.000	5 6 6 5	0.00 0.00 0.00 0.42 0.00	0.00 0.00 0.00 0.42 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 0.363 1.000	5 6 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	6 6 6 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00		0.00	0.0		o			0.08	0.08		0.00	0.00	P-va	1	0.536	Power	0.00			r-50%			-	0.732
Fisher's Stouffer'		Power Power				er-50% er-50%				0.732 0.500	Power Power				r-50% r-50%		P-va P-va		0.240	Power			Powe	r-50%		P-valu	1e	0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3	2 5 4 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) 4	0.00 0.00 0.00 0.00	0.0	0 - 0 - 0 -	0	1.000 1.000 1.000 1.000	2 5 4 6 5	0.00 0.00 0.63 0.00	0.00 0.63 0.00 0.00	4 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0 +	1.000	2 5 4 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000
Habitat Mea	ins		0.00	0.00)	0.00	0.0	0	0			0.12	0.12		0.00	0.00		+			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	s	Power				er-50% er-50%		P-va P-va		0.698 0.500	Power Power				er-50% er-50%		P-va P-va		0.492	Power Power				r-50% r-50%		P-valı P-valı		0.698

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

Table C-5.330. Algal Percent Cover. Substrates. Prince William Sound. Shaltered Rocky. May 1991. Overstory removed May 1990.

Results of statistical differences between means of control and ciled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = ciled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; - = control > ciled; - = control < ciled; 0 = control > ciled; P = probability value; dashes = insufficient data.

		Rock			Oiled Rock		Sand	
Site Pair Myd N	C SE	n o	SE CV D P	N C SE	N O SE CV	D P N C	se n o	SE CV D P
4825C/1424 1 6 453C/453 1 6 601C/601 1 6 598C/598 1 6 1522C/1522 1 6	79.58 6 78.75 11 88.33 7	.53 6 76.6 .69 6 82.9 .61 6 94.1 .68 6 95.8 .34 6 58.3	2 4.93 0.863 7 2.30 0.209 3 2.01 0.594	6 0.00 0. 6 0.00 0. 6 0.00 0.	00 6 0.00 0.00 - 00 6 0.00 0.00 - 00 6 0.00 0.00 - 00 6 0.00 0.00 - 00 6 0.00 0.00 -	o 1.000 6 0.00 o 1.000 6 0.00 o 1.000 6 0.00	0.00 6 0.00 0.00 6 0.00 0.00 6 0.00	0.00 - 0 1.000 0.00 - 0 1.000 0.00 - 0 1.000 0.00 - 0 1.000 0.00 - 0 1.000
Habitat Means	80.94 8	96 81.5	9 6.48 -	0.00 0.	00.00 0.00	0.00	0.00 0.00	0.00 0
Fisher's Pov Stouffer's Pov		Power-50% Power-50%	1.000 P-value 0.376 1.000 P-value 0.296	Power	Power-50% P-va Power-50% P-va		Power-50%	P-value 0.732 P-value 0.500
4825C/1424 2 5 453C/453 2 6 601C/601 2 6 598C/598 2 6 1522C/1522 2 5	82.92 4 76.25 7	17 6 40.8 64 6 73.3 81 6 77.0 98 6 64.1 31 4 23.7	3 15.16 0.416 8 8.02 - 0.510 7 11.29 - 0.582	6 0.00 0. 6 0.00 0. 6 0.00 0.		0 1,000 6 0.00 0 1.000 6 0.00 0 1.000 6 0.00	0.00 6 0.00 0.00 6 0.00 0.00 6 0.00	0.00 - 0 1.000 0.00 - 0 1.000 0.00 - 0 1.000 0.00 - 0 1.000 0.00 - 0 1.000
Habitat Means	64.40 10	98 55.8	1 10.98 -	0.00 0.	00.00 0.00	0 0.00	0.00 0.00	0.00 0
Fisher's Pov Stouffer's Pov		Power-50% Power-50%	0.948 P-value 0.111 0.831 P-value 0.265	Power	Power-50% P-va Power-50% P-va		Power-50% Power-50%	P-value 0.732
4825C/1424 3 2 453C/453 3 5 601C/601 3 4 598C/598 3 6 1522C/1522 3 5	27.00 13 23.75 10 40.00 16	48 4 4.3	0.00 0.005 2.95 - + 0.088 13.58 - + 0.479	5 0.00 0. 4 0.00 0. 6 0.00 0.	00 6 0.00 0.00 - 00 4 0.00 0.00 - 00 4 0.00 0.00 - 00 6 0.00 0.00 - 00 1 0.00	0 1,000 5 0.00 0 1.000 4 0.00	0.00 4 0.00 0.00 4 0.00 7.48 6 0.00	0.00 - 0 1.000 0.00 - 0 1.000 0.00 - 0 1.000 0.00 - 0 1.000 - 0 1.92
Habitat Means	26.32 12	88 28.6	1 5.28 +	0.00	00 0.00 0.00	0 2.08	1.50 0.00	0.00 1
Fisher's Pov Stouffer's Pov		Power-50% Power-50%	0.608 P-value 0.185x 0.448 P-value 0.695	Power	Power-50% P-va Power-50% P-va		001 Power-50% 000 Power-50%	0.001 P-value 0.356 0.000 P-value 0.150

x At least one site pair p-vsime < 0.100 in opposite direction of overall tests.</p>
y Direction of difference between habital means is different than direction of overall tests.
2 DELy one sale pair.

Table 2 3.330, Page 1, December 15, 1994

					Shell	. Fragment									Water				_		_	Zo	stera	/Phyllosp	adix			
Site Pair	Mvd	N	c	SE	N	0	SE	CV	Ω.	P	N	С	SE	N	0	SE	CV I	D	P	N	С	SE	N	o	SB	CV	7 D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1 1 1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0 - 0 -	0		6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.42 0.00 0.00	0.00 0.00 0.42 0.00 0.00	-	- 0	1.000 1.000 0.363 1.000 1.000
Habitat Mean	28		0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00	(0			0.00	0.00		0.08	0.08		-	
Fisher's Stouffer's		Power Power				r-50% r-50%				0.732 0.500	Power Power				er-50% er-50%		P-value P-value		0.732 0.500	Power Power				r-50% r-50%				0.536 0.417
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	5 6 6 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0 -	0		5 6 6 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c	0	1.000 1.000 1.000 1.000 1.000	5 6 6 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0,00 0,00 0,00 0,00	-	0	1.000 1.000 1.000
Habitat Mean	18		0.00	0.00		0.00	0.0)	0			0.00	0.00		0.00	0.00	c	0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power				r-50% r-50%				0.732 0.500	Power Power				er-50% er-50%		P-value P-value		0.732 0.500	Power Power				r-50% r-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3	2 5 4 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00) ~) ~	0	1.000 1.000 1.000 1.000	2 5 4 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c	0	1.000 1.000 1.000 1.000	2 5 4 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mean	18		0.00	0.00		0.00	0.0)	0			0.00	0.00		0.00	0.00	•	0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power				r-50% r-50%				0.698 0.500	Power Power				er-50% er-50%		P-value P-value		0.698 0.500	Power Power				r-50% r-50%				0.698 0.500

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

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

					Sand	d and Mu	ď	_					Tota	1 Substr	ate										
Site Pair	Mve	1 N	С	SE	N	0	SE	CV D	Þ	N	С	SE	N	o	SE	ÇV D	P	N	С	SE	Ŋ	0	SE	CV D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522		5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- o		6 6 6 6	74.17 79.58 78.75 88.33 83.75	8.53 6.69 11.61 7.68 10.34	6 6	76.67 82.92 94.17 95.83 58.33	11.36 4.93 2.30 2.01 11.79		0.863 0.209 0.594								
Habitat Mean	rs		0.00	0.00		0.00	0.00	0			80.94	8.96		81.58	6.48	-									
Fisher's Stouffer's	s	Power Power				r-50% r-50%		P-value P-value		Power Power				er-50% er-50%		P-value P-value	0.376 0.296	Power Power			Power Power			P-value P-value	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2	5 6 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0	1.000 1.000 1.000 1.000 1.000	5 6 6 6	47.00 53.75 82.92 76.25 62.00	13.17 16.64 4.81 7.98 12.31	6 6	40.83 73.33 77.08 64.17 23.75	16.07 15.16 8.02 11.29 4.27	- · - ·	0.416								
Habitat Mear	ns		0.00	0.00		0.00	0.00	o			64.40	10.98		55.84	10.98	+									
Fisher's Stouffer's	5	Power Power				r-50% r-50%		P-value P-value	0.732 0.500	Power Power				er-50% er-50%	0.965 I	P-value P-value		Power Power			Power Power				
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3	2 5 4 6 5	0.00 0.00 0.00 10.42 0.00	0.00 0.00 0.00 7.48 0.00	4 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- o - o - +	1.000	2 5 4 6 5	13.75 27.00 23.75 50.42 27.00	13.75 13.56 10.48 14.74 10.23	4 4 6	7.08 100.00 4.37 26.67 5.00	4.54 0.00 2.95 13.58	- I	0.669 0.005 0.088 0.228								
Habitat Mear	ns		2.08	1.50		0.00	0.00	+			28.40	12.56		28,64	5.28	-									
Fisher's Stouffer's	s	Power Power	0.002 0.000			c=50% c=50%		P-value P-value		Power Power	0.328			er-50% er-50%	0.704 I 0.514 I		0.119 _{×γ} 0.546	Power Power			Power			P-value P-value	

x At least one site pair p-value < 0.100 th opposite direction of overall tests. y Direction of difference between habitat means is different than direction of overall tests. 2 Only one site pair.

Table C-5.331. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sneltered Mocky, dune 1991. Overscory Temmoved Stay 1990.

Results of statistical differences between means of control and siled site pairs. MVD = meter vertical drop; N sample size; C - control mean; O = siled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > siled; - control = siled; P = probability value; dashes insufficient data.

				Algal	Diver	sity In	dex (a)						λlga	l Ta	wa Richne	ass (b)							Tot	al Algae	•			
Site Pair	Mvd	N	С	SE	N	٥	SE	ÇV	D	P	N	c	SE	N	۰	SE	СV	D	P	N	С	SE	N	٥	SE	cv	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6 6 6	0.00 0.15 0.00 0.03 0.00	0.00 0.06 0.00 0.03 0.00	6 6	0.00 0.05 0.00 0.00 0.11	0.00 0.04 0.00 0.00 0.00	-	0 +	1.000 0.193 1.000 0.363 0.269	6 6 6 6	0.67 2.17 0.00 0.33 0.50	0.21 0.48 0.00 0.33 0.22	6	0.00 1.00 0.17 0.33 1.33	0.00 0.37 0.17 0.21 0.61	- -	+ - 0	0.025 0.081 0.363 1.000 0.231	6 6 6 6	14.17 39.17 0.00 2.92 23.33	7.46 14.57 0.00 2.92 11.67	6 6	0.00 10.42 0.42 0.83 21.25	0.00 6.24 0.42 0.53 11.85	-	- +	0.064 0.090 0.363 0.815 0.978
Habitat Mea	ns		0.04	0.02		0.03	0.02		H			0.73	0.25		0.57	0.27		+			15.92	7.34		6.58	3.80		+	
Fisher's Stouffer'	s	Power Power	0.016 0.005		Power-			P-val P-val		0.346 0.122	Power Power	0.091			er-50% er-50%		P-valı P-valı		0.070 0.218	Power Power	0.207			r-50% r-50%		P-valı P-valı		
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	6 6 6 6	0.16 0.18 0.04 0.05 0.16	0.08 0.09 0.04 0.05 0.10	6 6 6	0.17 0.12 0.16 0.11 0.35	0.07 0.05 0.08 0.07 0.11	-	:	0.939 0.549 0.184 0.507 0.229	6 6 6 6	1.50 2.00 1.00 0.83 1.83	0.62 0.68 0.45 0.31 0.70	6 6	1.83 1.33 1.17 1.17 3.00	0.31 0.33 0.54 0.48 0.84	-	- + - -	0.640 0.401 0.817 0.570 0.310	6 6 6 6	38.33 39.17 12.92 5.42 35.00	18.50 15.74 5.45 2.18 15.96	6 6 6 5	36.25 24.58 13.75 19.17 69.00	13.83 13.68 7.35 11.63 16.97	-	<u>.</u> 	0.853 0.548 0.888 0.431 0.152
Habitat Mea	ns		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 Stouffer'	s	Power Power	0.319 0.326		Power			P-val P-val		0.173 0.222	Power Power	0.269 0.209			er-50% cr-50%		P-val: P-val:		0.377 0.373	Power Power	0.147 0.143			r-50% r-50%		P-val: P-val:		
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	5	0.47 0.46 0.17 0.46 0.30	0.04 0.08 0.12 0.06 0.10	5 5 6	0.21 0.12 0.39 0.32 0.38	0.14 0.07 0.16 0.12 0.06	-		0.160 0.014 0.335 0.344 0.561	4 5 4 5 6	3.75 4.40 2.00 3.80 2.67	0.25 0.98 0.71 0.86 0.67	5 5	2.20 0.80 3.60 3.50 3.75	1.07 0.49 1.17 1.12 0.48	-	+ + - + -	0.248 0.011 0.310 0.842 0.271	4 5 4 5 6	69.38 86.50 21.25 59.50 42.50	14.63 11.06 9.49 15.13 17.72	5 5 6 4	70.00 14.50 67.00 55.83 91.25	19.70 9.57 19.80 17.99 5.91	-	• - •	0.002 0.085 0.720 0.049
Nabitat Mco	ins		0.37	0.08		0.28	0,11		4			3.32	0.69		2.77	0.86		÷			55.84	13.60		59.72	14.60		-	
Fisher's Stouffer'	s	Power Power			Power Power			P-val P-val		0.034 0.029	Power Power	0.153			er-50% er-50%		P-valu P-valu		0.076 0.115	Power Power	0.080			r-50% r-50%		P-valu P-valu		0.094x 0.871

- (a) Modified Shannon Index.(b) Taxa richness calculations are explained in the methods.
- x At least one sine pair p value < 0.100 in opposite direction of overall tests. y direction of difference between habital means is different than direction of overall tests. Only one site pair.

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2 Only one site				To	tal I	nverteb	rates								Rock								Pere	nnials (P)			
Site Pair	Mvd. I	N	С	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	ÇV	D	P	N	c	SE	N	0	SE	ĊΛ	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	-	6 6 6	2.08 2.08 10.00 6.25 6.67	1.64 1.64 5.55 3.64 6.18	6 6	17.08 2.92 5.00 6.25 9.17	10.5 2.4 3.1 2.7 4.1	5 - 0 - 2 -	- + 0	0.212 0.886 0.593 0.811 0.453	6 6 6 6	83.75 58.75 90.00 90.83 70.00	7.27 14.79 5.55 6.38 10.97	6 6	82.92 86.67 94.58 92.92 69.58	10.54 8.56 3.06 3.06	5 - 5 -	- -	0.807 0.121 0.654 0.946 0.920	6 6 6 6	14.17 36.67 0.00 0.42 23.33	7.46 13.30 0.00 0.42 11.67	6 6	0.00 8.33 0.00 0.83 18.33	0.00 5.94 0.00 0.53 10.36	-	0	0.064 0.065 1.000 0.549 0.876
Habitat Mea	ns		5.44	3.72		8.10	4.6	0	-			78.68	9.02		85.34	7.58	3	-			14.92	6.58		5.48	3.36		+	
Fisher's Stouffer'	P	ower ower	0.154 0.141			r-50% r-50%	0.609 0.654	P-val P-val			Power Power				er-50% er-50%		P-valu P-valu		0.312 0.178	Power Power	0.263			r-50% r-50%		-valu -valu		0.066 0.211
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	6 6 6	15.00 30.83 17.08 15.00 7.08	14.51 14.73 11.19 5.99 1.64	6 6	25.83 3.33 10.42 17.08 3.00	12.2 1.5 2.9 7.3 2.4	4 – 2 – 4 –	+ + -	0.536 0.095 0.797 0.779 0.068	6 6 6 6	46.67 30.00 70.00 79.58 57.92	17.99 12.50 15.04 7.34	6 6	37.92 72.08 75.83 63.75 27.50	13.22 14.29 10.03 10.12 17.03	9 - 3 - 2 - 1 -	- +	0.656 0.058 0.977 0.235 0.193	6 6 6 6	12.50 28.33 9.17 4.17 14.58	5.70 9.95 5.11 1.67 9.73	6 6 6	24.17 22.50 5.42 12.08 36.50	14.47 13.83 3.62 8.23 16.67	-		0.456 0.854 0.678 0.634 0.194
Habitat Mea	ns		17.00	9.60		11.92	5.2	6	•			56.84	13.52		55.42	12.93	2	+			13.76	6.44		20.14	11.36		-	
Fisher's Stouffer'		ower	0.210			r-50% r-50%	0.479	P-va P-va		0.091 0.153	Power Power				er-50% er-50%		P-val		0.248× 0.405	Power Power				r-50% r-50%		o-vain		
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	5 4 5	0.63 2.00 11.88 7.50 1.67	0.63 2.00 6.56 4.47 1.05	5 5 6	0.00 3.00 15.50 4.17 6.25	0.0 2.4 14.2 2.4 6.2	2 - 8 - 7 -	- - -	0.391 0.690 0.868 0.440 0.653	4 5 4 5 6	18.75 11.50 66.87 33.00 34.58	7.94 9.07 9.21 14.48 12.98	5 5 6	30.00 82.50 17.50 40.00 2.50	19,76 10.96 16.26 17.26 2.50	0 – 5 – 6 –	+	0.827 0.002 0.035 0.678 0.031	4 5 4 5 6	23.12 43.50 6.25 14.00 13.33	12.01 12.96 2.98 5.51 6.79	5 5 6 4	40.50 12.00 27.50 23.33 35.63	17.06 9.20 4.68 9.44 20.27	-	+ -	0.505 0.044 0.006 0.678 0.381
Habitat Mea	ns		4.74	2.96		5.80	5.1	0	-			32.96	10.74		34.50	13.3	4	-			20.04	8.06		27.78	12.14		-	
Fisher's Stouffer'		ower ower	0.004 0.011			r-50% r-50%	0.532 0.383	P-val P-val		0.729 0.647	Power Power				er-50%				0.053× 0.140	Power Power				z-50% z-50%		P-valu P-valu		0.030x 0.435

x At least one site pair p-value < 0.100 in opposite direction of overall tests.</p>
y direction of difference between habitat means is different than direction of overall tests.
2 Dayly 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. (Continued.)

					Annu	als (A)	,							Ephen	merals (3	E)												
Site Pair	Mvd	N	С	SE	N	0	SE	СV	D	P	N	c	SE	N	0	SE	ĊV	D	P	N	С	SE	N	0	SE	С	V D	Р
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6 6	0.00 2.50 0.00 2.50 0.00	0.00 2.04 0.00 2.50 0.00	6 6	0.00 2.08 0.42 0.00 2.92	0.00 1.64 0.42 0.00 2.08	-	+ - -	1.000 0.937 0.363 0.363 0.189	6 6 6 6	0.00 0.42 0.00 0.00	0.00 0.42 0.00 0.00	6 6 6	0.00 1.67 0.00 0.00 0.42	0.00 1.67 0.00 0.00 0.42	-	0	1.000 0.659 1.000 1.000 0.363									
Habitat Mea	ns		1.00	0.90		1.08	0.82		-			0.08	0.08		0.42	0.42		-										
Fisher's Stouffer'	s	Power Power	0.007		Power			P-val P-val		0.343 0.604	Power Power				r-50% r-50%				0.459 0.336	Power Power			Power Power			P-v P-v		
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2		25.83 10.83 3.75 1.25 20.42	13.00 6.85 2.87 1.25 14.03	6 6	12.08 2.08 8.33 7.08 32.50	4.54 1.19 4.36 4.30 15.83	-	+	0.681 0.364 0.451 0.229 0.458	6 6 6 6	25.42 0.00 3.33 0.00 19.58	12.75 0.00 2.86 0.00 13.82	6 6 5	12.08 1.25 8.33 6.67 22.50	4.54 1.25 4.36 4.41 11.48	-	-	0.693 0.363 0.396 0.180 0.665									
Habitat Mea	ıns		12.42	7.62		12,42	6.04		-			9.66	5.90		10.18	5.22		-										
Fisher's Stouffer'	s	Power Power	0.093 0.076		Power Power		0.595 0.767	P-val P-val	ue	0.320 y 0.235	Power Power				r-50% r-50%		P-val:	ue	0.151	Power Power			Power				value value	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522		5 4 5	46.25 43.00 15.00 45.50 29.17	9.87 13.52 10.05 13.45 12.56	5 5 6 4	29.50 2.50 39.50 32.50 55.63	18.07 2.50 16.23 14.32 21.56	- - -	+	0.301 0.007 0.385 0.465 0.199	4 5 4 5 6	43.13 21.50 11.88 39.50 23.33	8.38 12.36 7.32 13.31 9.48	5 6 4	24.50 2.50 37.50 29.17 53.75 29.50	15.13 2.50 15.63 12.34 22.58 13.62	-	-	0.217 0.153 0.339 0.513 0.148									
Habitat Mea Fisher's		Power	35.80		Power Power			P-val		0.043 0.046	Power Power			Powe	29,50 er-50% er-50%	0.852	P-val	ue	0.233	Power Power			Power Power	c-50% c-50%			value value	

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

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; $C = \text{control$

				7	otal	Chlorop	hyta					Mor	pholog	ical	Group: 2	Bladed G	reens					Bla	ded G	reens (A	E) (a)			
Site Pair M	bva	N	С	SE	N	0	SE	¢	V D	P	N	С	SE	N	0	SE	CV	D	P	N	c	SE	N	0	SE	ÇV	7 D	Þ
		6 6 6	0.00 0.42 0.00 0.00	0.00 0.42 0.00 0.00	<i>6</i> 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0	- 0 - + - 0 - 0	1,000 0.363 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0 0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) -) -	0	1.000
Habitat Means	s		0.08	0.08		0.00	0.0	10				0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00	כ	0	
Fisher's Stouffer's		ower			Sower	c-50%					Power Power				er-50% er-50%		P-val P-val		0,732 0.500	Power Power				r-50% r-50%				0.732 0.500
453C/453 601C/601 598C/598	2 2 2 2 2	6	1.67 2.08 2.92 0.00 10.83	1,67 2.08 2.92 0.00 8.98	6 6 6	3.33 0.00 0.42 0.83 9.00	2.1 0.0 0.4 0.8 7.8	10 2 3	 - + - + - +	0.549 0.363 0.566 0.363 0.957	6 6 6 6	1.67 0.00 0.00 0.00 0.00	1.67 0.00 0.00 0.00	6 6	0.00 0.00 0.42 0.00	0.00 0.00 0.42 0.00 0.00	-	0	0.363 1.000 0.363 1.000	6 6 6 6	1.67 0.00 0.00 0.00 0.00	1.67 0.00 0.00 0.00	6 6 6	0.00 0.00 0.42 0.00 0.00	0.00 0.00 0.42 0.00) - 2 -	- 0	0.363 1.000 0.363 1.000 1.000
Habitat Means	8		3.50	3.14		2.70	2.2	2	+			0.34	0.34		0.08	0.08		+			0.34	0.34		0.08	0.08	3	+	
Fisher's Stouffer's		ower ower	0.003 0.010		Power Power		0.050 0.196		alue alue		Power Power				er-50% er-50%		P-val P-val		0.632 0.534	Power Power				r-50% r-50%				0.632 0.534
601C/601	3 3 3 3	5 4 5	28.13 16.50 6.25 14.50 13.33	7.93 13.08 6.25 7.84 6.76	5 5 6	24.50 0.00 21.00 16.25 11.25	15.1 0.0 9.6 6.9 4.6	0 4 1	- ·	0.504 0.224 0.292 0.846 0.881	4 5 4 5 6	6.88 12.00 6.25 1.00 2.67	4.25 10.23 6.25 1.00 1.67	5 5 6	3.50 0.00 8.50 2.92 5.62	3,50 0.00 6.78 1.00 4.13	-		0.484 0.240 0.787 0.179 0.327	4 5 4 5 6	6.88 12.00 6.25 1.00 1.67	4.25 10.23 6.25 1.00 1.67	5 5 6	3.50 0.00 8.50 2.92 5.62	3.50 0.00 6.78 1.00 4.13) - 9 -	· -	0.484 0.240 0.787 0.179 0.327
Habitat Means	3		15.74	8.38		14.62	7.2	4	+			5.58	4.70		4.10	3.08		-			5.58	4.70		4.10	3.08	3	-	
Fisher's Stouffer's		ower ower	0.064		Power		0.774 0.782			0.424 0.354	Power Power	0.057 0.036			er-50% er-50%		P-val P-val		0.348 y 0.278	Power Power	0.071			r-50% r-50%				0.348 v 0.278

(a) Kormmannia, Monostroma, Ulya and Ulyaria.

x At least one sice pair p value < 0.100 to opposite direction of overall tests.

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

z Only one site pair.

Table C-5.332. Page 1. December :5, 1994

	Morphologica r Mvd N C SE		ical 0	roup:	Fine :	Filament	OUE	Gree	ns			Ac	rosi	phonia sp.	(A)					Ch	aetomo	rpha/R	hizoclon.	ium (A)	(a)			
Site Pair M	Mvd	N	C	9B	N	0	SE		GA D	Þ	N	С	SE	N	0	SE	CV I	D	P	N	С	SE	N	0	SE	C.	V D	P
601C/601 598C/598	1 1 1	6 6	0.00 0.42 0.00 0.00 0.00	0.00 0.42 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0	- 0 - + - 0 - 0	1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	1	- 0 - 0	1.000 1.000 1.000 1.000
Habitat Means	\$		0.08	0.08		0.00	0.0	0	+			0.00	0.00		0.00	0.00	•	o			0.00	0.00	ı	0.00	0.00	ı	0	
Fisher's Stouffer's		Power Power			Power Power					0.536 0.315	Power Power				er-50% er-50%		-value -value		0.732 0.500	Power Power				r-50% r-50%				0.732 0.500
453C/453 601C/601 598C/598	2 2 2 2 2	6 6	0.00 2.08 0.00 0.00 10.83	0.00 2.08 0.00 0.00 8.98	6 6 6	1.67 0.00 0.00 0.83 9.00	1.6 0.0 0.0 0.8 7.8	0 0 3	 - 0 	0.363 0.363 1.000 0.363 0.957	6 6 6 6	0.00 2.08 0.00 0.00 0.00	0.00 2.08 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0	+ 0	1.000 0.363 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		- o - o	1.000 1.000 1.000 1.000
Habitat Means	\$		2.58	2.22		2.30	2.0	6	-			0.42	0.42		0.00	0.00		+			0.00	0.00		0.00	0.00	1	o	
Fisher's Stouffer's		Power Power			Power Power		0.001			0.448 y 0.367	Power Power				er-50% er-50%		-value		0.536 0.315	Power Power				r-50% r-50%				0.732 0.500
453C/453 601C/601 598C/598	3 3 3 3	4 5 4 5 6	9.38 4.50 0.00 13.50 11.67	5.63 3.00 0.00 7.57 7.00	5 5 6	21.00 0.00 12.50 13.33 5.62	13.7 0.0 5.8 6.3 2.5	0 1 8	+ - + - + - +	0.706 0.187 0.079 0.984 0.862	4 5 4 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c	0	1.000 1.000 1.000 1.000 1.000	4 5 4 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- -	- o - o	1.000 1.000 1.000 1.000
Habitat Means	s		7.82	4.64		10.48	5.7	0	+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		٥	
Fisher's Stouffer's		Power Power			Power Power		0.333 0.473			0.552×y 0.385	Power Power				er-50% er-50%		-value		0.732 0.500	Power Power				r-50% r-50%				0.732 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-5.332. Algal Percent Cover. Chlorophyta. Prince William Sound. Sheltered Rocky. June 1991. Overstory removed July 1990. (Continued.)

				C1	adopho	ra sp.	(AE)						σ	loth	rix sp. (A	E)						τ	rospor	a sp. (2	LE)			
ite Pair	Mvđ	N	c	SE	N	0	SE	ĊV	Ď	P	N	С	SE	N	0	SE	CA I	•	P	N	С	SE	N	0	SE	CV	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6 6 6	0.00 0.42 0.00 0.00	0.00 0.42 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) -) -	0	1.000 0.363 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c		1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000 1.000
Habitat Mean	າຮ		0.08	0.08		0.00	0.0)	+			0.00	0.00		0.00	0.00	C	>			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	5	Power Power			Power Power			P-val P-val		0.536	Power Power				r-50% r-50%		-value -value		0.732 0.500	Power Power			Power Power					0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522		6	0.00 0.00 0.00 0.00 10.83	0.00 0.00 0.00 0.00 8.98	6	1.67 0.00 0.00 0.83 9.00	1.6 0.0 0.0 0.8 7.8) -) - 3 -		0.363 1.000 1.000 0.363 0.957	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0		1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mean	as		2.16	1.80		2.30	2.0	6	-			0.00	0.00		0.00	0.00	c)			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power	0.002		Power Power		0.000 0.000	P-val P-val		0.366	Power Power				r-50% r-50%		-value		0.732 0.500	Power Power			Power Power			P-valu P-valu		0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	4 5 4 5 6	9.38 4.50 0.00 13.50 11.67	5.63 3.00 0.00 7.57 7.00	5 5 6	21.00 0.00 12.50 13.33 5.62	13.7 0.0 5.8 6.3 2.5	0 - 1 - 9 -	÷ - •	0.706 0.187 0.079 0.984 0.862	4 5 4 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0))	1.000 1.000 1.000 1.000 1.000	4 5 4 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6 4	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mear	ns.		7.82	4.64		10.48	5.7	0	+			0.00	0.00		0.00	0.00	()			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	8	Power Power	0.020		Power Power		0.334 0.492	P-val		0.552×y 0.385	Power Power				er-50% er-50%		-value		0.732 0.500	Power Power			Power Power					0.732 0.500

At least one site pair p-value < 0.100 in opposite direction of oversal tests.</p>
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

	Mo	rphologic	al Gro	oup:	Tubular a	and Sac	cate Gr	ens		B1	idingi	a/En	teromorph	(AE) (a)											
Site Pair Mvd	N	С	SE	N	0	SE	GA D	P	N	С	SE	N	0	gr	CV	D	Р	N	С	SE	N	0	SE	cv	D	P
4825C/1424 1 453C/453 1 601C/601 1 598C/598 1 1522C/1522 1	6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0	1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0	1.000 1.000 1.000 1.000 1.000									
Habitat Means		0.00	0.00		0.00	0.00	0			0.00	0.00		0.00	0.00		0										
	Power Power			Power Power			P-value P-value		Power Power				er-50% er-50%				0.732	Power Power			Power Power			P-val		
4825C/1424 2 453C/453 2 601C/601 2 598C/598 2 1522C/1522 2	6	0.00 0.00 2.92 0.00 0.00	0.00 0.00 2.92 0.00 0.00	6 6	1.67 0.00 0.00 0.00 0.00	1.67 0.00 0.00 0.00 0.00	- o	1.000	6 6 6 6	0.00 0.00 2.92 0.00 0.00	0.00 0.00 2.92 0.00 0.00	6 6	1.67 0.00 0.00 0.00 0.00	1.67 0.00 0.00 0.00 0.00	-	0 +	0.363 1.000 0.363 1.000 1.000									
Habitat Means		0.58	0.58		0.34	0.34	-			0.58	0.58		0.34	0.34		-										
	Power Power			Power	c-50% c-50%		P-value P-value	0.632 y 0.534	Power Power				er-50% er-50%				0.632 y 0.534	Power Power			Powe:	r-50% r-50%		P-va P-va		
4825C/1424 3 453C/453 3 601C/601 3 598C/598 3 1522C/1522 3	5 4 5	11.87 0.00 0.00 0.00 0.00	11.87 0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- o - o	0.391 1.000 1.000 1.000	4 5 4 5 6	11.87 0.00 0.00 0.00 0.00	11.87 0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	0.391 1.000 1.000 1.000 1.000									
Habitat Means		2.38	2.38		0.00	0.00	+			2.38	2.38		0.00	0.00		+										
	Power Power			Power Power	r-50% r-50%		P-vaiue P-vaiue		Power Power				er-50% er-50%				0.550 0.453	Power Power				±-50% ±-50%		?-va. ?-va.		

⁽a) Genera not separated.

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

Table C-5.333. Algal Percent Cover. Phaeophyta. 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; CV = coefficient of variation; Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

					no+=1	Phaeoph	ut a					Mor	hologi	cal G	roup: I	aladed Br	OWDS					Tota	1 Fuc	us gardn	eri (P)			
Site Pair	Mvč		c	SE	N	0	88	cv	D	P	N	С	SE	N	0	SE	cv	D	P	N	c	SE	N	0	SE		, D	P
4825C/1424 453C/453 601C/601 598C/598	1 1 1 1	6 6 6	14.17 33.75 0.00 0.42 23.33	7.46 13.63 0.00 0.42 11.67	6 6 6	0.00 9.58 0.00 0.83 18.33	0.00 5.82 0.00 0.53	-	+ 0 -	0.064 0.112 1.000 0.549 0.877	6 6 6 6	14.17 32.92 0.00 0.42 23.33	7.46 13.42 0.00 0.42 11.67	6	0.00 7.92 0.00 0.83 15.42	0.00 6.04 0.00 0.53 9.82	-	+ 0 -	0.064 0.077 1.000 0.549 0.761	6 6 6	14.17 32.92 0.00 0.42 23.33	7.46 13.42 0.00 0.42 11.67	6 6	0.00 7.92 0.00 0.83 15.42	0.00 6.04 0.00 0.53 9.82	-) - ! -	- + - o	0.064 0.077 1.000 0.549 0.761
1522C/1522 Mabitat Mea	ns		14.34	6.64	Power	5.74	3.44		+ lue	0.091	Power	14.16		Powe	4.82 er-50%		P-val		0.067	Power	0.27		Powe	4.82 r-50% r-50%				0.067 0.214
Fisher's Stouffer'	s	Power	0.217		Power	~50%	0.440	P-vaî	iue	0.252	Power	0,281	5.70		24.17	0.479	P-val	.џе -	0.214	Power 6	12.50	5.70	6	24.17	14.47	, .		0.456
4825C/1424 453C/453 601C/601 598C/598	2 2 2	6 6	36.67 32.92 10.00 5.42	17,44 12,74 5,74 2,18 10,04	6 6	32.92 22.92 13.33 17.92 47.00	14.68 14.09 7.41 11.42 15.13	-	+ - -	0.832 0.674 0.818 0.554 0.163	6 6 6 6	26.25 9.17 4.17 13.75	9.19 5.11 1.67 9.81	6 6	21.67 5.42 12.08 29.00	14.06 3.62 8.23 17.39	-	+ - -	0.806 0.678 0.634 0.324	6 6 6	26.25 9.17 4.17 13.75	9.19 5.11 1.67 9.81	6 6	21.67 5.42 12.08 29.00	14.06 3.62 8.23 17.39	3 -		0.806 0.678 0.634 0.324
1522C/1522 Habitat Mea	2 ins	6	22.50 21.50	9.60	J	26.80	12.54		-	*		13.20	6.30		18.48	11.56		-		_	13.20	6.30		18.48 er-50%	0.673		alue	0.377
Fisher's Stouffer'		Power			Power Power			P-val P-val		0.337 0.291	Power Power				er-50% er-50%		P-val P-val		0.377	Power	0.11	5	Powe	er-50%	0.765	P-V	a_ue	0.326
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	4 5 4 5	41.25 25.50 14.38 44.00 24.17	11.61 8.96 5.04 8.75 9.95	5 5 6	38.50 9.00 38.00 37.92 68.13	17.55 5.57 10.47 12.00 5.44	· -	+ - +	0.949 0.179 0.094 0.572 0.014	4 5 4 5 6	23.12 20.50 5.63 14.00 13.33	12.01 7.84 3.29 5.51 6.79	5 5 6 4	38.50 6.50 21.50 23.33 25.62	17.55 4.15 3.92 9.44 13.48	- - -	- - - -	0.555 0.162 0.018 0.678 0.570	4 5 4 5 6	23.12 20.50 5.63 14.00 13.33	12.01 7.84 3.29 5.51 6.79	5 5 6 4	38.50 6.50 21.50 23.33 25.62 23.08	17.55 4.19 3.92 9.44 13.44	5 2 4 8	 	0.555 0.162 0.018 0.678 0.570
Habitat Mea Fisher's Stouffer		Powe:			Power	38.30 r-50% r-50%	10.22 0.750 0.785			0.538×y 0.396	Power Power			Powe	23.08 er-50% er-50%		P-val P-val		0.079 0.372	Power Power		-	Powe	er-50% er-50%		P- v		0.079 0.372

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

Fucus Stipes (P) (a) Juvenile Fucus gardneri (P) (<= 2cm) Adult Fucus gardneri (P) (> 2cm) 0 SE CV D P SE N C CV D SE c P CA D Site Pair Mvd N c SE .000 0.00 0.00 0.0 5.00 0.00 0.049 1.000 4.41 0.00 0.00 0.00 0.00 0.00 0 9.11 4825C/1424 0.83 0 0.767 0.83 0,103 0.83 0.53 - o 1,000 13.68 7.08 6.10 0.00 0.00 32.08 0.00 0.00 453C/453 6 0.00 0 1.000 0.00 0.00 - o 1.000 0.00 0.00 - o 1.000 0.00 0.00 0.00 0.00 0.00 0.00 0.00 601C/601 6 0.42 0.363 0.00 0.42 0.00 6 0.42 o 1.000 - o 1.000 0.42 0.42 0.42 0.00 0.00 0.00 0.00 598C/598 6 0.00 0.00 0.363 9,82 0.773 0.42 0.42 6 22.92 11.48 15.42 1522C/1522 6 0.00 0.00 0.00 0.00 0.82 0.24 0.24 1.24 6.00 4.58 12.92 Habitat Means P-value Power-50% 0.732 0.356 Power 0.177 P-value 0.068 Power-50% P-value 0.055 Power --- P-value 0.500 Power-50% Power-50% Fisher's Power 0.687 Power 0.214 P-value Power-50% 0.046 0.380 P-value 0.115 Power Power-50% 0.369 Power Stouffer's 0.00 1.000 0.00 0.00 n na 0.00 0.040 0.00 9.17 0.116 2.20 24.17 14.47 0.00 0.00 0.00 - o 1.000 3.33 4825C/1424 0.00 1.000 0.00 0.00 0 0.00 0.00 0.806 21.67 14.06 0.00 0.00 - 0 1.000 9.19 0.00 26.25 1.000 0.00 453C/453 0.00 0.00 Q + 0.678 0.00 0.00 5.42 3.62 0.00 0.00 - 0 1 000 5.11 0.00 9.17 0.00 601C/601 6 1.000 0.42 0.42 0 0.42 0.42 6 0.717 0.374 3.75 1.68 11.67 8.33 0.00 0.50 0.50 598C/598 6 0.50 0.662 0.00 0.50 0.283 0.83 0.53 9.99 28.50 17.44 12.92 1522C/1522 6 0.10 0.00 0.00 0.10 0.18 0.18 1.02 2.08 18.30 11.58 11.10 5.64 Habitat Means Power-50% --- P-value 0.542 0.250 P-value 0.164 Power 0.195 Power-50% Power-50% P-value 0.196 Power --- P-value 0.427 Power-50% 0.305 0.353 Power Fisher's Power 0.252 P-value Power-50% 0.103 0.773 P-value 0.310 Power Power-50% Power 0.160 Stouffer's 0.00 1.000 0.00 0.00 0.00 0.00 0.00 0 1.000 0.00 0.00 0.555 23.12 12.01 38.50 17.55 0.00 0.00 0.00 0 1.000 1.000 0.00 4825C/1424 0.00 0.00 0 - + 0.162 0.00 0.00 5 6.50 4.15 0.00 - 0 1.000 7.84 0.00 0.00 453C/453 5 20.50 1.00 0.933 0.00 1.00 0.63 0.63 20.50 3.82 - 0.014 0.00 0 1.000 2.70 0.00 0.00 4 5.00 0.559 0.00 601C/601 1.25 0.56 1.00 1.00 - 0.673 22.08 9.30 0.00 0 1.000 5.67 0.00 0.00 598C/598 13.00 0.00 0.00 0.42 0.42 4 0.00 0.546 25.62 13.48 6.84 1522C/1522 3 б 12.92 0.00 0.00 0.00 0.00 0.32 0.40 0.46 0.40 14.90 7.00 22.64 9.68 Habitat Means --- P-value 0.732 Power-50% Power-50% --- P-value 0.702 POWEY 0.014 --- P-value 0.065 Power --- P-value 0.500 Power-50% Power-50% Fisher's Power --- P-value 0.388 Power Power-50% 0.687 P-value 0.359 Power 0.008 0.316 Power-50%

Table C 5.333. Fage 1. December 15. 1994

 ⁽a) Dead Pucus 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-5.333. Algal Percent Cover. Phaeophyta, Prince William Sound. Sheltered Rocky. June 1991. Overstory removed July 1990. (Continued.)

			1	etalo:	nia/P	unctaria	(AE) (b)			Mo	rphologic	al Gr	oup:	Coarse	Filament	ous B	FOW	ms			Di	ctyos:	iphon sp.	(A)			
Site Pair	Mv¢	N	С	SE	Ŋ	0	SE	CV	D	P	N	С	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	ÇV	ם	P
4825C/1424 453C/453 601C/601 598C/598 152ZC/1522	1 1 1 1	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 00.0 00.0	-	0	1,000 1,000 1,000 1,000 1,000	6 6 6 6	0.00 0.83 0.00 0.00	0.00 0.53 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00 2.50	0.00 0.00 0.00 0.00 1.71	-	+	1,000 0.175 1.000 1.000 0.183	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-		1.000 1.000 1.000 1.000
Habitat Mean	ns		0.00	0.00		0.00	0.00		Ó			0.16	0.10		0.50	0.34		-			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	s	Power Power				r-50% r-50%		P-val P-val		0.732 0.500	Power Power	0.001			r-50% r-50%		e-valu		0.511 y 0.329	Power Power			Power	c-50% c-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	0	1.000 1.000 1.000 1.000	6 6 6	0.42 6.67 0.42 1.25 0.00	0.42 4.27 0.42 1.25 0.00	6 6 6	0.00 0.00 0.00 0.00 4.50	0.00 0.00 0.00 0.00 4.50	-	+	0.363 0.176 0.363 0.363 0.374	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mean	ns		0.00	0.00		0.00	0.00		0			1.76	1.28		0.90	0.90		•			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	s	Power Power	 - - -			r-50% r-50%				0.732 0.500	Fower Power	0.181			r-50% r-50%		P-valu		0.115 0.058	Power Power				r-50% r-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3	5 4	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		0	1.000 1.000 1.000 1.000	4 5 4 5 6	3.13 0.00 3.13 5.00 0.83	1.88 0.00 3.13 3.16 0.83	5 5 6	0.00 0.00 0.00 1.67 0.00	0.00 0.00 0.00 1.67 0.00	-	+ 0 + + .	0.185 1.000 0.391 0.173 0.363	4 5 4 5 6	0.00 0.00 0.00 0.50 0.00	0.00 0.00 0.00 0.50 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 0.374 1.000
Habitat Mear	ns		0.00	0.00		0.00	0.00		0			2.40	1.80		0.34	0.34		-			0.10	0.10		0.00	0.00		•	
Fisher's Stouffer's	s	Power Power				er-50% er-50%				0.732 0.500	Power Power				r-50% r-50%		P-valu P-valu		0.060 0.052	Power Power				r-50% r-50%				0.542 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.

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			My	elopby	cus/S	cytosipl	on (A)	(a)				Morpholog	ical G	LOUD	: Fine P	Filament	ous B	TOW	18		F	ine Fil	ament	ous Brow	ns (AE)	(p)		
Site Pair	Mvd	a N	c	SE	N	- 0	SE	CV	D	P	N	С	SE	N	0	SE	CV	ם	P	N	С	SE	N	٥	SE	CA	7 D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6 6 6 6	0.00 0.83 0.00 0.00	0.00 0.53 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00 2.50	0.00 0.00 0.00 0.00 1.71		0	1.000 0.175 1.000 1.000 0.183	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 1.67 0.00 0.00 0.42	0.00 1.67 0.00 0.00	' -) -	ō	1.000 0.363 1.000 1.000 0.363	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 1.67 0.00 0.00 0.42	0.00 1.67 0.00 0.00 0.42	; -) -	- 0	1.000 0.363 1.000 1.000 0.363
Habitat Mean	าธ		0.16	0.10		0.50	0.34		٠			0.00	0.00		0.42	0.42		_			0.00	0.00		0.42	0.42	?	-	
Fisher's Stouffer's	s	Power Power	0.001 0.000		Power Power					0.511 y 0.329	Power Power				er-50% er-50%		P-val P-val		0.359 0.251	Power Power				er-50% er-50%				0.359 0.251
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	6 6 6	0.42 6.67 0.42 1.25 0.00	0.42 4.27 0.42 1.25 0.00	6 6	0.00 0.00 0.00 0.00 4.50	0.00 0.00 0.00 0.00 4.50		+	0.363 0.176 0.363 0.363 0.374	6 6 6 6	23.75 0.00 0.42 0.00 8.75	1:.86 0.00 0.42 0.00 5.54	6 6	8.75 1.25 7.92 5.83 13.50	5.11 1.25 4.40 3.75 6.92	; - ; -	-	0.465 0.363 0.119 0.176 0.437	6 6 6 6	23.75 0.00 0.42 0.00 8.75	11.86 0.00 0.42 0.00 5.54	6 6	8.75 1.25 7.92 5.83 13.50	5.11 1.25 4.40 3.75 6.92	5 - 5 -		0.465 0.363 0.119 0.176 0.437
Habitat Mean	ns		1.76	1.28		0.90	0.90		+			6.60	3.56		7.46	4.30)	~			6.60	3.56		7.46	4.30)	-	
Fisher's Stouffer's	s	Power Power	0.172		Power Power					0.115 0.058	Power Power				er-50% er-50%		P-val P-val		0.064 0.025	Power Power				er-50% er-50%				0.064 0.025
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	4 5 4 5 6	3.13 0.00 3.13 4.50 0.83	1.88 0.00 3.13 3.30 0.83	5 5 6	0.00 0.00 0.00 1.67 0.00	0.00 0.00 0.00 1.67 0.00	- - -	0 + +	0.185 1.000 0.391 0.326 0.363	4 5 4 5 6	15.00 5.00 5.62 25.00 10.00	4.45 4.40 4.13 6.94 4.61	5	0.00 2.50 16.50 12.92 42.50	0.00 2,50 8.05 6.50	; - ; -	+	0.009 0.640 0.411 0.197 0.074	4 5 4 5 6	15.00 5.00 5.62 25.00 10.00	4.45 4.40 4.13 6.94 4.61	5 5 6	0.00 2.50 16.50 12.92 42.50	0.00 2.50 8.05 6.50) - 5 -		0.009 0.640 0.411 0.197 0.074
Habitat Mean	ns		2.30	1.82		0.34	0.34		+			12.12	4.90		14.88	7.20)				12.12	4.90	1	14.88	7.20)	+	
Fisher's Stouffer's	s	Power Power			Power Power					0.087 0.091	Power Power	0.047			er-50% er-50%		P-val P-val		0.051xy 0.147	Power Power	0.04			er-50% er-50%				0.051xy 0.147

(a) Genera not separated.

⁽b) Elachista, Ectocarpus and Pilayella. * 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-5.333. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. June 1991. Overstory removed July 1990. (Continued.)

			Morph	ologic	al Gr	oup: Sac	ccate B	OWILE				<u>.</u>	<u>ont</u> he	ء/هذه	nlno meni a	(A) (a)						Sora	nthera	ulvoide	sa (A)			
Site Pair	Myd			SE	N	0	SE	CV	D	P	N	С	SE	N	o	SE	ÇV	D	P	N	C	88	N	U	32	÷ν	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- -	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000 1.000 1.000
Habitat Mea	ns	Power	0.00	0.00	Power	0.00 -50%	0.00	P-val	o .ue	0.732	Power	0.00	0.00		0.00 r-50%		-val		0.732	Power	0.00		Power			P-va.		0.732 0.500
Fisher's Stouffer'	S	Power			Power			P-val		0.500	Power			Dowe	r-50%		-val:		0.500	Power]ower					1.000
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	00000	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	_		1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000 1.000
Habitat Mea	_		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	•	0	
Fisher's Stouffer'		Power Power			Powe:			P-va. P-va.		0.732 0.500	Power Power				r-50% r-50%		P-valu P-valu		0.732 0.500	Power Power			Power Power	-50%			ue	0.732
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	4 5 4 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000	4 5 4 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	5 4 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000
Habitat Mea Fisher's Stouffer		Power Power	0.00	0.00		0.00 r-50% r-50%		P-va		0.732 0.500	Power Power	0.00			0.00 er-50% er-50%		P-val: P-val:		0.732 0.500	Power Power			Power	r-50% r-50%		P-va	ue	0.732 0.500

(a) Genera not separated.

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

z Only one site pair.

Ralfsia/Petroderma (P) (a) Morphological Group: Crustose Browns CV D P C N O SE CV D P C gπ N CA D P 8E Site Pair Mvd N C 1.000 0.00 0.00 1.000 0.00 0.00 0 0.00 0.00 0.00 0.00 0 4825C/1424 1.000 0.00 0.00 0 - o 1.000 0.00 0.00 0.00 0.00 0.00 0.00 453C/453 0.00 0.00 1.000 0 0.00 0.00 - 0 1.000 0.00 0.00 0.00 0.00 601C/601 0.00 0.00 0 1.000 0.00 1.000 0.00 - 0 0.00 0.00 0.00 0.00 598C/598 0.00 1,000 0.00 0.00 0.00 - 0 1.000 0.00 0.00 0.00 0.00 1522C/1522 0.00 0.00 0.00 0.00 a 0.00 0.00 0.00 Habitat Means 0.00 --- P-value --- P-value 0.732 Power-50% Power-50% Power_ --- P-value 0.732 Power Power-50% --- P-value Fisher's Power ___ Power_ Power-50% --- P-value 0.500 Power-50% Power-50% --- P-value 0.500 Power Stouffer's Power ---0.00 0.00 0.00 - 0 1.000 0.00 o 1.000 0.00 0.00 0.00 0.00 4825C/1424 - o 1.000 0.00 0.00 0.00 0.00 0.00 o 1.000 0.00 0.00 0.00 453C/453 - p 1.000 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 o 1.000 6 601C/601 2 1.000 0.00 0.00 0.00 0 0.00 0.00 - o 1.000 0.00 0.00 0.00 598C/598 0.00 - Q 1.000 0.00 0.00 0.00 o 1.000 0.00 0.00 0.00 0.00 1522C/1522 6 0.00 0.00 0.00 0 0.00 0.00 0,00 0.00 0.00 0 Habitat Means Power-50% --- P-vēlue --- P-value 0.732 Power-50% Power --- P-value 0.732 Power Power-50% Fisher's Power Power-50% --- P-velue Power-50% --- P-value 0.500 Power Power-50% --- P-value 0.500 Power ---Power ___ Stouffer's 1.000 - 0 0.00 0.00 0.00 0.00 0.00 1.000 0.00 0.00 0.00 4825C/1424 1.000 0.00 0.00 0.00 - 0 0.00 0.00 0.00 0.00 - 0 1.000 5 453C/453 0 1,000 n no 0.00 0.00 0.00 0.00 0.00 0 1.000 0.00 0.00 5 601C/601 4 0.00 1.000 0.00 0.00 5 0.00 0 0.00 0.00 0.00 0 1.000 598C/598 0.00 0.00 1.000 0.00 4 0.00 O 0.00 0.00 0.00 0.00 0 1.000 0.00 1522C/1522 6 0.00 0.00 0.00 0.00 0.00 0.00 Habitat Means 0.00 0.00 Power-50% --- P-value --- P-value 0.732 Power-50% Power --- P-value 0.732 Power Power-50% Power-50% --- P-vélue Fisher's Power Power-50% --- P-value 0.500 Power --- P-value 0.500 ---Power-50%

Table C-5.333, Page 5 December 15, 1994

[|]a| Genera not separated.

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

z Only one site pair.

Table C-5.334. Algal Percent Cover. Rhodophyta. 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.

				7	rota1	Rhodoph	yta					Mor	pholog	ica1	Group:	Bladed F	Reds						Bangi	авр. (Al	2)			
Site Pair	Mvd	N	c	SE	N	0	Se	ĊΛ	D	P	N	С	Se	N	0	SE	CV	Þ	P	N	c	SE	N	0	SE	CV	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1	6 6 6 6	0.00 5.00 0.00 2.50 0.00	0.00 1.94 0.00 2.50 0.00	6 6	0.00 0.83 0.42 0.00 2.92	0.00 0.53 0.42 0.00 2.92	-		1.000 0.101 0.363 0.363 0.363	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0	1.000 1.000 1.000 1.000 1.000
Habitat Mea	ıns		1.50	0.88		0.82	0.76		٠			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'		Power Power	0.094		Powe:			P-val P-val		0.315	Power Power				r-50% r-50%		P-val P-val		0.732	Power Power				r-50% r-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2	6 6	0.00 4.17 0.00 0.00 1.67	0.00 2.71 0.00 0.00 1.05	6 6	0.00 1.67 0.00 0.42 13.00	0.00 1.24 0.00 0.42 8,12	-	0 +	1.000 0.353 1.000 0.363 0.278	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mea	ans		1.18	0.76		3.02	1.94		-			0.00	0.00		0.00	0.00	1	0			0.00	0.00		0.00	0.00		. 0	
Fisher's Stouffer'	' g	Power Fower	0.019		Power			P-val P-val		0.396	Power Power				er-50% er-50%		P-val P-val		0.732	Power Power				r-50% r-50%		P-va		0.732
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3	4 5 4 5 6	0.00 44.50 0.63 1.00 5.00	0.00 17,16 0.63 1.00 5.00	5 5 6	7.00 5.50 8.00 1.67	5.33 5.50 4.29 1.24 7.73	· -		0.208 0.041 0.173 0.691 0.390	4 5 4 5 6	0.00 16.50 0.00 0.00 0.00	0.00 14.70 0.00 0.00 0.00	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	0	1.000 0.262 1.000 1.000	4 5 4 5 6	0.00 0.00 0.00 0.00	0.00	5 5 6 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-		1.000 1.000 1.000 1.000
Habitat Mea	ans		10.22	4.76		6.82	4.80)	-			3.30	2.94		0.00	0.00	}	+			0.00	0.00		0.00	0.00		0	
Fisher's	, ~	Power	0.183		Power	r-50% r=50%	0.201 n 41?	P-val P-val		0.137xy n 544	Power Power	0.000 0.000			er-50% er-50%		P-val P-val		0.475 0.276	Power Power				r-50% r-50%				0.732

x At least one site pair p-value < 0.100 in opposite direction of 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 1. December 35. 1994

z Only bne site	parr.			Gigart	inace	ae Group	(P) (a	}					P	almar	ia spp.	(A)						Phy	codry	ys riggii	(A)			
Site Pair	Mvd	N		SE	N	0	SE	CV	D	P	N	С	SB	N	0	SE	cv	Ď	P	N	c	SE	N	0	SE	cv	D	Р
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.0) -) -	o	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0	1.000 1.000 1.000 1.000 1.000
Tabitat Mea	ns	Power	0.00	0.00		0.00 r-50%	0.0	P-val		0.732	Power	0.00	0.00		0.00 r-50%		P-val		0.732	Power Power	0.00	0.00		0.00 r-50% r-50%		P-va:		0.732
Stouffer'		Power				r-50% 0.00	0.0	P-val		0.500	Power 6	0.00	0.00		r-50% 0.00	0.00	P-val -	lue	0.500	6 Fower	0.00	0.00		0.00	0.00	-	0	1,000
1825C/1424 153C/453 501C/601 598C/598 L522C/1522	2 2 2 2	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00	0.0) -) -) -	0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00	0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6	0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mea	_	•	0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	's	Power Power				r-50% r-50%		P-va P-va		0.732	Power Power				r-50% r-50%		P-val P-val		0.732 0.500	Power Power				r-50% r-50%				0.732
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3	4 5 4 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0 - 0 -	0	1.000 1.000 1.000 1.000 1.000	4 5 4 5 6	0.00 16.50 0.00 0.00 0.00	0.00 14.70 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	. 0 0	1.000 0.262 1.000 1.000	4 5 4 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000 1.000
Habitat Mea	ans		0.00	0.00		0.00	0.0	0	0			3.30	2.94		0.00	0.00		•			0.00	0.00		0.00	0.00		0	0.722
Fisher's Stouffer'	′ ន	Power Power				r-50% r-50%		P-va P-va		0.732 0.500	Power Power	0.000			r-50% r-50%		P-val P-val		0.475	Power Power				r-50% r-50%				0.732 0.500

(a) Chondrus, Iridaes, Mastocarpus and Rhodoglossum.

At least one site pair p value < 0.100 in opposite direction of overall tests.</p>
y Direction of difference between habital means is different than direction of overall tests.
c Ouly one site pair.

Table C-5.334. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. June 1991. Overstory removed July 1990. (Continued.)

				:	Porp	hyra sp. ()	L)						Rhod	ужег	nia pertus	a (A)						Tokiđa	dendr	on kurile	nsis (A	()		
St Olt 1	Mvđ	N	С	SE	N	0	SE	CV	D	P	N	С	8E	N	0	SE	CV	D	P	N	C	SE	N	0	SE	cv	ם ז	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1	6 6 6 6	0.00 0.00 0.00 0.00 0.00	00.0 00.0 00.0 00.0	6 6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0 - 0 -	00000	1.000 1.000 1.000 1.000	6 6 6 6	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 0 0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000
Habitat Mean	19		0.00	0.00		0.00	0.0	0	o			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	ı	0	
Fisher's Stouffer's		Power Power				er-50% er-50%				0.732 0.500	Power Power				er-50% er-50%		P-valu P-valu		0.732 0.500	Power Power				r-50% r-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0	10 -	0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) -) -) -	- 0	1.000 1.000 1.000 1.000 1.000
Habitat Mean	15		0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer's		Power Power				er-50% er-50%				0.732 0.500	Power Power				er-50% er-50%		P-valu P-valu		0.732 0.500	Power Powe≃				r-50% r-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0	10 - 10 -	0	1.000 1.000 1.000 1.000	4 5 4 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000 1.000	4 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	1 5 1 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) -) -) -	- 0	1.000 1.000 1.000 1.000 1.000
Habitat Mean	ns		0.00	0.00		0.00	0.0	0	Q			0.00	0.00		0.00	0.00		0			0.00	0.00	1	0.00	0.00)	O	
Fisher's Stouffer's		Power Power				er-50% er-50%				0.732 0.500	Power Power				er-50% er-50%		P-valu P-valu		0.732 0.500	Power Power				r-50% r-50%				0.732 0.500

x. At least one site pair p-value < 0.100 in opposite direction of overall tests, y. Direction of difference between habital years is different than direction of overall tests. Z. Only one site pair.

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

z Only one site			Morpholog	ical G	roup:	Coars	e Filamen	tous	Red	ls		λr	ticul	ate C	coralline	Algae (A)					Crypt	osiph	onia woo	dii (A)			
Site Pair	Mvd	1 N	c	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	cv	Þ	P	N	С	SE	N	0	SE	CV	ם ז	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1	6 6 6 6	0.00 3.33 0.00 2.50 0.00	0.00 1.79 0.00 2.50 0.00	6 6 6 6	0.00 0.42 0.42 0.00 2.92	0.00 0.42 0.42 0.00 2.92	- - -	+ - +	1.000 0.162 0.363 0.363 0.363	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		0 0 0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) -) -	0	1.000 1.000 1.000 1.000
Habitat Mea Fisher's Stouffer'		Power	1.16 0.010 0.006	0.86	Power			P-val P-val		0.387 0.147	Power Power	0.00	0.00	Powe	0.00 2r=50% 2r=50%		P-valu P-valu		0.732 0.500	Power Power	0.00		Power	0.00 -50% -50%		P·va		0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522 Habitat Mea	2 2 2 2 2		0.00 2.08 0.00 0.00 1.67	0.00 1.19 0.00 0.00 1.05	6 6 6 5	0.00 1.67 0.00 0.42 12.00	0.00 1.24 0.00 0.42 7.72	- - - -	0		6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	6 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00 0.83	0.00 0.00 0.00 0.00 0.83	6 6 6 5	0.00 0.00 0.00 0.00 4.50	0.00 0.00 0.00 0.00 4.50) -) -) -	0	1.000 1.000 1.000 1.000 0.549
Fisher's Stouffer'		Power Power	0.045 0.085	0.40	Power Power	-50%	0.079			0.367 0.235	Power Power			Powe	er-50% er-50%	1	P-valu P-valu		0.732 0.500	Power Power				-50% -50%				0.616 0.451
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3	4 5 4 5 6	0.00 22.00 0.63 0.00 5.00	0.00 10.53 0.63 0.00 5.00	5 5 6 4	3.00 5.50 6.50 0.42 10.00	3.00 5.50 3.12 0.42 7.71	-	- - - -	0.374 0.133 0.170 0.363 0.475	4 5 4 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0000	1.000 1.000 1.000 1.000	4 5 4 5 6	0.00 0.00 0.00 0.00 5.00	0.00 0.00 0.00 0.00 5.00	5 5 6	1.00 0.00 0.50 0.42 0.00	1.00 0.00 0.50 0.42 0.00) - ! -	- o 	0.374 1.000 0.374 0.363 0.363
Habitat Mea Fisher's Stouffer'		Power Power	5.52 0.126 0.128	3.22	Power			P-val		0.143 y 0.309	Power Power	0.00	0.00	Powe	0.00 er-50% er-50%		P-valu		0.732 0.500	Power Power	1.00		Power	0.38 -50% -50%		P-va		0.291

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

Table C-5.334. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. June 1991, Overstory removed July 1990. (Continued.)

				Endo	cladia	a muricat	a (P)						Gloi	opelti	s furcat	a (A)					1	Seorhod	omela	/Rhodomel	a (P) (a)		
Site Pair	Mvd		c	SE	N	0	SE	cv	D	P	N	С	SE	N	0	SE	CV D	,	P	N	С	SE	N	٥	SE	(CV D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6 6 6	0.00 0.42 0.00 0.00	0.00 0.42 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	0	1,000 0.363 1,000 1,000	6 6 6	0.00 1.25 0.00 2.50 0.00	0.00 1.25 0.00 2.50 0.00	6 6 6 6	0.00 0.42 0.42 0.00 0.00	0.00 0.42 0.42 0.00 0.00	- c	+	1.000 0.718 0.363 0.363 1,000	6 6 6 6	0.00 1.67 0.00 0.00	0.00 1.67 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	 	- 0 - 0	0.363 1.000 1.000
Habitat Mea	ns		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 Stouffer'	9	Power Power			Power			e-val		0.536 0.315	Power Power			Power Power			e-value e-value		0.567 0.246	Power Power				r-50% r-50%			value value	0.536 0.315
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0 0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.42 0.00 0.00	0.00 0.42 0.00 0.00 0.00	6 6	0.00 0.83 0.00 0.42 0.00	0.00 0.53 0.00 0.42 0.00		0	1.000 0.549 1.000 0.363 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		- 0 - 0 - 0	1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00		0.00	0.00		0			0.08	0.08		0.24	0.18	-	-			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer'		Power			Power			P-val		0.732 0.500	Power Power	0.011		Power Power			P-value P-value		0.427	Power Power				r-50% r-50%			value value	0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	4 5 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000	4 5 4 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c	0	1.000 1.000 1.000 1.000 1.000	4 5 4 5 6	0.00 1.00 0.00 0.00	0.00 1.00 0.00 0.00	5 5 6 4	0.00 0.00 0.00 0.00 8.12	0.00 0.00 0.00 0.00 8.12	2	- 0 	0.374
Habitat Mea Fisher's		Power	0.00	0.00	Power	0.00 r-50% r-50%		P-val P-val		0.732 0.500	Power Power	0.00	0.00	Power Power			P-value P-value		0.732 0.500	Power Power	0.20		Powe	r-50% r-50%		Р-		0.634 y 0.385

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

Table C-3.334. Page E. December 15, 1994

z Only one site	pair.												D+ i 1 0+	- /Na	eoptilota	(P) (h)					Mor	pholog	ical G	roup: 8	accate I	Reds		
						a flocco		ć۷	Đ	P			SE	N	0	SE	CV D	,	ъ	N	c	SE	N	0	SE	cv	D	P
Site Pair	MVd	N	C	SE	N	0	SE	CV		F		Č																
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00 2.92	0.00 0.00 0.00 0.00 2.92	-	0	1.000 1.000 1.000 1.000 0.363	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0		1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0	1.000 1.000 1.000 1.000
Habitat Mea	rs		0.00	0.00		0.58	0.58		-			0.00	0.00		0.00	0.00	C)			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'		Power			Power			P-val P-val		0.536 0.425	Power Power				er-50% er-50%		-value -value		0.732 0.500	Power Power			Power Power					0.732
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2		0.00 1.67 0.00 0.00 0.83	0.00 1.24 0.00 0.00 0.83	6 6	0.00 0.83 0.00 0.00 7.50	0.00 0.83 0.00 0.00 7.50	-	+	1.000 0.580 1.000 1.000 0.474	6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c	5	1,000 1,000 1,000 1,000 1,000	6 6 6 6	0.00 1.67 0.00 0.00 0.00	0.00 1.67 0.00 0.00	6 6 5	0.00 0.00 0.00 0.00 1.00	0.00 0.00 0.00 0.00		0	1.000 0.363 1.000 1.000 0.374
Habitat Mea	ns		0.50	0.40		1.66	1.66		-			0.00	0.00		0.00	0.00	0	Ç			0.34	0.34		0.20	0.20		+	
Fisher's Stouffer'		Power Power	0.000		Power		0.005 0.007			0.656 0.558	Power Power				er-50% er-50%		?-valu€ ?-valu€		0.732 0.500	Power Power			Power Power					0.630
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3	4 5	0.00 21.00 0.63 0.00 0.00	0.00 10.57 0.63 0.00 0.00	5 5 6	2.00 5.50 6.00 0.00 1.88	2.00 5.50 2.81 0.00 1.88	-	- 0 -	0.374 0.146 0.172 1.000 0.391	4 5 4 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- (c	0	1.000 1.000 1.000 1.000 1.000	4 5 4 5 6	0.00 0.00 0.00 0.50 0.00	0.00 0.00 0.00 0.50	5 6 4	0.00 0.00 1.50 1.25 1.88	0.00 0.00 1.50 0.85 1.88	-	: -	1.000 1.000 0.374 0.565 0.391
Habitat Mea	ins		4.32	2.24		3.08	2.44		-			0.00	0.00		0.00	0.00	•	0			0.10	0.10		0.94				
Fisher's		Power	0.037		Power	r-50% r 50%				0.220 y	Power Power				rer-50% rer-50%		P-value P-value			Power Power	0.02		Power Power				alue alue	0.290

⁽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.
2 Only one site pair.

Table C-5.334. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. June 1991. Overstory removed July 1990. (Continued.)

			,	Halosa	ccion	glandifo	rme (A)	,					На	Losac	cion app.	(A)					Morpholo	gical	Group:	Fine	Filament	ouë !	Redø	
Site Pair	Mvd	N		SE	N .	0	SE		D	P	N	С	9E	N	0	SE	CV	D	P	N	С	SE	N	0	SE	GA	ם	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000
Habitat Mea	ıns	Power	0.00	0.00	Power	0.00 50%	0.00		o lu e	0.732	Power	0.00	0.00		0.00 r-50%		P-val		0.732	Power	0.00	0.00	Power			P-val		0.732
Stouffer'	-	Power			Power					0.500	Power			Powe	x-50%		9-val	ue.	0.500	Power			Power			P-val		0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2	6 6 6	0.00 1.67 0.00 0.00	0.00 1.67 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 0.363 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	_	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000
Habitat Mea	_	0	0.34	0.34		0.20	0.20		+			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	2	Power		0.51	Power	r-50%		p-val P-val		0.630	Power Power				r-50% r-50%		P-val P-val		0.732	Power Power			Power Power			P-val P-val		0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	-	4 5 4 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 1.50 0.42 1.88	0.00 0.00 1.50 0.42 1.88	- ! -	0	1.000 1.000 0.374 0.363 0.391	4 5 4 5 6	0.00 0.00 0.00 0.50 0.00	0.00 0.00 0.00 0.50 0.00	5 5 6	0.00 0.00 0.00 0.83 0.00	0.00 0.00 0.00 0.53 0.00	-	0	1.000 1.000 1.000 0.662 1.000	4 5 4 5 6	0.00 5.00 0.00 0.50 0.00	0.00 3.26 0.00 0.50 0.00	5 6 4	4.00 0.00 0.00 0.00 0.00	2.57 0.00 0.00 0.00	- 1 - 1 -	0 +	0.183 0.112 1.000 0.374 1.000
Habitat Mea	ans		0.00	0.00		0.76	0.76	i	-			0.10	0.10		0.16	0.10		-			1.10	0.76		0.80	0.52		'	
Fisher's Stouffer'		Power Power				r-50% r-50%				0.235 0.138	Power Power	0.000 0.000			r-50% r-50%		P-val P-val		0.653 0.367	Power Power	0.015		Power Power			P-val P-val		0.280

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

			Poly	sipho	nia/P	terosipho	onia (A)	(a)				Morph	ologi	cal G	Group: C	rustose	Reds					Crusto	se Cox	ralline A	1gae (P)		
Site Pair	Myd		С	SE	N	0	SE	ÇV	D	P	N	С	SB	N	0	SE	CV	D	P	N	С	SE	Ŋ	0	SE	CV	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- -	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 1.67 0.00 0.00	0.00 1.67 0.00 0.00	6 6 6	0.00 0.42 0.00 0.00 0.00	0.00 0.42 0.00 0.00	- - -	+ 0 0	1.000 0.659 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 00.0 0.00 0.00	-	0 0 0	1.000 1.000 1.000 1.000 1.000
Habitat Mea	nş		0.00	0.00		0.00	0.00		0	0.732	Power	0.34	0.34	Powe	0.08 r-50%	0.08	P-val:	+ ae	0.652	Power	0.00	0.00		0.00 r-50%		P-va		0.732
Fisher's Stouffer'	s	Power Power				r-50% r-50%				0.500	Power				r-50%		P-valu		0.408	Power				r-50%				0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.42 0.00 0.00	0.00 0.42 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0 0 0	1.000 0.363 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mea	ກຮ		0.00	0.00		0.00	0.00)	0			0.08	0.08		0.00	0.00		+			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	s	Power				r-50% r-50%		P-val P-val		0.732 0.500	Power Power				r-50% r-50%		P-valı P-valı		0.536 0.315	Power Power				r-50% r-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3	4 5 4 5 6	0.00 5.00 0.00 0.50 0.00	0.00 3.26 0.00 0.50 0.00	5 5 6	4.00 0.00 0.00 0.00 0.00	2.57 0.00 0.00 0.00) -) -	0	0.183 0.112 1.000 0.374 1.000	4 5 4 5 6	0.00 1.00 0.00 0.00 0.00	0.00 0.61 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 + 0 0 0	1.000 0.178 1.000 1.000	4 5 4 5 6	0.00 0.50 0.00 0.00	0.00 0.50 0.00 0.00	5 5 6 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 0.374 1.000 1.000
Habitat Mea	ns		1.10	0.76		0.80	0.52	2	+			0.20	0.12		0.00	0.00		+			0.10	0.10		0.00	0.00		+	0 540
Fisher's Stouffer'	5	Power Power	0.012			er-50% er-50%		P-val P-val		0.280	Power Power	0.000			er-50% er-50%		P-val: P-val:		0.407	Power Power				r-50% r-50%				0.542

(a) Genera not separated.

Table C-5.334. Page 7. December 15, 1994

x At least one site pair p-value < 0.100 in opposite direction of 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. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. June 1991. Overstory removed July 1990. (Continued.)

			Rii	denbr	andia sp.	(P)		_				Peti	rocelis (P	·}											
Site Pair Mv	d N	С	SE	N	0	SE	CA D	P	N	c	SE	N	0	SE	CV D	P	N	¢	SB	N	0	SE	CV :	D	p
4825C/1424 1 453C/453 1 601C/601 1 598C/598 1 1522C/1522 1	6 6 6	0.00 1.67 0.00 0.00	0.00 1.67 0.00 0.00 0.00	6 6 6	0.00 0.42 0.00 0.00 0.00	0.00 0.42 0.00 0.00 0.00	- + - 0 - 0	1.000 0.659 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 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	0										
Fisher's Stouffer's	Power Power				r-50% r-50%		P-value P-value		Power Power				er-50% er-50%		-value					Power					
601C/601 2 598C/598 2	6 6 6 6	0.00 0.42 0.00 0.00 0.00	0.00 0.42 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- o - o	1,000 0.363 1.000 1,000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0	1.000									
Habitat Means		0.08	0.08		0.00	0.00				0.00	0.00		0.00	0.00	0										
Fisher's Stouffer's	Power Power			Power			P-value P-value		Power Power				er-50% er-50%		-value		Power Power			Power Power					
601C/601 3 598C/598 3	4 5 4 5 6	0.00 0.50 0.00 0.00		5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0	1.000 0.374 1.000 1.000	4 5 4 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0										
Habitat Means		0.10	0.10		0.00	0.00				0.00	0.00		0.00	0.00	0										
Fisher's Stouffer's	Power Power			Power			P-value P-value		Power Power				er-50% er-50%	P	-value		Power Power			Power Power					

x. At least one site pair p-value < 0.100 in opposite direction of oversil tests. y. Firection of difference between habital means is different than direction of oversil tests. Z. Only one site pair.

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; 0 = control = oiled; P = probability value; dashes = insufficient data.

					Bala	nomorph	ıa.						Lo	ttiidae								M	ytilus				
Site Pair	Mvd	1 N	С	SE	N	٥	SE	CA D	P	N	c	SE	N	0	SE	CV I	D	P	N	С	SE	N	0	\$E	CV	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1 1 1 1 1	6 6 6 6	2.08 2.08 10.00 6.25 6.67	1.64 1.64 5.55 3.64 6.18	6 6 6	17.08 2.50 4.17 6.25 7.92	10.54 2.50 2.30 2.72 4.44	 - + - 0		6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.83 0.00	0.00 0.00 0.83 0.00 1.25	-	0 -	1,000 1,000 0,363 1,000 0,363
Habitat Mea	ns		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 Stouffer'	9	Power Power	0.096 0.089		Power	r-50% r-50%		P-value P-value		Power Power				r-50% r-50%		?-value ?-value		0.732 0.500	Power Power			Power Power			P-valu P-valu		0.359 0.345
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	6	12.08 28.75 17.08 15.00 4.17	12.08 15.00 11.19 5.99 2.01	6	25.42 3.33 8.75 16.67 0.50	12.01 1.54 3.21 7.12 0.50	- I - + 	0.154 0.991 0.800	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.42 0.00 0.00 0.42 0.00	0.42 0.00 0.00 0.42 0.00	- c	0	0.363 1.000 1.000 0.363 1.000	6 6 6 6	0.00 2.08 0.00 0.00 2.92	0.00 1.64 0.00 0.00 2.50	6 6	0.00 0.00 1.67 0.00 2.50	0.00 0.00 0.83 0.00 2.50	-	- 0	1.000 0.204 0.082 1.000 0.617
Habitat Mea	ns		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 Stouffer'	s	Power Power	0.287 0.319			r-50% r-50%		<i>P-value</i> P-value		<i>Power</i> Power				r-50% r-50%		?-vaiu∈ ?-valu∈		0.359 0.203	Power Power	0.007 0.001		Power Power			P-val: P-val:		0.461× 0.354
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	4 5 4 5 6	0.63 2.00 11.25 6.50 1.67	0.63 2.00 6.57 3.50 1.05	5 5 6	0.00 2.50 15.50 4.17 0.00	0.00 2.50 14.28 2.47 0.00	 	0.391 0.937 0.898 0.477 0.175	4 4 5 6	0.00 0.00 0.00 1.00 0.00	0.00 0.00 0.00 1.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 6	o -	1.000 1.000 1.000 0.374 1.000	4 5 4 5 6	0.00 0.00 0.63 0.00 0.00	0.00 0.00 0.63 0.00 0.00	5 5 6	0.00 0.50 0.00 0.00 6.25	0.00 0.50 0.00 0.00 6.25	- - ~	- - 0	1.000 0.374 0.391 1.000 0.391
Habitat Mea	ns		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 Stouffer'	9	Power Power	0.170 0.253			r-50% r-50%		P-value P-value		Power Power				r-50% r-50%		P-value P-value		0.542 0.245	Power Power			Power Power	-50% 50%				0.456 0.326

- \times Ar least one site pair p-value < 0.100 in opposite direction of overall tests. y Direction of difference between habitas means is different that direction of overall tests. Y Only one site pair.

Table 0-5,335. Page 1. December 15, 1994

				2	Mucell	a lamel	loga								Lit	torinidae							M	ollusca				
Site Pair	Mvd	N	С	SE	N	0	SE		CV :	p	P	N	c	SE	Ŋ	0	SE	CV D	P	N	С	SE	N	0	SE	CV I		P
4825C/1424 453C/453 601C/601 598C/598 1322C/1522	1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0 0 0	.00	-	0 1 0 1	.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6	0.00 0.42 0.00 0.00	0.00 0.42 0.00 0.00	- 0 0 - 0	1.00	6) 6) 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 6 - 6 - 6	1.	000 000 000 000 000
Habitat Mear	ns		0.00	0.00		0.00	0	.00		0			0.00	0.00		0.08	0.08	-			0.00	0.00		0.00	0.00	C	•	
Fisher's Stouffer's	s	Power Power				r-50% r-50%			-valu		.732	Power Power				≝-50% ≝-50%		P-value P-value						±-50% ±-50%		-value -value		732 500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2	6 6 6 6	2.92 0.00 0.00 0.00 0.00	2.45 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0	.00 .00 .00 .00	-	o 1 o 1 o 1	.000 .000 .000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0 - 0	1.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c	1.	000 000 000 000 000
Habitat Mear	ns		0.58	0.50		0.00	0	.00		+			0.00	0.00		0.00	0.00	0			0.00	0.00		0.00	0.00	(,	
Fisher's Stouffer's		Power Power	0.000		Powe:		0.000		-valu		.445 .433	Power Power				r-50% r-50%		P-value P-value						r-50% r-50%		-value -value		732 500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3	4 5 4 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0	.00 .00 .00 .00		0 1 0 1	.000 .000 .000 .000	4 5 4 5 6	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 - 0 - 0	1.00	5 1 4 1 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0	1.	000 000 000 000 000
Rabitat Mear	ns		0.00	0.00		0.00	0	.00		0			0.00	0.00		0.00	0.00	0			0.00	0.00		0.00	0.00	d	>	
Fisher's Stouffer's	s	Power Power	===			r-50% r-50%			-valu -valu			Power Power				r-50% r-50%		P-value P-value						r-50% r-50%		-value		

x At least one site pair p-value < 0.100 in opposite direction of 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. 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; r = control > oiled; r = control = oiled; P = probability value; dashes = insufficient data.

					Rock					_			Oi	led Rock									Sand				
Sit Par Mvd	N	С	8E	N	0	SE	CV	Þ	P	N	С	SE	N	0	SE	CA I		P	N	c	88	N	0	SE	CV I)	P
48250/14 ² 4 1 4530/453 1 6010/601 1 5980/598 1 15220/15 ² 2 1	6 6	83.75 58.75 90.00 90.83 70.00	7.27 14.79 5.55 6.38 10.97	6 6 6	82.92 86.67 94.58 92.92 69.58	10.54 8.56 3.06 3.06 12.57	-	-	0.807 0.121 0.654 0.946 0.920	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0) 1) 1	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 6	1 1	.000 .000 .000 .000
Habitat leans		78.68	9.02		85.34	7.58		-			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00	()	
	ower	0.357		Power Power			P-val P-val		0.312 0.178	Power Power				r-50% r-50%		P-value P-value		0.732 0.500	Power Power			Powe:	-50% -50%		-value -value		
4825C/14 ²⁴ 2 453C/453 2 601C/601 2 598C/598 2 1522C/15 ²² 2	6 6	46.67 30.00 70.00 79.58 57.92	17.99 12.50 15.04 7.34 14.77	6 6	37.92 72.08 75.83 63.75 27.50	13.22 14.29 10.03 10.12 17.01	-	- - +	0.656 0.058 0.977 0.235 0.193	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c) 1) 1	1.000 1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 6	0 1	.000 .000 .000 .000
Habitat Means	!	56.84	13.52		55.42	12,92		+			0.00	0.00		0.00	0.00	()			0.00	0.00		0.00	0.00	()	
	ower	0.101		Power Power			P-val P-val		0.248x 0.405	Power Power				r-50% r-50%		P-value P-value		0.7 32 0.500	Power Power			Power Power	-50% -50%		-value -value		
4825C/1424 3 453C/453 3 601C/6C1 3 598C/598 3 1522C/1522 3	5 4 5	18.75 11.50 66.87 33.00 34.58	7.94 9.07 9.21 14.48 12.98	5 5 6	30.00 82.50 17.50 40.00 2.50	19.70 10.90 16.26 17.26 2.50	-	-	0.827 0.002 0.035 0.678 0.031	4 5 4 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0	o 1	1.000 1.000 1.000 1.000	4 5 4 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- (1	.000 .000 .000 .000
Hibbitat Seans		32.96	10.74		34.50	13,34		-			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00	()	
	ower	0.001		Power Power					0.053x 0.140	Power Power				≃-50% r-50%		P-value P-value		0.732 0.500	Power Power	===		Power			-value -value		

M. 1-am; no site pair p value < 0.100 in apposite direction of overall tests.</p>
Y. Electize of difference between habitat pears is different than direction of overall tests.
To By one site pair.

Table C 5.536, Page 1, December 15, 1994

					Shel	l Fragme	nte								Water							Zo	stera	/Phyllosp	adix			
Site Pai r	Mvd	1 N	С	SE	N	0	SE	cv	D	P	N	С	SE	N	0	SE	CV I	2	P	N	С	SE	N	0	SE	C.V	, D	P
4625C/1424 453C/453 601C/601 598C/558 1522C/1522	1 1 1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0 - 0 -	0 0 0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0	5	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0	1.000 1.000 1.000 1.000
Hekitat Mea	r.s		0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00	¢	>			0.00	0.00		0.00	0.00		0	
Fisher's Stouifer'	s	Power Power				r-50% r-50%				0.732	Power Power				r-50% r-50%		P-value P-value			Power Power				r-50% r-50%				0.732 0.500
4825C/1424 453C/453 6CLC/6(1 558C/558 1522C/1522	2 2 2	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0	10 - 10 -	0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c	9	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00	•	0.00	0.0	0	0			0.00	0.00		0.00	0.00	c	0			0.00	0.00		0.00	0.00		0	
Fisher's Stouifer'	s	Power Power				r-50% r-50%		P-va P-va		0.732 0.500	Power Power				r-50% r-50%		P-value P-value		0.732 0.500	Power Power				r-50% r-50%				0.732 0.500
4835C/1424 453C/453 603C/603 538C/538 1833C/1522	3 3 3	4 5 4 5 6	11.25 0.00 0.00 0.00 21.25	11.25 0.00 0.00 0.00 13.47	5 5 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0	0 - 0 -	0	0.391 1.000 1.000 1.000 0.175	4 5 4 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c	5	1.000 1.000 1.000 1.000	4 5 4 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		- 0	1.000 1.000 1.000 1.000
Fab:tat Mea	ns		6.52	4.96		0.00	0.0	0	+			0.00	0.00		0.00	0.00	c	5			0.00	0.00		0.00	0.00		0	
F:Sner's Stourier'	5	Power Power	0.01			r-50% r-50%	0.028			0.266	Power Power				r-50% r-50%		P-value P-value		0.732 0.500	Power Power				≃~50% ≃~50%				0.732 0.500

 $[\]mathbf{x}$ \mathbf{x} . Deaft one site pair p-value < 0,100 in opposite direction of overall tests. \mathbf{y} in each of difference between habitat means is different than direction of overall tests. \mathbf{c} by \mathbf{y} one site pair.

Table C-5,336. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. June 1991. Overstory removed July 1990. (Continued.)

					Sand	and Mu	<u>.α</u>						Tota	1 Substr	ate												
Site Pair M	vđ	N	С	SE	N	٥	SE	ÇV D	P	N	С	SE	N	0	ge	cv	D	P	н	С	SE .	N	0	ge		V D	P
453C/453 1 601C/601 1 598C/598 1	1 1 1 1 1	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- o - o	1.000	6 6 6 6	83.75 58.75 90.00 90.83 70.00	7.27 14.79 5.55 6.38 10.97	6 6	82.92 86.67 94.58 92.92 69.58	10.54 8.56 3.06 3.06 12.57	-	<u>-</u> -	0.807 0.121 0.654 0.946 0.920						•			
Habitat Means			0.00	0.00		0.00	0.00	0			78.68	9.02		85.34	7.58		_										
Fisher's Stouffer's		Power Power			Power				0.732 0.500	Power Power	0.342 0.255			er-50% er-50%	1.000	P-valu P-valu			Power Power			Power Power				value value	
453C/453 2 601C/601 2 598C/598 2	2 2 2 2	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- o - o	1,000	6 6 6 6	46.67 30.00 70.00 79.58 57.92	17.99 12.50 15.04 7.34 14.77	6 6	37.92 72.08 75.83 63.75 27.50	13.22 14.29 10.03 10.12 17.01	-	-	0.656 0.058 0.977 0.235 0.193									
Habitat Means			0.00	0.00		0.00	0.00	0			56.84	13.52		55,42	12.92												
Fisher's Stouffer's		Power Power			Power			P-value P-value		Power Power	0.106 0.077			er-50% er-50%	0.784	P-valu P-valu		0.248x 0.405	Power Power			Power Power				alue	
453C/453 3 601C/601 3 598C/598 3	3 3 3 3 3	5 4 5	0.00 0.00 0.00 0.00	11.25 0.00 0.00 0.00 13.47	5 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0	1.000	5 4 5	30.00 11.50 66.87 33.00 55.83	14.11 9.07 9.21 14.48 16.99	5	30.00 82.50 17.50 40.00 2.50	19.70 10.90 16.26 17.26 2.50	- - -	+	0.923 0.002 0.035 0.678 0.018									
Habitat Means			6.52	4.96		0.00	0.00	-			39.44	12.78		34.50	13.34		_										
Fisher's Stouffer's		ower ower	0.020 0.013		Power Power		0.029			Power Power	0.001			er-50% er-50%	0.867 f			0.062xy 0.160	Power Power			Power-			P~v	alue	

x. At least one site pair p-walue < 0.100 in opposite direction of overall tests. y Premotion of difference setween habital means is different than direction of overall tests. < Only one site pair.

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	Dive	rsity In	dex (a)						Alga	l Tax	a Richne	вв (b)							Tot	al Algae	1			
Site Pair	Mvd	1 N	c	SE	N	0	SE	cv	Ď	P	N	c	SE	N	0	SE	cv	D	P	N	С	SE	N	٥	82	CA :		P
506C/506 1598C/1598 846C/846 1650C/1650	1	5 5 6	0.05 0.00 0.00 0.00	0.05 0.00 0.00 0.00	5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	0.374 1.000 1.000 1.000	5 5 6 6	0.40 0.20 0.17 0.00	0.40 0.20 0.17 0.00	6	0.25 0.00 0.00 0.00	0.25 0.00 0.00 0.00	-		0.775 0.374 0.363 1.000	5 6 6	4.50 8.50 11.25 0.00	4.50 8.50 11.25 0.00	5 6 2	1.88 0.00 0.00 0.00	1.88 0.00 0.00 0.00	-	+	0.824 0.374 0.363 1.000
Habitat Mea Fisher's		Power	0.01	0.01	Powe:	0.00 c-50% c-50%				0.483	Power Power	0.19	0.19		0.06 r-50% r-50%		P-va		0.262	Power Power	6.08		Powe	0,48 r-50% r-50%		P-valu P-valu		
\$touffer' 506C/506 1598C/1598 846C/846 1650C/1650	2 2 2	Power 4 5 4 5	0.00 0.06 0.08 0.00	0.00 0.06 0.08 0.00	4 5 5	0.12 0.00 0.00	0.07 0.00 0.00	-	-+	0.182 0.374 0.391	4 5 4 5	0.50 0.60 0.75 0.40	0.29 0.40 0.48 0.24	4 5 5	1.25 0.00 0.20	0.48 0.00 0.20	-	-	0.228 0.208 0.287	4 5 4 5	6.88 15.00 6.88 2.00	4.25 13.21 4.72 1.46	5 5 0	12.50 0.00 1.00	7.77 0.00 1.00	- - -	-	0.558 0.255 0.251
Habitat Mea Fisher's Stouffer'		Power Power	0.03 0.013 0.007	0.03	Powe	0.04 r-50% r-50%				0.339 y 0.138	Power Power	0.56	0.35		0.48 r-50% r-50%		P-va		0.194 0.066	Power Power	7.70 0.11		Powe	4.50 r-50% r-50%		P-valu P-valu		
506C/506 1598C/1598 846C/846 1650C/1650	3 3 3	4 3 2 6	0.39 0.13 0.00 0.13	0.11 0.07 0.00 0.07	1 2	0.22 0.00 0.00	0.15 0.00 0.00	-		0.407 0.187 1.000	4 3 2 6	3.75 1.33 0.50 1.33	1,03 0.67 0.50 0.49	4	2.50 0.25 0.00	0.96 0.25 0.00	-	+	0.409 0.147 0.500	4 3 2 6	96.88 26.67 23.75 26.67	3.13 20.73 23.75 14.71	4 2 0	40.63 19.37 0.00	21.10 19.37 0.00	-	1	0.027 0.681 0.500
Habitat Mea Fisher's Stouffer'		Power Power	0.16 0.237 0.271	0.06	Powe	0.07 r-50% r-50%		P-val		0.157 0.102	Power Power	1.73	0.67		0.92 r-50% r-50%		P-va		0.083	Power Power	43.52 0.32		Powe	20.00 er-50% er-50%		P-valu P-valu		0.035 0.275

(a) Modified Shannon index.(b) Taxa richmans calculations are explained in the methods.

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

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

	8 1 5 0.50 0.61 4 0.63 0.63 8 1 5 0.50 0.50 5 1.00 0.61 1 6 0.00 0.00 6 0.00 0.00 - 0								Rock								Pere	nnials (P)									
Site Pair	Mvd	N	С					CV	D 1	, - -	N	С	SE	N	0	SE	CV I	D	P	N	c	SE	N	0	82	(CV D	P
506C/506 1598C/1598 846C/846 1650C/1650	1	5 6	0.50	0.50	5 6	1.00	0.62	-	0 1.0	645 000	5 5 6	92.00 91.00 81.67 100.00	4.90 8.39 11.76 0.00	5 6	97.50 99.00 100.00 100.00	0.61 0.00 0.00	_	-	0.219 0.463 0.139 1.000	5 5 6	3.50 8.50 11.25 0.00	3.50 8.50 11.25 0.00	5 6 2	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0	- + - + - 0	0.374 0.374 0.363 1.000
Habitat Moa	ns		1.00	0.28		0.40	0.30		•			91.18	6.28		99.13	0.60		-			5.83	5.83		0.00 r-50%	0.00		+	0.175
Fisher's Stouffer'		Power Power	0.175		Power	c~50% c-50%	0.572	P-valu P-valu			ower ower	0.565			er-50% er-50%		P-valu P-valu		0.080	Sower				r-50%				0.140
506C/506 1598C/1598 846C/846 1650C/1650	2	4 5 4 5	6.25 4.50 8.75 3.00	2.39 1.22 3.89 1.84	5 5	5.63 6.00 1.00	3.29 2.03 0.61		+ 0.5 - 0.7 + 0.8	734	4 5 4 5	86.88 80.50 61.25 95.00	4.61 12.16 20.45 3.16	5 5	81.88 94.00 98.00	5.90 2.03 1.46	- - -	-	0.497 0.256 0.047	4 5 4 5	4.37 10.50 4.38 2.00	4.37 8.75 2.58 1.46	5 5	9.38 0.00 1.00	8.56 0.00 1.00	0		0.643 0.231 0.292
Habitat Mea	ກຮ		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 Stouffer'		Power Power	0.345			r-50% r-50%		P-valu			Power				er-50% er-50%		P-valu P-valu		0.058 0.049	Power Power	0.09			r-50% r-50%				0.177
506C/506 1598C/1598 846C/846 1650C/1650	3	4 3 2 6	0.00 0.83 5.00 6.67	0.00 0.83 5.00 3.46	4 2	3.13 11.25 2.50	2.37 4.15 2.50	-	- 0.1 - 0.1 + 0.1	117	4 3 2 6	3.13 71.67 71.25 65.83	3.13 21.03 18.75 15.02	4 2	56.25 69.38 97.50	19.70 15.72 2.50	-	+	0.025 0.842 0.225	4 3 2 6	28.13 4.17 23.75 4.58	11.24 3.00 23.75 2.69	2	20.63 19.37 0.00	11,24 19.37 0.00	7 D -	- +	0,531 0,753 0,500
Habitat Mea	ns		3,13	2.33		5.63	3.03		-			52.97	14.48		74.40	12.63		-			15.17	10.18		13.33	10.20			0 202
Fisher's	2	Power Power				r-50% r-50%		P-valu P-valu			Power	0.36			er-50% er-50%		P-valu P-valu		0.027	Power Power	0.09 0.12			r-50% r-50%	0.261 0.331		value valuo	0.383

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

Table C-5.337. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Coarse Textured. May 1991. Overstory removed June 1990. (Continued.)

				Annu	als (A)								Ephe	merals (A	E)												
										м	r	gR	N	C	SE	CA D		P	N	Ç	SE	N	0	SE	C	CA D	Þ
506C/506 1 1598C/1598 1 846C/846 1 1650C/1650 1	5 5 6	1.00 0.00 0.00 0.00	1.00 0.00 0.00 0.00	5 6	0.00 00.00 00.00	0.0 0.0 0.0) –) –	0	1.000	5 6 6	0.00 0.00 0.00	0.00 0.00 0.00	5 6 2	0.00	0.00	- o - o	1.	.000									
abitat Means		0.25	0.25		0.48	0.4		-			0.00	0.00		0.00	0.00	o P-value		.698	Power			Power	-50%		P-1	value	
Fisher's Stouffer's	Power Power			Power			P-va P-va	lue lue	0.639 0.499	0				er-50% er-50%		P-value		.500	Power			Power			P-1	value	
506C/506 2 1598C/1598 2 846C/846 2	4 5	2.50 4.50 2.50 0.00	2.50 4.50 2.50 0.00	5 5	3.13 0.00 0.00	1,8 0.0 0.0	0 – 0 –	+	0.692 0.374 0.391	4 5 4 5	0.00 4.50 0.00 0.00	0.00 4.50 0.00 0.00	5 5	0.00	0.00 0.00 0.00	- 0	٥	.000 .374 .000									
abitat Means	_	2.38	2.38		1.03	0.6	3	+			1.13	1.13		0.00	0.00							Power			ъ.	value	
Fisher's	Power	0.038		Power	-50% -50%		P-va P-va	lue lue	0.280	0				er-50% er-50%		P-value P-value			Power Power			Power				value	
846C/846 3	4 3 2 6	68.75 22.50 0.00	13.09 17.74 0.00 13.20	4 4 2	20.00	12.7 0.0 0.0	0 - 0 -	+	0.037 0.257 1.000	4 3 2 6	66.25 22.50 0.00 21.25	13.33 17.74 0.00 13.35	2	12.50 0.00 0.00	10.90 0.00 0.00	- 6	0 -	.019 .257 .000									
Habitat Mears	-		11.00		6.67	4.2	7	+			27.53	11.10		4.17	3.63				D			Power	-50%		- P-	value	
Fisher's Stouffer's	Power Power	0.411			r-50% r-50%	0.225	P-va P-va	lue lue	0.036 0.136	0	0.374			er-50% er-50%	0.258	P-value P-value	e 0	1.022	Power Power			Power				value	

X At least one site pair p-value < 0.100 in apposite direction of overall tests. Direction of difference between babitat means is different chan direction of overall tests. Z Only one site pair.

Table C-5.338. Algai 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.

				T	otal	Chloropi						Mor	phologi	cal	Group: E	laded Gr	eens					Blac	ied Gr	ens (A	B) (a)			
Site Pair X	Kvđ	N	С	ge	N	0					N	C	SE	N	0	SE	C₫	D	P	N	c	SE	и	0	SE	С	d v	P
506C/506 1598C/1598 846C/846 1650C/1650	1 1 1	5 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5	0.00 0.00 0.00 0.00	0.00) -	. 0	1.000 1.000 1.000 1.000	5 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	5 5 6 6	0.00 0.00 0.00 0.00	0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	1	- o - o	1.000 1.000 1.000 1.000
Habitat Means		Power	0.00	0.00	Power	0.00 c-50%	0.00		o	0.698	ower	0.00	0.00	Pow	0.00 er-50%		-valu		0.698	Powe:	0.00		Power			P-v		0.698
Stouffer's		Power				c-50%				0.500	ower			Pow	er-50%		P-valu		0.500	Powe≃			Power					0.500
506C/506 1598C/1598 846C/846 1650C/1650	2 2 2 2	4 5 4	0.00 4.50 0.00 0.00	0.00 4.50 0.00 0.00	5 5	0.00 0.00 0.00	0.00) -	+	1.000 0.374 1.000	4 5 4 5	0.00 4.50 0.00 0.00	0.00 4.50 0.00 0.00	5 5	0.00 0.00 0.00	0.00	-	ī	1.000 0.374 1.000	4 5 4 5	0.00 4.50 0.00 0.00	0.00 4.50 0.00 0.00	5 5	0.00	0.00 0.00 0.00)	- 0	1.000 0.374 1.000
Habitat Means		~	1.13	1.13		0.00	0.00	9	+			1.13	1,13		0.00	0.00		+			1.13	1.13		0.00	0.00	ı	-	
Fisher's Stouffer's		Power Power				r-50% r-50%			alue alue		ower				er-50% er-50%		P-valu P-valu		0.409 0.197	Power Power			Power Power					0.409 0.197
506C/506 1598C/1598 846C/846 1650C/1650	3 3 3	3	23.75 19.17 0.00 20.00	17.72 19.17 0.00 13.66	4 2	2.50 0.00 0.00	0.00	0 - 0 -	0	0.342 0.423 1.000	4 3 2 6	13.75 0.00 0.00 20.00	13.75 0.00 0.00 13.66	4	1.25 0.00 0.00	1.25 0.00 0.00	-		0.507 1.000 1.000	4 3 2 6	13.75 0.00 0.00 20.00	13.75 0.00 0.00 13.66	2 0	1.25 0.00 0.00	1.25 0.00 0.00) -	- o -	1.000
Habitat Means	s		15.75	12.65		0.83	0.4	7	+			8.45	6.88		0.43	0.43		+			8.45	6.88		0.43	0.43		. +	
Fisher's		Power	0.083 n 101			r-50% r-50%	0 038 0 049		alue alue		ower	0.003			ver-50% ver-50%		P-valu P-valu		0.480 0.499	Power Power	0.002		Power Power		0.002			0.480

(a) Kornmannia, Monostruma, Ilva 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. 2 Only one site pair.

Chaetomorpha/Rhizoclonium (A) (a) Fine Filamentous Greens Acrosiphonia sp. (A) Morphological Group: 0 CV D P N 0 gg CV D P C C RR CV D P Site Pair Mvd N С .000 0.00 1,000 0.00 0.00 1.000 0.00 0.00 0.00 0.00 0 0.00 0.00 4 0 506C/506 0.00 0.00 4 0.00 0 1.000 - o 1.000 - O 0.00 0.00 1.000 0.00 0.00 0.00 0.00 0.00 0.00 1598C/1598 0.00 0.00 0.00 0.00 - 0 1.000 - 0 1.000 0.00 0.00 0.00 0.00 0 0.00 0.00 Б 0.00 0.00 - o 1.000 0.00 0.00 0.00 0.00 6 846C/846 6 - o 1.000 - 0 1.000 0.00 0.00 0.00 0.00 0.00 6 0.00 0.00 0.00 0.00 0.00 - 0 1.000 0.00 0.00 2 1650C/1650 0.00 0.00 0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 Habitat Means 0.00 --- P-value 0.698 Power-50% --- P-value 0.698 Power-50% Power Power-50% --- P-value 0.698 Power Fisher's Power ---0.500 Power-50% --- P-value 0.500 Power-50% P-value Power Power-50% --- P-value 0.500 Power ---Stouffer's Power ---1.000 0.00 0.00 - 0 1.000 0.00 0.00 0.00 - Q 0.00 0.00 0.00 4 0.00 0.00 0 1.000 506C/506 0.00 0.00 4 1.000 0.00 0.00 0.00 - 0 1.000 0 1.000 0.00 0.00 0.00 0 0.00 0.00 0.00 0.00 -0.00 5 1598C/1598 2 5 0.00 1.000 0.00 0.00 0.00 - 0 1.000 0.00 0.00 0 4 0.00 0.00 0.00 5 0.00 0.00 o 1.000 0.00 0.00 846C/846 4 0.00 0.00 0.00 0.00 D 5 0.00 1650C/1650 2 - 5 0.00 0.00 0.00 0.00 0.00 0.00 0.00 O 0.00 0 0.00 0.00 0.00 0.00 0.00 0 Habitat Means --- P-value 0.655 Power-50% --- P-value 0.655 --- P-value 0.655 Power-50% Power Power-50% Power Power Fisher's --- P-value 0.500 Power-50% --- P-value 0.500 POWER ---Power-50% --- P-value 0.500 Power Stouffer's ---Power-50% Power 1.000 0.00 - 0 1.000 0.00 0.00 4 0.00 0.00 - 0 1.25 1.25 0.288 0.00 0.00 4 0.00 8.75 5.05 4 506C/506 0.00 1.000 0.00 0.00 0.00 0.00 - 0 1.000 - 0 - + 0,423 0.00 0.00 4 0.00 4 0.00 1598C/1598 3 19.17 19,17 4 0.000.00 - 0 1.000 2 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 1.000 0.00 - o 1.000 0.00 846C/846 0.00 0.00 2 6 0.00 0.00 0 0.00 0.00 0 1650C/1650 3 0.00 0.00 Û 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0.00 0.43 7.00 6.07 0.43 Habitat Means Power --- P-value 0.655 --- P-value 0.655 Power-50% 0.075 P-value Power-50% 0.097 Power-50% 0.212 Power ___ Fisher's Power --- P-value 0,500 Power ___ Power-50% --- P-value 0.500 Power-50% 0 145 Power-50% 0.063 P-value 0.219 Power Stouffer's Power

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⁽a) Genera not separated.

al Genera not separated. At least one site pair p value < 0.100 in opposite direction of overall tests. Direction of difference between nabitat means is different than direction of overall tests.

y Direction or site z Dnly one site pair.

Table C-5.338. Algal Percent Cover. Chlorophyta. Prince William Sound. Coarse Textured. May 1991. Overstory removed June 1990. (Continued.)

				C1	odqoba.	ra sp.	(AE)						σ	loth:	гіж вр. (2	AE)				Мо	rpholog:	ical Gr	oup:	Tubular	and Saco	cate	Gree	ne
Site Pair	Mvd	N	с	se	N	0	SE	CΛ	D	P	N	С	SE	N	0	SE	CV 3	D	P	N	c	SE	N	0	SE	CV	מ	P
506C/506 1598C/1598 846C/846 1650C/1650	1 1 1 1	5 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	5 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 6	Ó	1.000 1.000 1.000 1.000	5 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 2	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	1	0	1,000 1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	•	o			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	5	Power Power			Power-			P-val P-val		0.698 0.503	Power Power				er-50% er-50%		P-valu P-valu		0.698 0.500	Power Power				r-50% r-50%				0.69B 0.500
506C/506 1598C/1598 846C/846 1650C/1650	2 2 2 2	4 5 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5	0.00 0.00 0.00	0.00 0.00 0.00	-		1.000 1.000 1.000	4 5 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 5	0.00 0.00 0.00	0.00 0.00 0.00	- 1	0	1.000 1.000 1.000	4 5 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5	0.00 0.00 0.00	0.00 0.00 0.00	- - -	0	1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0,00	1	0.00	0.00		0	
Fisher's Stouffer'		Power Power			Power-			P-val P-val		0.655 0.500	Power Power				er-50% er-50%		P-valu P-valu		0.655 0.500	Power Power				r-50% r-50%		P-va P-va		0.655 0.500
506C/506 1598C/1598 846C/846 1650C/1650	3 3 3	4 3 2 6	8.75 19.17 0.00 0.00	5.05 19.17 0.00 0.00	4 2	1.25 0.00 0.00	1.25 0.00 0.00	_		0.288 0.423 1.000	4 3 2 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	2	0.00 0.00 0.00	0.00 0.00 0.00	-		1.000 1.000 1.000	4 3 2 6	1.25 0.00 0.00 0.00	0.72 0.00 0.00 0.00	4 1 2 1 0	0.00 0.00 0.00	0.00 0.00 0.00	-	О	0.182 1.000 1.000
Habitat Mea	ns		7.00	6.07		0.43	0.43		+			0.00	0.00		0.00	0.00		0			0.33	0.17		0.00	0.00		-	
Fisher's Stouffer'	s	Power Power	0.096 0.151		Power-			P-val P-val		0.212 0.219	Power Power				er-50% er-50%		P-valu P-valu		0.655 0.500	Power Power	0.00			r-50% r-50%				0.271

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

2 0/127 0/12 3712			B 1.	idingi	a/Ent	eromorpi	ha (AE)	(a)																			
Site Pair	Mvd	N	***	SE	N	0	SE		ם	P	N	c	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	cv	D P
506C/506 1598C/1598 846C/846 1650C/1650	1 1 1 1	5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) –) –	o 1 o 1 o 1 o 1	.000													•				
Habitat Mea	ns		0.00	0.00		0.00	0.00)	0																		
Fisher's Stouffer'		Power Power			Power	-50% -50%		P-valı P-valı			Power Power			Power- Power-			P-val P-val			Power Power			Power:			P-valu P-valu	
506C/506 1598C/1598 846C/846 1650C/1650	2 2 2 2	5 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 5	0.00 0.00 0.00	0.00 0.00 0.00) -	o 1 o 1 o 1																		
Habitat Mea	ns		0.00	0.00		0.00	0.00)	0																		
Fisher's Stouffer'		Power Power				5-50 % 5-50 %		P-val			Power Power		 - -	Power Power						Power Power			Power Power				
506C/506 1598C/1598 846C/846 1650C/1650	3 3 3	3 2	1.25 0.00 0.00 0.00	0.72 0.00 0.00 0.00	4 2	0.00 0.00 0.00	0.00 0.00 0.00) -) -	+ 0 o 1 o 1	.000																	
Habitat Mea	ıns		0.33	0.17		0.00	0.00)	+																		
Fisher's Stouffer'		Power Power	0.000			r-50 % r-50 %	0.045 0.000				Power Power			Power-			P-va P-va			Power Power			Power Power			P-valu P-valu	

 $[\]times$ At least one site pair ρ -value < 0.100 in opposite direction of overall tests. y Direction of difference between habital means is different than direction of overall tests. To Only one site pair.

Table C-5.339. Algal Percent Cover. Phasophyta. 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; CV coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

				7	Fotal	Phaeoph	yta					Morg	hologi	cal (Group: E	laded B	OWILE					F	cus (cottonii	(P)			
Site Pair	Mvd		c	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	cv	D	P	N	С	SE	N	0	SE	C	V D	Р
506C/506 1598C/1598 846C/846 1650C/1650	1 1 1	5 5 6	3.50 8.50 11.25 0.00	3.50 8.50 11.25 0.00	5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	+	0.374 0.374 0.363 1.000	5 5 6 6	3.50 8.50 11.25 0.00	3.50 8.50 11.25 0.00	5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	-	0.374 0.374 0.363 1.000	5 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 2	0.00 0.00 0.00 0.00	0.00 0.00 0.00) · }	- 0	1.000 1.000 1.000 1.000
Habitat Mean Fisher's Stouffer's		Power Power			Power Power			P-val P-val		0.175 0.140	Power Power	5.83			0.00 er-50% er-50%		P-val		0.175 0.140	Power Power	0.00		Powe	0.00 r-50% r-50%		2-v		0.698 0.500
506C/506 1598C/1598 846C/846 1650C/1650	2 2 2	4 5 4 5	6.88 10.50 4.38 2.00	4.25 8.75 2.58 1.46	4 5 5	2.50 0.00 1.00	1.77 0.00 1.00	-		0.564 0.231 0.292	4 5 4 5	4.37 10.50 4.38 2.00	4.37 8.75 2.58 1.46	5 5	2.50 0.00 1.00	1.77 0.00 1.00	_		0.993 0.231 0.292	4 5 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5	0.00 0.00 0.00	0.00 0.00 0.00) -	- o	1.000 1.000 1.000
Habitat Mea Fisher's Stouffer'		Power Power			Power	1.17 r-50% r-50%	0.93	P-val	ue ue	0.09B 0.074	Power Power	5.33 0.194		Powe	1.17 er-50% er-50%		P-va		0.144	Power Power	0.00			0.00 r-50% r-50%		P-v		0.655 0.500
506C/506 1598C/1598 846C/846 1650C/1650	3	4 3 2	71.88 3.33 23.75 3.75	18.91 3.33 23.75 2.39	4 4 2	27.50 19.37 0.00	15.38 19.37 0.00	-		0.093 0.645 0.500	4 3 2 6	28.13 0.00 23.75 1.67	11.24 0.00 23.75 0.83	4 2 0	16.25 19.37 0.00	9.82 19.37 0.00	-	+ + +	0.379 0.391 0.500	4 3 2 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	4 2 0	0.00	0.00 0.00) -	- o - o	1.000 1.000 1.000
Habitat Mea Fisher's Stouffer'		Power Power				15.63 r-50% r-50%	11.60 0.246 0.357	P-val		0.138 0.595	Power Power	0.053 0.030		Powe	11.90 er-50% er-50%		P-va		0.366 0.734	Power Power	0.00		Powe	0.00 r-50% r-50%		P-v		0.655 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.
y Only one site pair.

Table C 5.239, Page 1. December 15, 1994

				Tota	1 Fuc	us gardn	eri (P)					Adı	ult Fu	cus g	ardneri	(P) (> 2	cm)				Juv€	nile F	исив	gardneri	(P) (<=	2cm)		
Site Pair	Mvd	м	С	SE	N	0	SE	cv	Þ	P	N	c	SE	N	0	88	c	מ ע	P	N	С	SE	Ŋ	0	SE	CV	D	P
506C/506 1598C/1598 846C/846 1650C/1650	î 1	5 5 6 6	3.50 8.50 11.25 0.00	3.50 8.50 11.25 0.00	5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00		+	0.374 0.374 0.363 1.000	5 5 6	2.50 7.50 11.25 0.00	2.50 7.50 11.25 0.00	5 6	0.00 0.00 0.00	0.00 00.0 00.0	l .	- + - + - +	0.374 0.374 0.363 1.000	5	1.00 1.00 0.00 0.00	1.00 1.00 0.00 0.00	5 6	0.00 0.00 0.00	0.00 0.00 0.00 0.00		0	0.374 0.374 1.000 1.000
Habitat Mea		Ü	5.83	5.83		0.00	0.00		-			5.33	5.33		0.00	0.00		+			0.50	0.50		0.00	0.00	1	+	0.203
Fisher's Stouffer'		Power				r-50% r-50%				0.175	Power Power				r-50% r-50%			alue alue	0.175					r-50% r-50%				0.303
506C/506 1598C/1598 846C/846 1650C/1650	2 2 2	4 5 4 5	4.37 10.50 4.38 2.00	4.37 8.75 2.58 1.46	5 5	2.50 0.00 1.00	1.77 0.00 1.00	-	+ + + +	0.993 0.231 0.292	4 5 4 5	4.37 10.50 4.38 2.00	4.37 8.75 2.58 1.46	5 5	1.25 0.00 1.00	1.25)	 - 1 - +	0.687 0.231 0.292	4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5	1.25 0.00 0.00	0.72 0.00 0.00	-	0	0.182 1.000 1.000
Habitat Mea		,	5.33	4.33		1.17	0.93		+			5.33	4.33		0.77	0.7	,	+			0.00	0.00		0.43	0.23		-	
Fisher's Stouffer'		Power				r-50% r-50%				0.144	Power Power	0.221			r-50% r-50%			alue alue			0.000			r-50% r-50%			lue	0.271
506C/506 1598C/1598 846C/846 1650C/1650	3 3 3	4 3 2 6	28.13 0.00 23.75 1.67	11.24 0.00 23.75 0.83	4 2	16.25 19.37 0.00	9.82 19.37 0.00	-	+ - ,	0.379 0.391 0.500	4 3 2 6	27.50 0.00 23.75 1.67	10.94 0.00 23.75 0.83	4 2	15.63 19.37 0.00	9.20 19.31 0.00	7	- + - +		3 2	0.63 0.00 0.00 0.00	0.63 0.00 0.00 0.00	4 2 0	0.63 0.00 0.00	0.63 0.00 0.00	-	0	1.000
Habitat Mea	ns		13.40	8.95	,	11.90	9.73		-			13.25	8.89		11.67	9.5	7	+			0.15	0.15		0.20	0.20		0	
Fisher's Stouffer'		Power				r-50% r-50%	0.118	P-val P-val		0.366 0.734	Power Power	0.053			r-50% r-50%	0.138 0.129			0.359					r-50% r-50%				0.655 y 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-5.339. Algal Percent Cover. Phasophyta. Prince William Sound. Coarse Textured. May 1991. Overstory removed June 1990. (Continued.)

				Pu	cus S	tipes (P)	(a)				Mo	rphologic	al Gr	oup:	Coarse 1	Filament	ous Br	OWI	nė			Di	ctyos	iphon sp.	(A)				
Site Pair	Mvč	N	С	SE	N	0	82	CA	D	Þ	N	c	SE	N	٥	SE	CV I	D	P	N	c	SE	N	0	SE		CV I)	P
506C/506 1598C/1598 846C/846 1650C/1650	1 1 1	5 5 6 6	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- - - -	0	1.000 1.000 1.000 1.000	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- (0	1.000 1.000 1.000 1.000	5 6 6	0.00 0.00 0.00 0.00	0,00 0.00 0.00 0.00	5 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0	0	- 0 - 0 - 0	1	.000
Habitat Mea	ns		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	(0			0.00	0.00		0.00	0.0	0	(>	
Fisher's Stouffer'	s	Power Power				r-50% r-50%		-val -val		0.698 0.500	Power Power				r-50% r-50%		P-value P-value		0,698 0.500	Power Power				r-50% r-50%			-value -value		0.698 0.500
506C/506 1598C/1598 846C/846 1650C/1650	2	4 5 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	- - -	0	1.000 1.000 1.000	4 5 4 5	2.50 0.00 0.00 0.00	2.50 0.00 0.00 0.00	5 5	0.00 0.00 0.00	0.00 0.00 0.00	- e	0	0.391 1.000 1.000	4 5 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.0 0.0 0.0	00	- (c	1	1.000
Habitat Mea	ns		0.00	0.00		0.00	0.00		0			0.63	0.63		0.00	0.00		F			0.00	0.00	ì	0.00	0.0	0	0)	
Fisher's Stouffer'	\$	Power Power	-			r-50% r-50%		-val		0.655 0.500	Power Power				r-50% r-50%		P-value P-value		0.419 0.498	Power Power				r-50%			-value -value		
506C/506 1598C/1598 846C/846 1650C/1650	3	4 3 2 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 2	0.00 0.00 0.00	0.00 0.00 0.00	- - -		1.000 1.000 1.000	4 3 2 6	1.25 0.00 0.00 0.83	1.25 0.00 0.00 0.83	4 2	1.25 0.00 0.00	1,25 0,00 0.00	- 6	0	1.000 1.000 1.000	4 3 2 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	2	0.00 0.00 0.00		00	- (- (5 1	.000
Habitat Mea	ns		0.00	0.00		0.00	0.00		0			0.53	0.53		0.43	0.43	•	0			0.00	0.00)	0.00	0.0	00	(>	
Fisher's Stouffer'	e	Power Power				r-50% r-50%				0.655 0.500	Power Power				r-50% r-50%		P-value P-value		0.655 v 0.500	Power Power				er-50% er-50%			-value -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.</p>
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/8		cytosipho	n (A) (a)				Morpholog:	ical G	roup	: fine F	ilamento	ou s	Brown	78	_		F	ine Fi	lame	ntous Brow	ns (AE)	(b)				
Site Pair	Mvd	N	С	SE	N	0	SE	ĊΛ	D	P	N	c	SE	N	0	SE	C	ם עי	P	N		c	SE	Ŋ	0	SE	CV	D	P
506C/506 1598C/1598 846C/846 1650C/1650		5 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00		0	1.000 1.000 1.000 1.000	5 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		- o - o - o	1.00	0 5 0 6		0.00 0.00 0.00 0.00	0.0	0 5 0 6 0 2	0.00 0.00 0.00	0.00 0.00 0.00) -) -	0	1.000 1.000 1.000 1.000
Habitat Mea	ıns		0.00	0.00		0.00	0,00		0			0.00	0.00		0.00	0.00)	0				0.00	0.0	0	0.00	0.00		0	
Fisher's Stouffer'	5	Power Power			Power					0.698 0.500	Power Power				r-50% r-50%						wer				wer-50% wer-50%				0.698 0.500
506C/506 1598C/1598 846C/846 1650C/1650	2	4 5 4 5	2.50 0.00 0.00 0.00	2.50 0.00 0.00 0.00	5 5	0.00 0.00 0.00	0.00 0.00 0.00	-		0.391 1.000 1.000	4 5 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5	0.00 0.00 0.00	0.00 0.00 0.00)	- 0 - 0 - 0	1.00 1.00 1.00	0 5		0.00 0.00 0.00 0.00	0.0 0.0 0.0	0 5		0.00 0.00 0.00) -) - 	0	1.000 1.000 1.000
Habitat Mea	ns		0.63	0.63		0.00	0.00		+			0.00	0.00		0.00	0.00)	0				0.00	0.0	0	0.00	0.00)	0	
Fisher's Stouffer'	.9	Power			Power Power					0.419 0.498	Power Power				r-50% r-50%			ralue ralue	0.65 0.50		wer				wer-50% wer-50%				0.655 0.500
506C/506 1598C/1598 846C/846 1650C/1650	3	4 3 2 6	1.25 0.00 0.00 0.83	1.25 0.00 0.00 0.83	4	1.25 0.00 0.00	1.25 0.00 0.00	-	0 0	1.000 1.000 1.000	4 3 2 6	3.33 0.00 1.25	18.79 3.33 0.00 1.25	4 2	10.00 0.00 0.00	10.00 0.00 0.00) } -	- + - + - 0	0.10 0.42 1.00	3 3		42.50 3.33 0.00 1.25	0.0 1.2	3 4 0 2 5 0	0.00	10.00 0.00 0.00) -) -	0	0.102 0.423 1.000
Habitat Mea	ins		0.53	0.53		0.43	0.43		0			11.78	5.85		3,33	3.33	3	+				11.78	5.8	5	3.33	3,33	ł	+	
Fisher's Stouffer'	s	Power Power			Power					0.655 y 0.500	Power Power	0.132 0.155			er-50% er-50%			/alue /alue	0.10		wer	0.13			wer-50% wer-50%		P-va P-va		0.107

⁽a) Genera not separated.

⁽b) Elachista, Ectocarpie 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-5.340. 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											Mort	holog	ical	Group:	Bladed R	eđs					1	Palmar	ia spp.	(A)			
Site Pair M	Mvd	N	С	SE	N	0	SE	C	, D	P	N	с	SE	N	0	SE	CV.	D	P	N	C	SE	Ŋ	0	SE	CV	D	P
506C/506 1598C/1598 846C/846 1650C/1650	1	5 5 6 6	1.00 0.00 0.00 0.00	1.00 0.00 0.00 0.00	5 6	1.88 0.00 0.00 0.00	1.8 0.0 0.0	0 -	- 0	0.769 1.000 1.000	5 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5	0.00 0.00 0.00 0.00	0.00 0.00 00.0 00.0	-	0	1.000 1.000 1.000 1.000	5 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 6 2	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Means	s		0.25	0,25		0.48	0.4	8	-			0.00	0.00		0.00	0.00		Ф			0.00	0.00		0.00	0.00		. 0	
Fisher's Stouffer's		Power			Power-				lue lue	0.639 0.499	Power Power				r-50% r-50%		P-valu P-valu		0.698 0.500	Power Power				r-50% r-50%				0.698 0.500
506C/506 1598C/1598 846C/846	2 2 2 2	5	0.00 0.00 2.50 0.00	0.00 0.00 2.50 0.00	5 5	10.00 0.00 0.00	6.0 0.0 0.0	0	 - 0 	0.103 1.000 0.391	4 5 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 5	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	4 5 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00		0	1.000 1.000 1.000
Habitat Means	5		0.63	0.63		3.33	2.0	0	-			0.00	0.00		0.00	0.00		0			0.00	0.00)	0.00	0.00	1	0	
Fisher's Stouffer's	3	Power	0.024		Power-					0.256 0.593	Power Power				r-50% r-50%				0.655	Power Power				r-50% r-50%				0.655 0.500
506C/506 1598C/1598 846C/846 1650C/1650	3 3 3	4 3 2 6	1.25 4.17 0.00 2.92	1.25 3.00 0.00 2.92	4 2	10.63 0.00 0.00	7.1 0.0 0.0	0	 - •	0.289 0.227 1.000	4 3 2 6	1.25 0.00 0.00 0.00	1.25 0.00 0.00 0.00	4 2 0	0.00 0.00 0.00	0.00 0.00 0.00			0.391 1.000 1.000	4 3 2 6	1.25 0.00 0.00 0.00	1.25 0.00 0.00 0.00	2 0 0	0.00	0.00) -) -	- 0	0.391 1.000 1.000
Habitat Means Fisher's		Power	2.10 0.014	1.80	Power		0.040	P-v		0.417 y		0.33	0.33	Powe	0.00 r-50%		P-valu		0.419	Power		-	Powe	r-50%		P-ve	alue	
	1	Power Power		1.80		-50%		P-v	alue	0.417 y 0.124	Power Power		0.33	Powe					0.419 0.498	Power Power		-	Powe				P-ve	P-value

x. At least one site pair p-value < 0.100 in upposite direction of overall tests. Direction of difference between habital mesos is different than direction of overall tests. a Only one site pair.

z Only one site	pair.						Comptoninhoris empdii (3)												Gloiopeltis furcata (A)											
			Morphological Group:				Filame:	ntous		Cryptosiphonia woodii (A)																				
Site Pair	Mvd	N	С	SE	N	0	SE	CA	D	P	N	¢	SE	N	0	32	CV	D	P	N	С	SE	N	0	SE	CV		P		
506C/506 1598C/1598 846C/846 1650C/1650		5 5 6 6	1.00 0.00 0.00 0.00	1.00 0.00 0.00 0.00	5 6	1.88 0.00 0.00 0.00	1.88 0.00 0.00) -	0	0.769 1.000 1.000 1.000	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6	0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000	5 5 6 6	1.00 0.00 0.00 0.00	1.00 0.00 0.00 0.00	5 6	1.88 0.00 0.00 0.00	1.88 0.00 0.00 0.00	-	0	0.769 1.000 1.000 1.000		
Habitat Mea	ns		0.25	0.25		0.48	0.48	3	-			0.00	0.00		0.00	0.00		0			0.25	0.25		0.48	0.48		-			
Fisher's Stouffer'	s	Power Power			Power Power			P-va P-va		0.639 0.499	Power Power				er-50% er-50%			lue lue	0.698 0.500	Power Power				r-50% r-50%		P-va P-va		0.639		
506C/506 1598C/1598 846C/846 1650C/1650	2	4 5 4 5	0.00 0.00 2.50 0.00	0.00 0.00 2.50 0.00	5 5	10.00 0.00 0.00	6.04 0.00 0.00) -) -	- O +	0.103 1.000 0.391	4 5 4 5	0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 5 5 0	0.00	0.00 0.00 0.00	- - -	0	1.000 1.000 1.000	4 5 4 5	0.00 0.00 2.50 0.00	0.00 0.00 2.50 0.00	5	3.13 0.00 0.00	1.88 0.00 0.00	- -	. 0	0.185 1.000 0.391		
Habitat Mea		_	0.63	0.63		3.33	2.00	1	-			0.00	0.00		0.00	0.00		0			0.63	0.63		1.03	0.63		-			
Fisher's Stouffer'		Power Power	0.028		Power Power			P-va P-va		0.256 0.593	Power Power				er-50%			lue		Power Power	0.051 0.013			er-50% er-50%				0.361 0.594		
506C/506 1598C/1598 846C/846 1650C/1650	3	4 3 2 6	0.00 4.17 0.00 2.92	0.00 3.00 0.00 2.92	4 2	10.63 0.00 0.00	7.10 0.00 0.00) -) -		0.198 0.227 1.000	4 3 2 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	2	3.13 0.00 0.00	3.13 0.00 0.00	-	0	0.391 1.000 1.000	4 3 2 6	0.00 0.00 0.00	0.00	4 2 0	3.13 0.00 0.00	3.13 0.00 0.00) -	0	0.391 1.000 1.000		
Habitat Mea	ıns		1.78	1.48		3.53	2,3	7	-			0.00	0.00		1.03	1.03		-			0.00	0.00		1.03	1.03		-			
Fisher's Stouffer'	q	Power Power	0.005 0.000		Power Power					0.396 0.875	Power Power				er-50% er-50%			lue	0.419 0.498	Power Power				er-50% er-50%				0.419 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

Table C-5.340. Algal Percent Cover. Rhodophyta. Prince William Sound. Coarse Textured. May 1991. Overstory removed June 1990. (Continued.)

			/Rhodomela	Odonthalia floccosa (P)										Morphological Group: Saccate Reds														
Site Pair	Mvd	N N	c	gr	N	•	SE	CV	D	P	N	С	\$E	N	0	SE	CV	D	P	N	С	SE	N	0	SE	C	ם ע	P
506C/506 1598C/1598 846C/846 1650C/1650	1 1 1 1	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 6	0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000	5 5 6 6	0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00) –) –		1.000 1.000 1.000 1.000	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 2	0.00 0.00 0.00 0.00	0.00 0.00 0.00) -) -	- 0	1.000 1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00		0.00	0.00		0			0.00	0.00	Power	0.00	0.00	P-va	O	0.698	Power	0.00	0.00		0.00 r-50%	0.00		o alue	0.698
Fisher's Stouffer'	s	Power Power				r-50% r-50%		P-val		0.698 0.500	Power Power			Power			P-va		0.500	Power			Powe	r-50%		P-V	alue	0.500
506C/506 1598C/1598 846C/846 1650C/1650	2	4 5 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5	6.88 0.00 0.00	6.88 0.00 0.00	- - -	- 0 0	0.391 1.000 1.000	4 5 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 5 0	0.00 0.00 0.00	0.00	} -	-	1.000 1.000 1.000	4 5 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 5	0.00	0.00) ·	- o	1.000
Habitat Mea	ns		0.00	0.00		2.30	2.30		-			0.00	0.00		0.00	0.00)	0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	5	Power Power				r-50% r-50%				0.419 0.498	Power Power				r-50% r-50%			iluc ilue	0.655 0.500	Power Power				r-50% r-50%				0.655 0.500
506C/506 1598C/1598 846C/846 1650C/1650	3	4 3 2 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	4 2	4.37 0.00 0.00	4.37 0.00 0.00	- - -	0	0.391 1.000 1.000	4 3 2 6	0.00 4.17 0.00 2.92	0.00 3.00 0.00 2.92	4 2	0.00	0.00			1.000 0.227 1.000	4 3 2 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 2 0	0.00 0.00 0.00 	0.00 0.00 0.00		- 0 - 0 - 0	1.000 1.000 1.000
Habitat Mea Fisher's		Power	0.00	0.00	Powe	1.47 er-50% er-50%				0.419 0.498	Power Power	0.016 0.005	1.48	Powe:	0.00 r-50% r-50%		P-va		0.309	Power Power	0.00	-	Powe	r-50% r-50%		P-v	alue	0.655 0.500

ial campra nou 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.

y Direction of Dir

Polysiphonia/Pterosiphonia (A) (a) Fine Filamentous Reds Morphological Group: Halosaccion glandiforms (A) SE CV D P N C P 0 QR. CV D P CV D С RR Mvd N Site Pair 1.000 0.00 0.00 0.00 0 0.00 0.00 0 1.000 1.000 0.00 0.00 0.00 0.00 0.00 506C/506 0.00 0 1.000 0.00 0.00 0.00 1.000 0.00 0.00 5 0 0.00 0.00 o 1.000 0.00 0.00 0.00 0 0.00 1598C/1598 0.00 - 5 0.00 1.000 0.00 0.00 6 0.00 0.00 - o 0.00 0 - 0 0.00 1,000 0.00 a na 6 0.00 0.00 0.00 846C/846 - 0 1.000 0.00 0.00 1.000 0.00 0.00 2 0.00 0.00 0.00 0 0.00 - 0 1.000 0.00 0.00 0.00 2 1650C/1650 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0,00 0 0.00 0.00 0.00 0 Habitat Means Power-50% --- P-valuc 0.698 --- P-value 0.698 Power-50% Power ------ P-value 0.698 Power-50% Power Fisher's Power Power-50% --- P-value 0.500 Power-50% --- P-value 0.500 Power Power-50% --- P-value 0.500 Power Stouffer's Power: 0.00 0.00 1.000 0.00 0.00 0.00 0 0.00 0.00 0.00 0.00 - o 1.000 0.00 506C/506 0.00 0.00 0.00 - o 1.000 0.00 1.000 0.00 0.00 0.00 0.00 -0 0.00 0.00 5 0.00 0.00 - 0 1598C/1598 2 5 0.00 0.00 0.00 - o 1.000 1.000 0.00 - 0 1.000 0.00 0.00 0.00 0.00 _ 0 4 0.00 0.00 0.00 0.00 8460/846 0.00 0.00 0.00 0 __ 5 0.00 0.00 0 1650C/1650 2 0.00 5 0.00 0.00 0.00 0.00 0 0.00 0.00 0.00 0 0.00 0.00 0.00 Habitat Means 0.00 0.00 0 --- P-value 0.655 Power-50% --- P-value 0.655 Power --- P-value 0.655 Power-50% Power Power-50% Fisher's Power Power-50% --- P-value 0.500 --- P-value 0.500 Power --- P-value 0.500 Power-50% Power Power ---Power-50% Stouffer's 0.00 1.000 1.000 0.00 0.00 0.00 - 0 0.00 1,000 0.00 0.00 0.00 0 506C/506 0.00 0.00 0.00 0.00 - n 0.00 0.00 0.00 0.00 - 0 1.000 0.00 1.000 - 0 1.000 0.00 0.00 0.00 _ 0 0.00 1598C/1598 0.00 0.00 0.00 0.00 0.00 0.00 0.00 - 0 1.000 1.000 0.00 0.00 0.00 0.00 0 0.00 - 0 1.000 0.00 0.00 0.00 846C/846 0.00 0.00 0.00 0.00 0 1650C/1650 0.00 0.00 0 0.00 0.00 0.00 n nn O 0.00 0.00 0.00 0.00 0 0.00 0.00 0.00 0.00 ٥ Habitat Means --- P-value 0.655 Power-50% --- P-value 0.655 Power Power-50% Power-50% --- P-value 0.655 Power Power Fisher's --- P-value 0.500 Power-50% --- P-value 0.500 Power --- P-value 0.500 ---Power-50% Power-50%

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while such separated. x At least one site pair p-value < 0.100 in opposite direction of overall tests. y Direction of difference between habital means is different than direction of overall tests. y Only one site pulf.

Table C-5.341. Algal Percent Cover. Invertebrates. Prince William Sound. Coarse Taxtured. 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; CV = coefficient of variation; SF = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P probability value; dashes = insufficient data.

					Bala	nomorph								Lo	ttiidae								м	l ytilus				
Site Pair 1	Mvd	N	С	SE	N	0	SE	CV	D	P	N	c	SE	N	0	SE	cv	D	P	N	¢	SE	N	0	SE	C	v D	P
506C/506 1598C/1598 846C/846 1650C/1650	1	5 5 6 6	3.50 0.50 0.00 0.00	0.61 0.50 0.00 0.00	5 6	0.00 1.00 0.00 0.00	0.00 0.61 0.00	-	0	0.000 0.545 1.000 1.000	5 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00		0	1.000 2.000 1.000 1.000	5 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00		- 0	1.000 1.000 1.000 1.000
Habitat Means	S		1.00	0.28		0.25	0.15		+			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power	0.322		Power Power			P-valı P-valı			Power Power			Power	r-50% r-50%		P-val P-val		0.698 0.500	Power Power				r-50% r-50%				0.698 0.500
846C/846	2 2 2 2	5 4	6.25 4.00 6.88 3.00	2.39 1.27 2.13 1.84	5	4.38 5.50 1.00	2.58 1.66 0.61	-	-	0.407 0.669 0.013	4 5 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000	4 5 4 5	0.00 0.50 1.88 0.00	0.00 0.50 1.88 0.00	5 5	1.25 0.50 0.00	0.50 0.00			0.391 1.000 0.391
Habitat Means	s		5.05	1.90		3.63	1.63					0.00	0.00		0.00	0.00		0			0.60	0.60		0.60	0.60		_	
Fisher's Stouffer's		Power Power	0.356		Power Power		0.948	P-valu P-valu			Power Power			Power Power			P-val		0.655 0.500	Power Power			Power	r-50% r-50%				0.533 y 0.595
506C/506 1598C/1598 846C/846 1650C/1650	3		0.00 0.83 5.00 6.25	0.00 0.83 5.00 3.58	4 2	0.00 1.25 2.50	0.00 4.15 2.50	-	-	1.000 0.117 0.829	4 3 2 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4	0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	4 3 2 6	0.00 0.00 0.00 0.00	0.00	4 2	2.50 3.00 0.00	2.50 0.00 0.00	-	c	0.391 1.000 1.000
Habitat Means	ŝ		3.02	2.35		4.60	2.23		-			0.00	0.00		0.00	0.00		0			0.00	0.00		0.83	0.83		-	
Fisher's Stouffer's		Power Power	0.154		Power Power		0.034	P-valı P-valı			Power Power			Power Power					0.655 0.500	Power Power			Power Power		I			0.419 0.498

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

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				_	Litt	orinidae																						
Site Pair 1	Mvđ	N	С	SE	N	0	SE	ÇV	D	P	N	С	SE	N	0	SE	cv	D	P	N	С	SE	N	0	SE	cv :	D	P
1598C/1598 846C/846 1650C/1650	1 1 1	5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 2	0.63 0.00 0.00 0.00	0.6 0.0 0.0) -) -	0	0.391 1.000 1.000 1.000										h."								
Habitat Means			0.00	0.00		0.15	0.1	5	-																			
Fisher's Stouffer's		Power Power			Power Power					0.492 0.498	Power Power			Power Power						Power Power			Power Power			P-value P-value		
1598C/1598 846C/846	2 2 2 2	5 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 5	0.00	0.00) -	0	1.000 1.000 1.000																		
Habitat Means	s		0.00	0.00		0.00	0.00		0																			
Fisher's Stouffer's		Power Power			Power Power					0.655 0.500	Power Power			Power Power			P~val P~val			Power Power			Power-			P-value P-value		
1598C/1598 846C/846	3 3 3	3 2	0.00 0.00 0.00 0.42	0.00 0.00 0.00 0.42	4 2	0.63 0.00 0.00	0.63 0.06 0.06) -) -	0	0.391 1.000 1.000																		
Habitat Means	S		0.10	0.10		0.20	0.20		-																			
Fisher's Stouffer's		Power Power			Power Power					0.419	Power Power			Power Power			P-val			Power Power			Power-			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. Only one site pair.

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; v = control > oiled; - = control < oiled; o = control · oiled; P = probability value; dashes = insufficient data.

						Rock			_				01	1ad Rock					_				Muđ				
Site Pair	Mvd	N	С	SE	N	0	98	cv	D P	N	c	SE	N	0	SE	CV D	;	P	N	С	SE	N	0	9E	ÇV	D	P
506C/506 1598C/1598 846C/846 1650C/1650	1 1 1	5 5 6	92.00 91.00 81.67 100.00	4.90 8.39 21.76 0.00	5 6	97.50 99.00 100.00	1,77 0.61 0.00 0.00	-	- 0.4	53 5 99 6	0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0		000	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1,000 1.000 1.000
Habitat Mean	15		91.18	6.28		99.13	0.60		-		0.00	0.00		0.00	0.00	0				0.00	0.00		0.00	0.00		Ó	
Fisher's Stouffer's		Power Power				er-50% er-50%		P-valu P-valu						er-50% er-50%		-value -value			Power Power			Power					0.698
506C/506 1598C/1598 846C/846 1650C/1650	2 2 2 2	5 4	86.88 90.50 61.25 95.00	4.61 12.16 20.45 3.16	5 5	81.88 94.00 98.00	5.90 2.03 1.46		- 0.0	56 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00	- o - o	1.0		4 5 4 5	0.00 0.00 0.00	0.00 0.00 0.00	5 5	0.00 0.00 0.00	0.00	-	0	1.000 1.000 1.000
Habitat Mean	19		80.93	10.13		91.30	3.13		-		0.00	0.00		0.00	0.00	0				0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power				er-50% er-50%		P-vaiu P-valu						er-50% er-50%		-value			Power Power			Power Power		I			0.655
506C/506 1598C/1598 846C/846 1650C/1650	3 3 3	2	3.13 71.67 71.25 65.83	3.13 21.03 18.75 15.02	0	56.25 69.38 97.50	19.70 15.72 2.50		- 0.00 + 0.84 - 0.21	12 3 25 2	0.00 0.00 0.00 0.00	0.00 0.00 0.00	4 2 0	0.00	0.00 0.00 0.00		1.0	000	4 3 2 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 2	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1,000
Habitat Mean	ıs		52.97	14.48		74.40	12.63		-		0.00	0.00		0.00	0.00	0				0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power	0.359			er-50% er-50%	0,448	P-value P-value						2r-50%		-value -value			Power Power			Power Power					0.655 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. Only one site pair.

Table C-5.342. Page 1. December 15, 1994

						Sand	_								Shel	l Fragmen	ta								Water				
Site Pair	Mvd	N	С	SE	N	0	SE		CA	D	P	N	с	SE	N	0	SE	CV	D	P	N	С	SE	N	0	ŠE	,	V D	P
506C/506 1598C/1598 846C/846 1650C/1650	1 1 1	5 5 6 6	0.00 0.00 6.67 0.00	0.00 0.00 6.67 0.00	576	0.00	0.0	00	_	0	1.000 1.000 0.363 1.000	5 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 6	0.00 0.00 0.00	0.00 0.00 0.00	0	- o	1.000 1.000 1.000 1.000
Habitat Mean	ns		1.68	1.68	3	0.00	0.0	00		+			0.00	0.00		0.00	0.00		O			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer's		Power Power				wer-50% wer-50%					0.477 0.401	Power Power				er-50% er-50%		-valı -valı		0.698 0.500	Power Power			Power	-50% -50%				0.698 0.500
506C/506 1598C/1598 846C/846 1650C/1650		4 5 4 5	0.00 0.00 23.13 0.00	0.00 0.00 23.13 0.00	5 5	0.00	0.0	00	-	0	1,000 1,000 0.391	4 5 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 5	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	4 5 4 5	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00	0	- 0	1.000 2.000 1.000
Habitat Mean	ns		5.77	5.77	,	0.00	0.0	00		+			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer's		Power Power				wer-50% wer-50%					0.419	Power Power				er-50% er-50%		-val:		0.655 0.500	Power Power			Power					0.655 0.500
506C/506 1598C/1598 846C/846 1650C/1650	3	4 3 2 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.0	00	-	0	1.000	4 3 2 6	0.00 0.00 0.00 0.83	0.00 0.00 0.00 0.83	4 2	0.00	0.00 0.00 0.00	- - -		1.000 1.000 1.000	4 3 2 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	4 2	0.00 0.00 0.00	0.00 0.00 0.00	0	- 0	1.000 1.000 1.000
Habitat Mear	ກຮ		0.00	0.00)	0.00	0.0	00		0			0.20	0.20		0.00	0.00		0			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer's		Power Power				wer-50% wer-50%					0.655 0.500	Power Power				er-50% er-50%				0.655 y 0.500	Power Power			Power					0.655 0.500

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

Table C-5.342, Algal Percent Cover, Substrates, Prince William Sound, Coarse Textured, May 1991, Overstory removed June 1990, (Continued.)

				Zo	stera/	Phyllospa	adix							Sar	nd and Mud	l .							Tota	ıl Substr	ate			
Site Pair	Mvđ	N	С	SE	N	О	SE	CV	D	P	N	С	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	c	ם עי	P
506C/506 1598C/1598 846C/846 1650C/1650	1	5 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	5 5 6	0.00 0.00 6.67 0.00	0.00 0.00 6.67 0.00	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 0.363 1.000	5 5 6 6	92.00 91.00 88.33 100.00	4.90 8.39 11.17 0.00	5 6	97.50 99.00 100.00 100.00	1.77 0.61 0.00 0.00			0.219 0.463 0.288 1.000
Habitat Mea	മള		0.00	0.00		0.00	0.00		0			1.68	1.68		0.00	0.00)	+			92.82	6.13		99.13	0.60)	-	
Fisher's Stouffer'		Power Power			Power Power			P-val P-val		0.698 0.500	Power Power				er-50% er-50%		P-va P-va		0.477 0.401	Powe Powe				er-50% er-50%				0.126 0.163
506C/506 1598C/1598 846C/846 1650C/1650	2 2 2 2	5 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00		-	1.000 1.000 1.000	4 5 4 5	0.00 0.00 23.13 0.00	0.00 0.00 23.13 0.00	5	0.00 0.00 0.00	0.00 0.00	-	0	1.000 1.000 0.391	4 5 4 5	86.88 80.50 84.38 95.00	4.61 12.16 6.87 3.16	5 5	81.88 94.00 98.00	5.90 2.03 1.46	;		0.497 0.256 0.039
Habitat Mea	ns		0.00	0.00		0.00	0.00		0			5.77	5.77		0.00	0.00		-			86.70	6.72		91.30	3.13	3	_	
Fisher's Stouffer'		Power Power			Power Power			P-val P-val		0.655 0.500	Power Power				er-50% er-50%		P-va P-va		0.419 0.404	Powe:				er-50% er-50%			ralue raluo	0.050 0.047
506C/506 1598C/1598 846C/846 1650C/1650	3 3 3	3	0.00 0.83 0.00 0.00	0.00 0.83 0.00 0.00	2	0.00 0.00 0.00	0.00 0.00 0.00	1		1.000 0.423 1.000	4 3 2 6	0.00 0.00 0.00 0.83	0.00 0.00 0.00 0.83	2	0.00 0.00 0.00	0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000	4 3 2 6	3.13 71.67 71.25 66.67	3.13 21.03 18.75 15.12	4 2	56.25 69.38 97.50	19.70 15.72 2.50	;)		0.025 0.842 0.225
Habitat Mea	nş		0.20	0.20		0.00	0.00		1			0.20	0.20		0.00	0.00		0			53.20	14.50		74.40	12.63	ı	-	
Fisher's Stouffer'		Power Power			Power Power					0.437 0.221	Power Power				er-50% er-50%		P-val P-val		0.655 v 0.500	Powe:				er-50% er-50%			aluc alue	0.027 0.434

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

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 vertical drop; N - sample size; C = control mean; CV = coefficient of variation of difference; + = control > oiled; - = control < oiled; o = control oiled; P = probability value; dashes = insufficient data.

				Algal	Dīve	rsity In	ndex (a)						Alga	l Tax	ka Richn	(D)							Tota	al Algae	e			
Site Pair M	ivd	N	С	SE	N	0	SE	cv	D	P	N	С	ge	N	0	ŞE	¢	V D	P	N	С	SE	N	0	SE	_,	ÇV D	P
1598C/1598 : 846C/846 : 1650C/1650 :	1	5 3 6	0.00 0.00 0.00	0.00	5	0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	5 3 6	0.40 0.00 0.17	0.24 0.00 0.17	5	0.00 0.40 0.00	0.00 0.24 0.00			0.178 0.178 0.363	5 3 6	2.50 0.00 1,25	1.58 0.00 1.25	5	0.00 2.00 0.00	0.00 1.46 0.00	6	- + - +	0.181 0.198 0.363
Habitat Means	5		0.01	0.01		0.00	0.00	1	+			0.35	0.18		0.23	0.13	;	1			2.20	1.20		2.52	1.85	5	+	
Fisher's Stouffer's		Power Power			Power Power			P-valu P-valu		0.477 0.498	Power Power	0.192 0.110			r-50% r-50%	0.371 0.474			0.185	Power Power	0.04		Power Power					0.294 y 0.134
1598C/1598 846C/846	2 2 2 2	4 2	0.00 0.00 0.00 0.08	0.00 0.00 0.00	5	0.05 0.00 0.00 0.00	0.05	-	0	0.391 1.000 1.000	5 4 2 6	0.20 0.50 0.00 0.50	0.20 0.29 0.00 0.50	5 5	0.75 0.00 0.20 0.00	0.48) .		0.287 0.182 0.374	5 4 2 6	2.00 25.62 0.00 3.33	2.00 21.66 0.00 3.33	5 5	8.75 0.00 8.00 0.00	7,18 0.00 8.00	0		0.363 0.265 0.374
Habitat Means	3		0.02	0.02		0.01	0.02		-			0.30	0.25		0.24	0.23	ı	-			7.72	6.75		4.20	5.07	7	-	
Fisher's Stouffer's		Power Power			Power Power					0.419 y 0.498	Power Power	0.063			r-50% r-50%	0.000 0.000			0.283	Power Power	0.00		Power Power					0.316 y 0.791
846C/846	3		0.22 0.00 0.00 0.06	0.10 0.00 0.00 0.06	5	0.31 0.00 0.00 0.00	0.00 0.00 0.18	-	0	0.658 1.000 1.000 0.374	5 4 2 5	2.20 1.00 0.50 0.80	0.58 0.00 0.50 0.37	5	3.00 0.40 0.33 0.00	1.15 0.24 0.33 0.00	, .	- +	0.512 0.070 0.789 0.099	5 4 2 5	38.00 51.88 2.50 32.00	16.96 23.66 2.50 19.40	5	51.67 3.00 33.33 0.00	22.42 2.42 33.33 0.00	2 3	 - : - +	0.719 0.032 0.589 0.141
Habitat Means	š		0.07	0.04		0.08	0.05		+			1.13	0.36		0.93	0.43	3	+			31.10	15.65		22.00	14.53	3	+	
Fisher's Stouffer's		Power Power	0.006		Power Power			P-vain P-vain		0.545 y 0.416	Power Power				r-50% r-50%				0.056 0.016	Power Power			Power Power					0.057 0.014

Table C-5.363. Page 1. December 15, 1994

				TO	tal II	verteb:	rates							Rock	_							Peres	nials (P)			
Site Pair	Mvd	N	C	SE	N	0	92	CV D	P	N	С	SE	N	0	SE	ÇV I	b	P	N	С	SE	N	0	ge	¢	V D	P
506C/506 1598C/1598 846C/846 1650C/1650	1	6 5 3 6	0.00 5.00 0.00 0.42	0.00 3.26 0.00 0.42	5 5 2	7.50 8.50 2.00 0.00	5.95 6.78 1.46 0.00	3 5 0 - +	0.902 0.198	6 5 3 6	95.00 92.50 95.83 98.33	1.94 4.74 3.00 1.24	5 5	84.38 91.50 96.00 100.00	9.04 6.78 1.50 0.00	- + - !	-	0.481 0.910 0.887 0.194	6 5 3 6	3.75 2.50 0.00 1.25	2.02 1.58 0.00 1.25	5 5	8.13 0.00 2.00 0.00	5.90 0.00 1.46 0.00		 - + 	0.625 0.181 0.198 0.363
Habitat Mean	ាន		1.35	0.93		4.50	3.58	3 -			95.40	2.70		92.98	4.33	-	-			1.90	1,23		2.52	1.85		+	
Fisher's Stouffer's	3	Power Power	0.068 0.127		Power Power			P-value P-value		Power Power	0.016			er-50% er-50%		P-value P-value		0.428 y 0.403	Power Power	0.023		Power		0.250			0.328 y 0.134
506C/506 1598C/1598 846C/846 1650C/1650	2 2 2 2	2	5.50 13.75 1.25 7.92	3.91 7.25 1.25 2.77	5	5.63 2.50 1.50 0.00	2.13 2.50 1.00	} - ·	0.057	5 4 2 6	92.50 60.63 98.75 88.75	5.81 18.58 1.25 2.87	5	85.63 97.50 90.50 100.00	5.24 2.50 8.89		-	0.200 0.024 0.698	5 4 2 6	2.00 25.62 0.00 0.83	2.00 21.66 0.00 0.83	5 5	6.25 0.00 8.00 0.00	6.25 0.00 8.00			0.640 0.265 0.374
Habitat Mean	18		7.12	3.83		2.40	1.87	, -			85.17	7.15		93.40	5.53	4	+			7.10	6.13		3.58	4.77		-	
Fisher's Scouffer's		Power Power	0.025 0.009		Power Power			P-value P-value	0.716xy 0.965	Power Power	0.040 0.004			er-50% er-50%	0.794 0.843			0.347 _{×y} 0.980	Power Power	0.002		Power Power		0.026			0.433 y 0.792
506C/506 1598C/1598 846C/846 1650C/1650	3 3 3	2	9.50 0.63 25.00 13.00	7.76 0.63 15.00 4.83	5 3	0.83 5.50 13.33 31.25	0.83 3.30 6.82 28.75	2 - +	0.224	5 4 2 5	49.00 47.50 72.50 55.00	14.63 23.32 17.50 18.35	5	47.50 91.50 53.33 68.75	21.84 4.72 26.71 28.75		-	0.994 0.062 0.588 0.647	5 4 2 5	9.00 3.13 0.00 27.50	3.22 3.13 0.00 18.27	5 3	31.67 3.00 0.00 0.00	18.28 2.42 0.00 0.00	ı	 - I - O	0.147 0.907 1.000 0.155
Habitat Mean	15		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 Stouffer's		Power Power	0.051 0.034		Power Power			P-value P-value		Power Power	0.188			er-50% er-50%		P-value P-value			Power Power	0.011		Power		0.052 0.125			0.411 0.328

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

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

 $[\]kappa$. At least one sits pair p-value < 0.100 in opposite direction of overall masts. y direction of difference between habitat means is different than direction of overall tests. 2 hdly one size pair.

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

					 λ ππ	uals (A	L)							Ephe	merals (AE)											
Site Pair	Mv	dN	С	Se	N	0	SE	C/	ם ז	P	N	c	SE	N	0	SE	Ċ۷	D	2	N	¢	88	N	٥	SE		 T) p
846C/846 1650C/1650	1	3 6	0.00	0.00	5	0.00	0.0	0 -	0	1.000	3 6	0.00 0.00 0.00	0.00	5	0.00 0.00 0.00	0.00 0.00	-	0	1.000								
Habitat Mean	rs.		0.33	0.33		0.00	0.0	0	•			0.20	0.20		0.00	0.00	ı	,									
Fisher's Stouffer's	s	Power Power			Power Power					0.477	Power Power				er-50% er-50%				0.477	Power Power			Power Power				
506C/506 1598C/1598 846C/846 1650C/1650	2	5 4 2 6	0.00 0.00 0.00 2.50	0.00 0.00 0.00 2,50	5 5	2.50 0.00 0.00 0.00	1.4 0.0 0.0	0 - 0 -	0	0.182 1.000 1.000	5 4 2 6	0.00 0.00 0.00 1.25	0.00 0.00 0.00 1.25	5 5	0.00 0.00 0.00	0.00	-	0	1.000 1.000 1.000				rower	-30%		P~value	е
Habitat Mear	ns		0.63	0.63		0.63	0.4	7	-			0.33	0.33		0.00	0.00		0									
Fisher's Stouffer's	ŝ	Power Power	0.000 0.000		Power Power					0.271 y 0.497	Power Power				r-50% r-50%				0.655	y Power Power			Power Power			P~value P~value	
506C/506 1598C/1598 846C/846 1650C/1650	3	5 4 2 5	29.00 48.75 2.50 4.50	16.46 25.53 2.50 4.50	5 3	20.00 0.00 33.33 0.00	10.1 0.0 33.3 0.0	G -	_	0.703 0.127 0.589 0.374	5 4 2 5	29.00 48.75 2.50 4.50	16.46 25.53 2.50 4.50	5	10.00 0.00 33.33 0.00	8.78 0.00 33.33 0.00	-	-	0.407 0.127 0.589 0.374				10461	- 30 %		rvalu	2
Habitat Mean	ns		21.20	12.25		13.33	10.89	5	+			21.20	12.25		10.82	10.53		_	0.0.7								
Fisher's Stouffer's		Power Power	0.138		Power Power					0.167	Power	0.142			r-50% r-50%	0.173	P-val		0.120 0.068	Power Power			Power Power			P~value P~value	

x At least one site pair p-welve < 0.100 in opposite direction of overall tests. y Direction of difference between habitat means is different than direction of overall tests, a only one slip 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; CV = coefficient of variation; SE = standard error; D : direction of difference; - = control > oiled; - = control < oiled; O = control = oiled; P = probability value; dashes = insufficient data.

				7	rotal	Chloropi	hyta						Morp	hologi	cal (Group: B	laded Gr	eens					Bla	ded G	reens (AE	(a)			
Site Pair	Mvc	d N	С	SE	· N	0	98		CV	D	P	N	e	SE	N	o	SE	CV	D	P	N	С	SE	N	0	SE	- 1	CV D	P
506C/506 1598C/1598 846C/846 1650C/1650	1	6 5 3 6	0.83 0.00 0.00 0.00	0.83 0.00 0.00	5 5	0.00 0.00 0.00 0.00	0. 0. 0.	00 00	-	0 1	0.363 .000 .000	6 5 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 5 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 5	0.00 0.00 0.00	0.00 0.00 0.00)	- o	1.000 1.000 1.000 1.000
Habitat Mea	ns		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)	0	
Fisher's Stouffer'	s	Power Power				r-50% r-50%			valu valu).477).498	Power Power				r-50% r-50%		e-valu e-valu		0.698 0.500	Power Power				508 5-508				0.698 0.500
506C/506 1598C/1598 846C/846 1650C/1650	2	5 4 2 6	0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5	1.25 0.00 0.00 0.00	1.: 0.: 0.:	00		0 1	.391 000 000	5 4 2 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 5	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	5 4 2 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5	0.00 0.00 0.00	0.00 0.00 0.00)	- 0	1.000 1.000 1.000
Habitat Mea	r.s		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)	0	
Fisher's Stouffer'	ŝ	Power Power				r-50% r-50%			valu valu			Power Power				er-50% er-50%		e-valu e-valu		0.655 0.500	Power Power				-50% -50%				0.655 0.500
506C/506 1598C/1598 846C/846 1650C/1650 Habitat Mea	3	5 4 2 5	25.00 0.00 2.50 0.00 6.88	14.12 0.00 2.50 0.00	5 3 2	11.67 0.00 0.00 0.00	8.3 0.4 0.4 2.1	00 00 00	- :	0 1 + 0	0.520 000 0.500 000	5 4 2 5	1.00 0.00 0.00 0.00 0.00	1.00 0.00 0.00 0.00	5 3	1.67 0.00 0.00 0.00	0.83 0.00 0.00 0.00	-	0	0.428 1.000 1.000 1.000	5 4 2 5	1.00 0.00 0.00 0.00	1.00 0.00 0.00 0.00	5 3 2	1.67 0.00 0.00 0.00	0.83 0.00 0.00 0.00)) }	- o - o	0.428 1.000 1.000 1.000
Fisher's Stouffer'		Power Power	0.021 0.024	4.13	Powe:	r-50%	0.037	P-	valu valu	e 0	0.411 0.425	Power Power	0.000	0.23		er-50% er-50%	F	?-valu ?-valu		0.511 0.498	Power Power	0.000 0.000)	Power	1-50% 1-50%		2-1	value	0.511 0.498

(a) Kormmannia, Monostroma. Ulva and Ulvaria.
K At least one site pair p-walke < 0.100 in opposite directing of overall tests.</p>
y Direction of difference between babital means is different than direction of overall tests.
z Only one site pair.

Table C 5.346. Page 1. December 15, 1994

			Morpholog	rical G	roup:	Fine 1	Filamen	tous	Gre	епа	•			Ac:	rosip	honia sp.	(A)					Ch	aetomo	rpha/	Rhizoelon:	ium (A)	(a)	
Site Pair	Mvd	N	С	Se	N	0	SE		CA	D	P	N	С	Se	N	0	8E	cv	D	P	N	С	SE	N	0	SE	c	ם עי	p
506C/506 1598C/1598 846C/846 1650C/1650	1 1 1	6 5 3 6	0.83 0.00 0.00 0.00	0.83 0.00 0.00	5 5	0.00 0.00 0.00 0.00	0.0 0.0 0.0	00	-	0	0.363 1.000 1.000 1.000	6 5 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 5	0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 5 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		- 0 - 0 - 0	1.000 1.000 1.000 1.000
Habitat Mean	ns		0.20	0.20		0.00	0.0	0.0		+			0.00	0.00		0.00	0.00		0			0.00	0.00)	0.00	0.00	ı	0	
Fisher's Stouffer's		Power Power			Power Power				valu valu		0.477 0.498	Power Power				r-50% r-50%		-valu		0.698 0.500	Power Power				er-50% er-50%				0.698 0.500
506C/506 1598C/1598 846C/846 1650C/1650	2	5 4 2 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5	1.25 0.00 0.00 0.00	1.2 0.0 0.0	0	-	0	0.391 1.000 1.000	5 4 2 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 5	1.25 0.00 0.00 0.00	1.25 0.00 0.00	-	- 0 0 0	0.391 1.000 1.000	5 4 2 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00		- o - o - o	1.000 1.000 1.000
Habitat Mean	ns		0.00	0.00		0.33	0.4	13		-			0.00	0.00		0.33	0.43		-			0.00	0.00)	0.00	0.00		0	
Fisher's Stouffer's		Power Power			Power Power						0.419 0.498	Power Power				r-50% r-50%				0.419 0.498	Power Power				er-50% er-50%				0.655 0.500
506C/506 1598C/1598 846C/846 1650C/1650	3 3 3	5 4 2 5	24.00 0.00 2.50 0.00	14.24 0.00 2.50 0.00	5 3	10.00 0.00 0.00 0.00	7.6 0.0 0.0	00	-	o +	0.488 1.000 0.500 1.000	5 4 2 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 3	1.67 0.00 0.00 0.00	1.67 0.00 0.00 0.00	-	0	0.423 1.000 1.000 1.000	5 4 2 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00 0.00		- o	1.000
Habitat Mean	ns		6.62	4.18		2.50	1.9	0		+			0.00	0.00		0.42	0.42		-			0.00	0.00	1	0.00	0.00		0	
Fisher's Stouffer's		Power Power	0.018 0.017		Power Power		0.037				0.399 0.425	Power Power				r-50% r-50%		-valı -valı		0.508 0.498	Power Power				er-50% er-50%				0.698 0.500

(a) Gomera not apparated. A r least one site pair p-value < 0.100 in opposite direction of overall tests. 9 Direction of difference between habitat numbers is different than direction of overall tests. C Only one salte pair.

Table C-5.344. Algal Percent Cover. Chlorophyta. Prince William Sound. Coarse Textured. July 1991. Overstory removed July 1990. (Continued.)

				C1	adopho	ora sp.	(AE)						τ	Jloth:	rix sp. (AE)				Мо	rphologi	cal Gr	oup:	Tubular	and Saco	cate	3 Gre	ens
Site Pair	Mvd	N	С	SE	N	0	SE	cv	D	P	N	С	SE	N	0	ŞE	CV	D	P	N	С	SE	N N	0	SE	C	7 D	P
506C/506 1598C/1598 846C/846 1650C/1650	1 1 1	6 5 3 6	0.83 0.00 0.00 0.00	0.83 0.00 0.00	5 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	0.363 1.000 1.000 1.000	6 5 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 5 3 6	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00 0.00		- 0	1.000 2.000 1.000
Habitat Mea	ns		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		0	
Fisher's Stouffer'		Power Power			Power Power					0.477 0.498	Power Power				r-50% r-50%		-valu		0.698	Power Power				r-50% r-50%				0.698 0.500
506C/506 1598C/1598 846C/846 1650C/1650	2		0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	5 4 2 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 5	0.00 0.00 0.00	0.00	-	0	1.000 1.000 1.000	5 4 2	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 00.00 00.0		0	1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power			Power Power		I			0.655 0.500	Power Power				r-50% r-50%				0.655 0.500	Power Power				- 50% 50%	T	P-va	lue	0.655 0.500
506C/506 1598C/1598 846C/846 1650C/1650	3 3 3	2	24.00 0.00 2.50 0.00	14.24 0.00 2.50 0.00	5 3	8.33 0.00 0.00 0.00	8.33 00.00 00.00	-	O +	0.359 1.000 0.500 1.000	5 4 2 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	_	0	1.000 1.000 1.000 1.000	5 4 2 5	0.00 0.00 0.00	0.00 0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mean	ns		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		0	
Fisher's Stouffer's		Power Power	0.039 0.034		Power Power			-val		0.344	Power Power				r-50% r-50%				0.698	Power Power			Power	r-50% r-50%	P			0.698

- x at least one site pair p-value ϵ 0.180 in opposite direction of overall tests. y direction of difference between habitat means is different than direction of overall tests. ϵ only one site pair.

Table C 5.344. Page 3. December 15, 1

			В1	idingi	a/Ente	romorphe	a (AE)	(a)																			
Site Pair	Mv	đ N	С	ßE	N	0	SE	CV	D	P	N	c	SE	N	0	SE	CV	D	P	N	С	SE	N	0	ŞE	CV D	P
1598C/1598 846C/846 1650C/1650	1	5 3 6	0.00 0.00 0.00	0.00	5	0.00 0.00 0.00	0.0	0 -	0	1.000 1.000 1.000																	
Habitat Mean	пş		0.00	0.00		0.00	0.0	0	٥																		
Fisher's Stouffer's	э	Power Power			Power Power					0.698 0.500	Power Power			Power Power			P~val P~val			Power Power			Power			P-value P-value	
506C/506 1598C/1598 846C/846 1650C/1650	2	5 4 2 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 5	0.00 0.00 0.00	0.0	0 -	0	1.000 1.000 1.000																	
Habitat Mean	ns		0.00	0.00		0.00	0.0	0	0																		
Fisher's Stouffer's		Power Power			Power Power					0.655 0.500	Power Power			Power-			P-val			Power Power			Power			P-value	
506C/506 1598C/1598 846C/846 1650C/1650	3	5 4 2 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 3	0.00 0.00 0.00 0.00	0.00	0 -	0	1.000 1.000 1.000 1.000																	
Habitat Mean	nş		0.00	0.00		0.00	0.00)	o																		
Fisher's Stouffer's		Power Power			Power-					0.698 0.500	Power Power			Power-			P~valu P~valu			Power			Power-			P-value P-value	

is Cenera not separated.

x At least one site pair p-value < 0.100 in opposite direction of 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. 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; CV = coefficient of variation; SE = standard error; D = direction of difference; - = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes insufficient data.

				!	rotal	Phaeoph	yt.				Morpl	hologi	cal	Group:	Bladed :	Bro	WILS					Fu	cus cot	ttonii	(P)				
Site Pair	Mv	d N	c	BE	N	0	SE	CV	D	P	N	С	SE	N	0	SE		CV D	P	N	С	SE		N	0	SE	c	V D	P
506C/506 1598C/1598 846C/846 1650C/1650	1 1 1	6 5 3 6	3.75 2.50 0.00 1.25	2.02 1.58 0.00 1.25	5 5	8,13 0.00 2.00 0.00	5.90 0.00 1.46 0.00) – 5 –	-	0.625 0.181 0.198 0.363	6 5 3 6	3.75 2.50 0.00 1.25	2.02 1.58 0.00 1.25	5 5	8.13 0.00 2.00 0.00	5.9 0.0 1.4 0.0	6	 - + 	0.625 0.181 0.198 0.363	6 5 3 6	0.00 0.00 0.00 0.00	0. 0.	00	5	0.00 0.00 0.00 0.00	0.00) . } .	- 0 - 0 - 0	1.000 1.000 1.000 1.000
Habitat Mea	ans		1.90	1.23		2.52	1.85	i	+			1.90	1.23		2.52	1.8	15	+			0.00	0.	00		0.00	0.00)	0	
Fisher's Stouffer	' 9	Power Power	0.027 0.013			r-50% r-50%	0.238 0.368				Power Power	0.025 0.012			er-50% er-50%	0.222 0.336		-value -value		y Powe:				Power-5					0.698
506C/506 1598C/1598 846C/846 1650C/1650	2	5 4 2 6	2.00 3.13 0.00 2.08	2.00 3.13 0.00 2.08	5 5	6.25 0.00 8.00 0.00	6.25 0.00 8.00) -) -	-	0.640 0.391 0.374	5 4 2 6	2.00 3.13 0.00 0.83	2.00 3.13 0.00 0.83	5	6.25 0.00 8.00 0.00	6.2 0.0 8.0	o o	 - + 	0.640 0.391 0.374	5 4 2 6	0.00 0.00 0.00 0.00	0. 0.	00	5 5	0.00 0.00 0.00 0.00	0.00) .	- 0	1.000 1.000 1.000
Habitat Mea	âns		1.80	1.80		3.58	4.77		-			1.48	1.48		3.58	4.7	7	_			0.00	0.	00		0.00	0.00	}	0	
Fisher's Stouffer	's	Power Power				r-50% r-50%		P-valu P-valu			Power Power				er-50%			-value -value		Powe:				Power-5					0.655
506C/506 1598C/1598 846C/846 1650C/1650	3	4	13.00 51.88 0.00 13.00	4.83 23.66 0.00 11.79	3	31.67 3.00 33.33 0.00	18.28 2.42 33.33 0.00	-	+	0.257 0.032 0.423 0.265	5 4 2 5	9.00 3.13 0.00 8.50	3.22 3.13 0.00 7.31	5 3	31.67 3.00 0.00 0.00	18.2 2.4 0.0 0.0	2	 - 0	0,147 0.907 1.000 0.240	5 4 2 5	0.00 0.00 0.00	0. 0.	00	5 3	00.0 CO.0 00.0	0.00 0.00 0.00) .) .	- o - o	1.000 1.000 1.000
Habitat Mea	ans		19.48	10.08		17.00	13.50	ı	-			5.15	3.40		8.68	5.1	8	1			0.00	0.	00		0.00	0.00)	0	
Fisher's Stouffer	's	Power Power	0.198		Power Power	r-50% r-50%	0.272	P-valu P-valu			Power Power	0.003 0.009			er-50% er-50%	0.075 0.173		-value -value	0.498 0.350	y Powe: Powe:				Power-5 Power-5					0.698 0.500

- x. At least one site pair p-value < 0.100 in apposite direction of overell $t_{\rm sate}$, y. Direction of difference between habitat means is different than direction of overall tests. z. Only one site pair.

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				Tota	l Fuc	us gardı	eri (P)					Ađu	ılt Fu	cum g	ardneri	(P) (>	2cm	i)			Juv	enile F	ucus ç	gardneri	(P) (<=	2 c	m)	
Site Pair	Mvd	l N	С	SE	N	0	SE	cv	D	P	N	С	SE	N	٥	SE		CV D	P	N	c	SE	N	0	SE		V D	P
506C/506 1598C/1598 846C/846 1650C/1650	1 1 1	б 5 3 б	3.75 2.50 0.00 1.25	2.02 1.58 0.00 1.25	5 5	8.13 0.00 2.00 0.00	5.90 0.00 1.46 0.00) – i –	-	0.625 0.181 0.198 0.363	6 5 3 6	3.75 2.50 0.00 1,25	2.02 1.58 0.00 1.25	5 5	8.13 0.00 2.00 0.00	5.9 0.0 1.4 0.0	6	 - + 	0.625 0.181 0.198 0.363	6 5 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00) }	- o - o	1.000 1.000 1.000 1.000
Habitat Mear	ns		1.90	1.23		2.52	1.85	i	+			1.90	1.23		2.52	1.8	5				0.00	0.00		0.00	0.00	ì	0	
Fisher's Stouffer's	5	Power Power	0.024 0.012			r-50% r-50%		P-valu P-valu		0.328 y 0.134	Power Power	0.025 0.012			er-50% er-50%	0.248			0.328	Power Power				r-50% r-50%				0.698 0.500
506C/506 1598C/1598 846C/846 1650C/1650	2	5 4 2 6	2.00 3.13 0.00 0.83	2.00 3.13 0.00 0.83	5	6.25 0.00 8.00 0.00	6.25 0.00 8.00	-	+	0.640 0.391 0.374	5 4 2 6	2.00 3,13 0.00 0.83	2.00 3.13 0.00 0.83	5 5	6.25 0.00 8.00 0.00	6.2 0.0 8.0	0	 - + 	0.640 0.391 0.374	5 4 2 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 5	0.00 0.00 0.00 0.00	0.00)	- o - o - o	1.000 1.000 1.000
Habitat Mear	ns		1.48	1.48		3.58	4.77		-			1.48	1.48		3.58	4.7	7	_			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer's	s	Power Power				er-50% er-50%		P-valu P-valu			Power Power				er-50% er-50%				0,416 0.715	Power Power				r-50% r-50%				0.655 0.500
506C/506 1598C/1598 846C/846 1650C/1650	3 3	2	9.00 3.13 0.00 8.50	3.22 3.13 0.00 7.31	5 3	31.67 3.00 0.00 0.00	18.28 2.42 0.00 0.00	-	+ 0	0.147 0.907 1.000 0.240	5 4 2 5	9,00 3,13 0,00 8,50	3.22 3.13 0.00 7.31	5	31.67 3.00 0.00 0.00	18.2 2.4 0.0 0.0	2 0	 - 0 - +	0.147 0.907 1.000 0.240	5 4 2 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00)	- <i>o</i>	1.000 1.000 1.000 1.000
Habitat Mean	ıs		5.15	3.40		8.68	5.18	:	+			5.15	3.40		8.68	5.1	8	+			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer's	3	Power Power	0.005 0.009			r-50% r-50%	0.071 0.164	P-valu P-valu	ie ie	0.498 y 0.350	Power Power	0.003 0.007			r-50% r-50%	0.067 0.176			0.498	Power Power				r-50% r-50%				0.698 0.500

 $[\]times$ At least one site pair p-value < 0.100 in opposite direction of overall t_{bsts}, y Dijaction of difference between habitat means is different than direction of overall tests. Tonly one site pair.

Table C-5.345. Algal Percent Cover. Phaeophyta. Prince William Sound. Coarse Textured. July 1991. Overstory removed July 1990. (Continued.)

	Fucus Stipes (F										Mo	rphologic	al Gr	oup:	Coarse F	ilament	ous B	row	728			Di	ctyos:	iphon sp.	(A)			
Site Pair	Mvd	N	С	SE	N	0	SE	CV	D	P	N	С	SE	N	0	ge	CV	D	P	N	С	SE	N	0	SE		CA D	P
506C/506 1598C/1598 846C/846 1650C/1650	1 1 1	6 5 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	4 5 5 2	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000	6 5 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 5 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 5 2	0.00 0.00 0.00	0.00 0.00 0.00	0	- 0 - 0	1.000
Habitat Mea	ns		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	0	0	
Fisher's Stouffer'		Power			Power Power			P-val P-val		0.698 0.500	Power Power				z-50% z-50%		P-val		0.698 0.500	Power Power				r-50% r-50%			value value	
506C/506 1598C/1598 846C/846 1650C/1650	2 2 2		0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-		1.000 1.000 1.000	5 4 2 6	0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 5 5 1	0.00 0.00 0.00 0.00	0.00	-	0 0 0	1.000 1.000 1.000	5 4 2 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 5	0.00 0.00 0.00 0.00	0.00	0	- 0 - 0 - 0	1.000
Habitat Mea	ıns		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0,00		٥			0.00	0.00		0.00	0.00	0	0	
Fisher's Stouffer'		Power Power			Power Power			P-val P-val		0.655 0.500	Power Power				r-50% r-50%		P-val P-val		0.655 0.500	Power Power				r-50% r-50%			value value	0.655 0.500
506C/506 598C/1598 846C/846 1650C/1650	3	5 4 2	0.00 0.00 0.00	0.00	3	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	5 4 2 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000 1.000	5 4 2 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00 0.00	0.00	0	- 0 - 0 - 0	1.000
Habitat Mea	_		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	0	0	
Fisher's		Power			Power					0.698	Power Power				er-50% er-50%		P-val P-val		0.698 0.500	Power Power				r-50% r-50%				0.698 0.500

IAI DEAD FURNS BIANCS OF STADES WILLDOOK BISUES

At least one site pair p-value < 0.100 in opposite direction of overall tests. Direction of difference between habitat mans is different than direction of overall tasts.

x At least one site property Direction of different z Only one site pair. Fine Filamentous Browns (AE) (b) Morphological Group: Fine Filamentous Browns Myelophycus/Scytosiphon (A) (a) Þ C 9E O SE CV D CV D CV D P O 府田 C SE. Nvd N Site Pair 1.000 0.00 0.00 0.00 0.00 0 0.00 0.00 0 1.000 1.000 0.00 0.00 0.00 0.00 0.00 506C/506 0.00 4 0 0.00 0.00 1.000 1.000 0.00 a 0.00 0.00 5 0.00 0 0.00 0 1.000 0.00 0.00 0.00 1598C/1598 0.00 0.00 5 0,00 1.000 0.00 0.00 0.00 0.00 0 1.000 0.00 O 0.00 0.00 o 1.000 0.00 3 0.00 0.00 0.00 - 0 1.000 846C/846 0.00 0.00 0.00 1.000 0.00 0.00 0.00 0.00 0 0.00 0.00 - 0 1.000 0.00 0.00 1650C/1650 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0.00 0.00 0.00 0 0.00 Habitat Means Power-50% --- P-value 0.698 --- P-value 0.698 ---Power-50% Power --- P-value 0.698 Power-50% Power Fisher's Power ---Power-50% --- P-value 0.500 Power-50% --- P-value 0.500 Power --- P-value 0.500 Power Power-50% Stouffer's Power 0.00 0.00 0.00 1.000 1.000 0.00 - 0 0.00 0.00 0.00 - o 1.000 0.00 0.00 0.00 506C/506 0.00 0.00 0.00 - 0 1.000 - o 1.000 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 - o 1.000 0.00 5 1598C/1598 2 0.00 0.00 - 0 1.000 0.00 0.00 0.00 0.00 0.00 0.00 - o 1.000 0.00 0.00 5 0.00 o 1.000 0.00 846C/846 1.25 0.00 1.25 0.00 1.25 1.25 0.00 - o 0.00 0.00 1650C/1650 2 0.33 0.00 0.00 0 0.33 0.33 0.33 0.00 0.00 Ö 0.00 0.00 0.00 0.00 0 Habitat Means --- P-value 0.655 y --- P-value 0.655, Power Power-50% --- P-value 0.655 Power-50% Power-50% Power Fisher's Power Power-50% --- P-value 0.500 --- P-value 0.500 Power Power-50% --- P-value 0.500 Power Power-50% Stouffer's Power 0.00 - . 0.183 _ _ n 183 4.00 2.57 0.00 4.00 2.57 0.00 - o 1.000 0.00 0.00 0.00 0.00 506C/506 5 25.53 0.00 0.00 - . 0.127 48.75 48.75 25.53 0.00 0.00 - + 0.127 - o 1.000 0.00 0.00 0.00 0.00 1598C/1598 3 4 0.00 0.00 33.33 33.33 - - 0.423 - - 0.423 0.00 0.00 33.33 33.33 - 0 1.000 0.00 0.00 0.00 0.00 2 - - 0.374 846C/846 4.50 4.50 0.00 0.00 4.50 0.00 0.00 - + 0.374 4.50 - o 0.00 0.00 0.00 0.00 1.000 1650C/1650 3 5 8 33 14.33 8.15 8.33 14.33 8.15 8.33 8.33 0.00 0.00 0.00 O 0.00 Mahirat Means --- P-value 0.078 Power-50% --- P-value 0.078 Power --- P-value 0.698 Power Power-50% Power-50% --- P-value 0.077 Fisher's Power --- P-value 0.077 Power Power-50% ___ Power-50% --- P-value 0.500 Power Stouffor's Power-50% Double

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

z Only one site pair.

Table Co. No. Page 3, 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 Nyd N C SE N O SE C										Mor	pholog	ical	Group:	Bladed R	eđs					F	almar	ia spp.	(A)			
Site Pair	Myd	a N	С	SE	N	0	SE	CV	D	P	N	C	SE	N	0	SE	ÇV	D	P	N	С	8B	N	o	SE	-	CV D	P
1598C/1598 846C/846 1650C/1650	1	5 3 6	0.00	0.00	5	0.00 0.00 0.00	0.00) ~	0	1.000 1.000 1.000	5 3 6	0.00 0.00 0.00	0.00	5 5	0.00 0.00 0.00	0.00 0.00 0.00	_	0	1.000 1.000 1.000 1.000	5 3 6	0.00 0.00 0.00	0.00	5 5	0.00 0.00 0.00	0.00 0.00 0.00		- 0 - 0 - 0	1.000 1.000 1.000
Habitat Mear	ns		0.10	0.10		0.00	0.00)	4			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer's	ŝ	Power Power				r-50% r-50%		P-val P-val		0.477 0.498	Power Power				er-50% er-50%		P-valu P-valu		0.698 0.500	Power Power				r-50% r-50%				0.698 0.500
506C/506 1598C/1598 846C/846 1650C/1650	2 2 2 2	5 4 2 6	0.00 22.50 0.00 1.25	0.00 22.50 0.00 1.25	5	1.25 0.00 0.00 0.00	1.25 0.00 0.00) ~	+	0.391 0.391 1.000	5 4 2 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	4 5 5 1	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	o	1.000 1.000 1.000	5 4 2 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00 0.00	0.00)	- 0 - 0 - 0	1.000 1.000 1.000
Habitat Mear	nş		5.95	5,95		0.33	0.43	i	-			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer's	s	Power Power				r-50% r-50%				0.533 y 0.793	Power Power				er-50% er-50%		P-valu P-valu		0.655 0.500	Power Power				c-50% c-50%				0.655 0.500
506C/506 1598C/1598 846C/846 1650C/1650	3 3 3	5 4 2 5	0.00 0.00 0.00 19.00	0.00 0.00 0.00 19.00	5 3	8.33 0.00 0.00 0.00	8.33 0.00 0.00) ~) ~	0	0.423 1.000 1.000 0.374	5 4 2 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	3 5 3 2	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	5 4 2 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 3	0.00 0.00 0.00 0.00	0,00 0.00 0.00 0.00)	- 0 - 0 - 0	1.000 1.000 1.000 1.000
Habitat Mear	ns		4.75	4.75		2.07	2.07	,	+			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00)	o	
Fisher's Stouffer's	ŝ	Power Power				r-50% r-50%				0.580 0.416	Power Power				r-50% r-50%				0.698 0.500	Power Power			Power	-50% -50%				0.698 0.500

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

Table C 5.346, Page 1, December 15, 1994

			Morpholo	oical (Group:	Coarse	Filamen	tous R	eda			Crunt	osini	honia woo	444 (A)						Glo	ionele	is furca				
Site Pair	Mvc		С	SE	N	0	SE	CV I		N	c	SE	N N	0	SE	CV D			N								
Sice Pair	WAI	, D		44	N		96	C 4 1	, ,		·	96	N		35	CA D	_	Р	Ŋ	С	SE	N	0	SE	CV	D	P
506C/506 1598C/1598 846C/846 1650C/1650	1	6 5 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c	1.000	6 5 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- 0 - 0 - 0)	1.000 1.000 1.000 1.000	6 5 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mea	n.g		0.00	0.00		0.00	0.00	c)		0.00	0.00		0.00	0.00	0)			0.00	0.00)	0.00	0.00		0	
Fisher's Stouffer'	s	Power Power			Power Power				0.698	Power Power				er-50% er-50%		P-value P-value		0.698 0.500	Power Power				r-50% r-50%		P-va P-va		0.698 0.500
506C/506 1598C/1598 846C/846 1650C/1650	2	5 4 2 6	0.00 22.50 0.00 1.25	0.00 22.50 0.00 1.25	5	1.25 0.00 0.00 0.00	1.25 0.00 0.00	- H	0.391	5 4 2 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- 0 - 0 - 0	,	1.000 1.000 1.000	5 4 2 6	0.00 0.00 0.00 1.25	0.00 0.00 0.00	5 5	1.25 0.00 0.00 0.00	1.25 0.00 0.00	-	0	0.391 1.000 1.000
Habitat Mea	ns		5.95	5.95		0.33	0.43	-			0.00	0.00		0.00	0.00	٥)			0.33	0.33	3	0.33	0.43		_	
Fisher's Stouffer'	s	Power Power	-		Power Power				0.533 y	Power Fower				er-50% er-50%		?-value ?-value		0.655 0.500	Power Power				r-50% r-50%				0.419 y 0.498
506C/506 1598C/1598 846C/846 1650C/1650	3	5 4 2 5	0.00 0.00 0.00 19.00	0.00 0.00 0.00 19.00	5 3	0.00 0.00 0.00	0.00 0.00 0.00 0.00			5 4 2 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0	,	1.000 1.000 1.000 1.000	5 4 2 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	_	0	1.000 1.000 1.000 1.000
Habitat Mea	ns		4.75	4.75		0.00	0.00				0.00	0.00		0.00	0.00	٥	,			0.00	0.00)	0.00	0.00		0	
Fisher's Stouffer'	s	Power Power			Power Power				0.483 0.415	Power Power				er-50% er-50%		P-value P-value		0.698 0.500	Power Power				-50% -50%		P-val P-val		0.698 0.500

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

Table C-5.346, Algal Percent Cover, Rhodophyta, Prince William Sound. Coarse Textured. July 1991. Overstory removed July 1990. (Continued.)

			Ne	orhod	omela/	'Rhodomel	a. (P)	(a)					Odor	thal.	ia flocco	B& (P)					Mor	pholog	ical (Group: 8	accate :	Reds		
Site Pair	Mvd	N	С	SE	N	0	SE	СV	Đ	P	N	c	SE	N	0	SE	cv	ם	P	N	С	SE	N	o	SE	CV	D	P
506C/506 1598C/1598 846C/846 1650C/1650	1 1 1	6 5 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5	0.00 0.00 0.00	0.0 0.0 0.0	0 -	0	1.000 1.000 1.000 1.000	6 5 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 5 3 6	0.42 0.00 0.00 0.00	0.42 0.00 0.00 0.00	5 5	0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	0.363 1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00		0.00	0.00	0	0			0.00	0.00		0.00	0.00		0			0.10	0.10		0.00	0.00		F	
Fisher's Stouffer'	9	Power Power			Power Power			P-val		0.698 0.500	Power Power				er-50% er-50%		P-val P-val		0.698 0.500	Power Power				r-50% r-50%				0.477 0.498
506C/506 1598C/1598 846C/846 1650C/1650	2	5 4 2 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 5	0.00 0.00 0.00	0.00	0 -	0 0 0	1.000 1.000 1.000	5 4 2 6	0.00 22.50 0.00 0.00	0.00 22.50 0.00 0.00	5 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0 1 0 0	1.000 0.391 1.000	5 4 2 6	0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000
Habitat Mea	ıns		0.00	0.00		0.00	0.0	0	0			5.62	5.62		0.00	0.00		+			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	s	Power Power			Power Power			P-va P-va		0.655 0.500	Power Power				er-50% er-50%		P-val P-val		0.419 0.206	Power Power				r-50% r-50%				0.655 0.500
506C/506 1598C/1598 846C/846 1650C/1650	3	5 4 2 5	0.00 0.00 0.00 0.00	0,00 0.00 0.00 0.00	5 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00	0 -	0	1.000 1.000 1.000 1.000	5 4 2 5	0.00 0.00 0.00 19.00	0.00 0.00 0.00 19.00	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 0.374	5 4 2 5	0.00 0.00 0.00	0.00 0.00 0.00	5 3	4.17 0.00 0.00 0.00	4.17 0.00 0.00 0.00	- - -	0	0.423 1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00		0.00	0.00	0	0			4.75	4.75		0.00	0.00		_			0.00	0.00		1.05	1.05		-	
Fisher's Stouffer'	9	Power Power			Power			P-val P-val		0.698 0.500	Power Power				er-50% er-50%				0.483	Power Power				r-50% r-50%		P-va P-va		0.508 0.498

(a) Genera not separated.

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

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

	Halosaccion glandifo											Morpholo	gical	Group	: Fine	Pilament	ous Re	e De	ı		Pol	ysipho	nia/Pt	erosipho	nia (A)	(a)	+	
Site Pair	Mvd	N	С	SE	N	٥	SE	CA	D	Þ	N	c	SE	N	٥	SE	CV 1	D	P	N	С	SE	N	o	SE	ÇV	7 D	P
506C/506 1598C/1598 846C/846 1650C/1650	1	6 5 3 6	0.42 0.00 0.00 0.00	0.42 0.00 0.00 0.00	5 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00) –) –		0.363 1.000 1.000 1.000	6 5 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5	0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 6	0	1.000 1.000 1.000 1.000	6 5 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 5	0.00 0.00 0.00	0.00 0.00 0.00 0.00	· -	- 0	1.000 1.000 1.000 1.000
Habitat Mea	ins		0.10	0.10		0.00	0.0)	•			0.00	0.00		0.00	0.00		۵			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	\$	Power Power				r-50% r-50%				0.477 0.498	Power Power			Power Power			-value		0.698 0.500	Power Power			Power Power					0.698 0.500
506C/506 1598C/1598 846C/846 1650C/1650	2	5 4 2 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00) -	•	1.000 1.000 1.000	5 4 2 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- 4	Ġ	1.000 1.000 1.000	5 4 2 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 5	0.00 0.00 0.00	0.00 0.00 0.00	-	- 0	1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00		0.00	0.00)	0			0.00	0.00		0.00	0.00		٥			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	\$	Power Power				r-50% r-50%				0.655 0.500	Power Power			Power Power			?-valu		0.655 0.500	Power Power				-50% -50%				0.655 0.500
506C/506 1598C/1598 846C/846 1650C/1650	3	4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5	4.17 0.00 0.00 0.00	4.1 0.00 0.00 0.00) -) -	0	1.000	5 4 2 5	0.00 0.00 0.00 0.00	0.00 0.00 00.00 0.00	5	4.17 0.00 0.00 0.00	4.17 0.00 0.00 0.00	- 0	0	0.423 1.000 1.000 1.000	5 4 2 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 3	4.17 0.00 0.00 0.00	4.17 0.00 0.00 0.00	-	0	0.423 1.000 1.000
Habitat Mea	ns		0.00	0.00		1.05	1.0	,	-			0.00	0.00		1.05	1.05		_			0.00	0.00		1.05	1.05		-	
Fisher's Stouffer'	s	Power Power				r-50% r-50%				0.508 0.498	Power Power			Power Power			e-value e-value			Power Power			Power					0.508 0.498

(a) Genera ncc separated. X at least, one site pair p-value < 0.100 in opposite direction of overall tests, y lirection of difference between habitat means is different than direction of overall tests. 2 Only one site pair.

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; SF = standard error; D = direction of difference; + = control > oiled; - = control > o

	Balanomory													Lo	ottiidae								My	rtilu s				
							se	cv	D	P		C	SE	N	0	SE	CV	D	P	N	c	SE	N	0	SE	CV	D	P
Site Pair	Mvd	N	С	SE	N	0									0.00	0.00		^	1.000	6	0.00	0.00	4	2.50	2.50	-		0.391
506C/506 1598C/1598 846C/846	1	6 5 3	0.00 5.00 0.00 0.42	0.00 3.26 0.00 0.42	4 5 5 2	5.00 6.00 2.00 0.00	3,50 4.3 1.40 0.00	7 - 5 -	-	0.205 0.947 0.198 0.363	6 5 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 5 5 2	0.00 0.00 0.00	0.00	-	0	1.000 1.000 1.000	5 3 6	0.00	0.00	5 5	2.50 0.00 0.00	2.50 0.00 0.00	-	0	0.374 1.000 1.000
1650C/1650	_	6	1.35	0.93	2	3.25	2.3		-			0.00	0.00		0.00	0.00		0			0.00	0.00		1.25	1.25		-	
Fisher's Stouffer's		Power	0.090		Power Power	-50%				0.198	Power Power				r-50% r-50%		e-val		0.698 0.500	Power Power		-	Power	-50%		P-va	lue	0.310
506C/506 1598C/1598 846C/846	2 2 2	5 4 2	5.00 13.13 1.25 7.92	3.45 7.59 1.25 2.77		3.75 1.00 1.50 0.00	2.1 1.0 1.0	0 – 0 –	+	0.981 0.073 0.979	5 4 2 6	0.50 0.00 0.00 0.00	0.50 0.00 0.00 0.00	5	0.63 0.00 0.00 0.00	0.63 0.00 0.00	- - -	0	0.879 1.000 1.000	5 4 2 6	0.00 0.63 0.00 0.00	0.00 0.63 0.00	5	1.25 1.50 0.00 0.00	1.25 1.50 0.00) - 	-	0.391 0.832 1.000
1650C/1650 Habitat Mea	_	0	6.83	3.80		1.57	1.4	0	_			0.13	0.13		0.15	0.20		-			0.15	0.15		0.70	0.93			
Fisher's		Power Power	0.304		Power		0 450	P-va		0.153	Power Power				er-50%		P-val		0.620 0.500	Power Power				r-50% r-50%		P-Ag	e	0.380
Stouffer' 506C/506 1598C/1598 846C/846	3 3 3	5 4 2	9.00 0.63 25.00	7.27 0.63 15.00 4.83	3 5 3	0.00 5.50 13.33 31.25	0.0 3.3 6.8 28.7	0 -	+	0.222 0.224 0.480 0.455	5 4 2	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000	5 4 2 5	0.50 0.00 0.00 0.00	0.50 0.00 0.00) 5	0.83 0.00 0.00 0.00	0.83 0.00 0.00) -) -	0	0.725 1.000 1.000 1.000
1650C/1650 Habitat Mea	-	5	13.00	6.93		12.53	9.7		,	0.433	-	0.00	0.00		0.00	0.00		0			0.13	0.13		0.20	0.20		-	
Fisher's Stouffer'		Power Power	0.038		Power Power					0.433 y 0.867	Power Power				er-50% er-50%		P-val P-val		0.698 0.500	Power Power				r-50% r-50%				0.626

x At least one site pair p-value < 3,100 in opposite direction of overall tests. y Direction of difference between habitst means is different than direction of overall tests. z Only one site pair.

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					Litt	orini dae																_						P
ite Pair	Mvd	N	С	SE	N	0	SE	cv	D	P	N	С	ge	N	0	SE	cv	D	P	N	C	SE	N	0	SE	CV	D	<u> </u>
06C/506 598C/1598 46C/846 650C/1650	1	6 5 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000																		
abitat Mca	ıns		0.00	0.00		0.00	0.00		0											_			Danie	r-50%		P-va		
Fisher's Stouffer'		Power Power			Power			P-va P-va	lue	0.698 0.500	Power Power			Power Power						Power Power				z-50%		P-va		
06C/506 598C/1598 16C/846 550C/1650	2	5 4 2 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 5	0.00 0.00 0.00 0.00	0.00	-) -	0	1.000																		
bitat Mea	ans		0.00	0.00		0.00	0.00)	0														D	- = 0 %		P-va	lue	
Fisher's Stouffer'		Power Power				r-50% r-50%				0.655	Power Power			Power Power	:-50% :-50%		P-val P-val			Power Power				r-50% r-50%				
6C/506 98C/1598 6C/846 550C/1650	3	5 4 2 5	0.00 0.00 0.00	0.00 0.00 0.00	5 3	0.00 0.00 0.00 0.00	0.00) -) -	0	1.000 1.000 1.000 1.000																		
abitat Mea	ans		0.00	0.00		0.00	0.00)	0											_			Devie	r-50%		P-va	1110	
Fisher's Stouffer		Power				r-50% r-50%		P-va P-va	lue lue	0.698 0.500	Power Power				r-50% r-50%					Power Power				r-50%		P-va		

x At least one site pair p-value < 0.100 in opposite direction of 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. 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 = motor vertical drop; N = sample size; C : control mean; CV - coefficient of variation; SE = standard error; D = direction of difference; + : control > oiled; - = control < oiled; o = control = oiled; P = probability value; dasmes = insufficient data.

						Rock								Oi	led Rock									Mud					
Site Pair	Mvd	N	c	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	ÇV	D	P	N	2	SE	N	0	ge		CA L	,	P
506C/506 1598C/1598 846C/846 1650C/1650	1	6 5 3 6	95.00 92.50 95.83 98.33	1.94 4.74 3.00 1.24	5 5	84.38 91.50 96.00 200.00	9.0 6.7 1.5 0.0	3 -	+	0.481 0.910 0.887 0.194	6 5 3 6	0.00 0.00 0.00 0.00	0.00	5 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 5 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 5	0.00 0.00 0.00 0.00	0.0 0.0 0.0	0	- 0	1.	.000 .000 .000
Habitat Mea	ns		95.40	2.70		92.98	4.3	3	-			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.0	0	a		
Fisher's Stouffer'	a	Power Power				er-50% er-50%				0.428 y 0.403	Power Power				r-50% r-50%				0.698 0.500	Power Power				r-50% r-50%			value value		
506C/506 1598C/1598 846C/846 1650C/1650	2	5 4 2 6	92.50 60.63 98.75 88.75	5.81 18.58 1.25 2.87	5 5	85.63 97.50 90.50 100.00	5.24 2.50 8.89) –) –	-	0.200 0.024 0.698	5 4 2 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 5	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000	5 4 2 6	0 00 0 00 0 00	0.00	5	0.00 0.00 0.00 0.00	0.0	0	- 0 - 0 - 0	1.	.000
Habitat Mea	ກຮ		85.17	7.15		93.40	5.53	3	+			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.0	0	0		
Fisher's Stouffer's		Power Power				er-50% er-50%				0.347 _{xy} 0.980	Power Power				r-50% r-50%				0.655 0.500	Power Power				r-50¥ r-50%		p-1	value value		
506C/506 1598C/1598 846C/846 1650C/1650	3 3 3	5 4 2 5	49.00 47.50 72.50 55.00	14.63 23.32 17.50 18.35	5	47.50 91.50 53.33 68.75	21.84 4.72 26.71 28.75		+	0.994 0.062 0.588 0.647	5 4 2 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	5 4 2 5	0 00 0 00 0 00 0 00	0.00 0.00 0.00	5	0.00 0.00 0.00 0.00	0.0 0.0 0.0	0	- 0	1.	000
Habitat Mear	ns		56.00	18.45		65.28	20.50	İ	-			0.00	0.00		0.00	0.00		0			0 00	0.00		0.00	0.0	0	0		
Fisher's Stouffer's		Power Power				er-50% er-50%	0.446	P-val P-val			Power Power				r-50% r-50%				0,698 0.500	Power Power			Power Power	c-50% c-50%			value value		

 \times At least one site pair p-value < 0.100 in opposize direction of overall cests. y Direction of difference between tabilat reams is different than direction of overall tests. 2 Only one wite pair.

Table C-5.348. Page 1. December 15, 1994

						Sand								Shel	1 Fragment	te								Water					
Site Pair	Mvd	N	С	SE	N	0	SE	CA	D	P	N	c	SE	N	0	SE	CV :	D	P	N	ť	SE	Ŋ	0	SE		CV E		P
506C/506 1598C/1598 846C/846 1650C/1650	1 2 1	6 5 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 5 2	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 5 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 5	0.00 0.00 0.00	0.00 0.00 0.00 0.00	- (O O	1.000 1.000 1.000 1.000	6 5 3 6	0 00 0 00 0 00 0 00	0.00 0.00 0.00 0.00	5 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	0	- 0 - 0 - 0	1.	000
Habitat Mear:	s		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0 00	0.00		0.00	0.00	0	0		
Fisher's Stouffer's		Power Fower			Power Power			P-valu P-valu			Power Power				er-50% er-50%		-value		0.698 0.500	Power Power				±-50% ±-50%			value value		
506C/506 1598C/1598 846C/846 1650C/1650	2 2 2 2	4 2	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000	5 4 2 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	- (0	1.000	5 4 2 6	0 00 0 00 0 00 0 00	0.00 0.00 0.00 0.00	5 5	0.00 0.00 0.00 0.00	0.00)	- 0 - 0 - 0	1.	000
Habitat Mean	s		0.00	0.00		0.00	0.00		٥			0.00	0.00		0.00	0.00		0			0 00	0.00		0.00	0.00)	0		
Fisher's Stouffer's		Power Power			Power Power			P-valu P-valu			Power Power				er-50% er-50%		-value		0.655	Power Power				c-50 % c-50 %			value value		
506C/506 1598C/1598 846C/846 1650C/1650	3	5 4 2 5	3.50 0.00 0.00 0.00	3.50 0.00 0.00 0.00		0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	0.374 1.000 1.000	5 4 2 5	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	- 6	0	1.000 1.000 1.000 1.000	5 4 2 5	0.00 00.0 00 00 00 00	0.00 0.00 0.00	5 3	0.00 0.00 0.00	0.00 0.00 0.00		- 0		000
Habitat Means	\$		0.88	0.88		0.00	0.00		+			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	1	0		
Fisher's Stouffer's		Power Power			Power			P-valu P-valu			Power				er-50% er-50%		-valud -valud		0.698 0.500	Power Power			Power Power				value value		

x At least one site pair p-value < 0.100 in opposite direction of overall tests, y Direction of difference between babitat Fears is different than direction of overall tests. Z Only one site pair.

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

				Zo	Stera	/Phyllosp	rq1×		_				Sar	nd and Mud	ı							Tota	1 Substra	ate			
Site Pair	Mvc	i n	С	9e	N	٥	SE	CV	D P	И	С	SE	N	0	SE	ÇV D		P	Ŋ	С	2E	Ŋ	0	82		v D	P
506C/506 1598C/1598 846C/846 1650C/1650	1	3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	o 1.0 o 1.0 o 1.0	00 5 00 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0	1.	.000 .000 .000	6 3 6	95.00 92.50 95.83 98.33	1.94 4.74 3.00 1.24	5 5	84.38 91.50 96.00 100.00	9.04 6.78 1.50 0.00	3	- + - ; 	0.481 0.910 0.887 0.194
Habitat Mea	ns		0.00	0.00		0.00	0.00		o		0.00	0.00		0.00	0.00	0				95.40	2.70		92.98	4.33	3	-	
Fisher's Stouffer'	ş	Power Power				r-50% r-50%		P-valu P-valu	e 0.6 e 0.5					er-50% er-50%		value value		.698 .500	Power Power	0.02			er-50% er-50%				0.428 y 0.403
506C/506 1598C/1598 846C/846 1650C/1650	2	5 4 2 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0 1.0 0 1.0 0 1.0	00 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- 0 - 0 - 0	1.	.000 .000 .000	5426	92.50 60.63 98.75 88.75	5.81 18.58 1.25 2.87	5	85.63 97.50 90.50 100.00	5.24 2.50 8.89) }	- ·	0.200 0.024 0.698
Habitat Mea	ns		0.00	0,00		0.00	0.00		0		0.00	0.00		0.00	0.00	0				85.17	7.15		93.40	5.53	,		
Fisher's Stouffer'	5	Power Power				r-50% r-50%			e 0.6 e 0.5					er-50% er-50%		-value -value		.655 .500	Power Power	0.03			er-50% er-50%				0.347xy 0.980
506C/506 1598C/1598 846C/846 1650C/1650	3	5 4 2 5	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	_	0 1.0 0 1.0 0 1.0 0 1.0	00 4 00 2	3.50 0.00 0.00 0.00	3.50 0.00 0.00 0.00	5 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- ₊ 0 - 0 - 0	1.	.374 .000 .000 .000	5425	52.50 47.50 72.50 55.00	16.22 23.32 17.50 18.35	5 3	47.50 91.50 53.33 68.75	21.84 4.72 26.71 28.75			0.910 0.062 0.588 0.647
Habitat Mea	ns		0.00	0.00		0.00	0.00		0		0.88	0.88		0.00	0.00	+				56.88	18.85		65.28	20.50)	-	
Fisher's Stouffer'		Power Power				r-50% r-50%			e 0.6 e 0.5					er-50% er-50%		-value -value		.483 .498	Power Power	0.17			er-50% er-50%				0.195 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-5.349. 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.

		. 6 0.12 0.08 4 0.00 0.00 - + 0 0.06 0.04 0.00 0.00 + Power Power-50% P-value Power Power-50% P-value							A1ga	1 Tax	a Richne	es (b)							Tot	al Algae								
Site Pair	Mvd	N	С	SE	N	0	SE	CV	D	P	N	c	SE	N	0	SE	CV I	-	P	N	С	SE	N	0	SE	C	ם ע	P
P15.1C/P15.1 2397C/20809									+	0.188	5 6	0,40 1,33	0.24		0.00	0.00	- +	. 0	.082	5 6	10.00 27.92	8.25 15.10		0.00	0.00	-	- - ,	0.077
Habitat Mear	15		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 Stouffer's											Power Power			Power			P-value P-value		z	<i>Power</i> Power				r-50% r-50%				z
P15.1C/P15.1 2397C/20809			0.00	0.00		0.05	0.05	-		0.474	2 2	0.50 1.50	0.50 0.50		0.50	0.34	- +	0	.184	2 2	3.75 55.00	3.75 12.50		4.58	2.92		- +	0.004
Rabitet Mean	ıs		0.07	0.07		0.05	0.05		4			1.00	0.50		0.50	0.34	-				29.40	8.15		1.60	2,90)	+	
Fisher's Stouffer's		Power Power				r-50% r-50%		P-val P-val			Power Power			Power Power			?-value ?-value		z	Power Power				c-50% c-50%			alue alue	s
PL5.1C/P15.1 2397C/20809			0.25	0.13		0.10	0.10	-	+	0.410	0	2.33	1.20		1.00	0.58	- +	. 0	.374	0 3	65.00	32.53		8.33	6.01			0.218
Habitat Mean	ıs		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 Stouffer's		Power Power				r-50% r-50%		P-val P-val			Power Power			Power Power			e-value e-value		z	Power Power		 		:-50% :-50%				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.</p>
y birection of difference between babitat means is different than direction of overal) tests.
z Only one site pair.

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	09 1 6 17.72 14.58 4 0.00 0.00 cans 8.85 7.30 0.00 0.00 s Power Power-50% P- 7's Power Power-50% P- 5.1 2 2 0.00 0.00 0 09 2 2 0.00 0.00 6 0.00 0.00 cans 0.00 0.00 0.00 0.00														Rock							Peren	nials (E	(י		
Site Pair	Mvd	N	c	SE	N	0	SE	CV	D	P	N	c	SE	N	O	SE	CV D	P		-			-	SE		
2397¢/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 Mear	ns		8.85	7.30		0.00	0.00		+			41.15	16.45		100.00	0.00	-			16.05	11.90	ł	0.00	0.00		
Fisher's Stouffer's								P-val P-val		;	Power Power				er-50% er-50%		P-value P-value		z Power Power			Power Power			P-value P-value	·
P15.1C/P15.2 2397C/20809									o	1.000	2	0.00 45.00	0.00		95.42	2.92		0.004	2 2	3.75 48.75	3.75 18.75		3.75	2.56		0.006
Habitat Mear	ns		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 Stouffer's		Power Power				er-50% er-50%		P-va P-va		;	Power Power				er-50% er-50%		P-value P-value		2 Power Power			Power Power	-50% -50%		P-value P-value	z
P15.1C/P15.1 2397C/20809			2,50	2.50		2.50	1.44	<u>-</u>	0	0.771	0 3	31.67	30.43		89.17	4.64		0,138	0	3.33	1.67		1.67	1.67		0.519
Habitat Mear	າຣ		2.50	2.50		2.50	1.40	I	0			31.70	30.40		89.20	4.60	-			3.30	1.70	ı	1.70	1.70	-	
Fisher's Stouffer's		Power Power				er-50% er-50%		P-val P- v al		;	Power Power				er-50% er-50%		P-value P-value		z Power Power			Power Power			P-value 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 then direction of overall tests. Solly one site pair.

Table C-5.349. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Estuarine. June 1991. Overstory removed June 1990. (Continued.)

Ephemerals (AE) Annuals (A) 92 CV D P N C SE 0 SE CV D P N D SE CV D C SB Site Pair Mvd N SE 0 c 0.00 0 4.17 4 0.00 P15.1C/P15.1 1 0.00 0.00 0.00 0.00 - + 0.190 4.17 4 0.00 0.00 - + 0.190 6 5.83 5.83 2397C/20809 1 6 2.10 0.00 0.00 2.90 2.90 2.10 0.00 0.00 Habitat Means Power-50% --- P-value Power-50% --- P-value ---Power. - ----- z Power Power-50% --- P-value Fisher's Power Power-50% --- P-value ------Power Power-50% --- P-value ---Power Stouffer's Power Power-50% --- P-value 0.00 0.00 P15.1C/P15.1 2 0.00 0.00 - + 0.500 6.25 6.25 0.00 0.00 0.83 - + 0.239 2 0.83 2397C/20809 2 6.25 6.25 6 0.00 0.00 0.80 0.80 3.15 3.15 3.15 Habitat Means 3.15 Power-50% --- P-value Power-50% --- P-value Power --- P-value --- z Power Fisher's ---Power-50% Power Power-50% --- P-value Power Power-50% --- P-value Power-50% --- P-value Power Stouffer's Power P15.1C/P15.1 3 O 6.67 6.67 - + 0.198 61.67 30.87 30.87 6.67 - + 0.198 61.67 2397C/20809 3 61.70 30.90 6.70 6.70 6.70 Habitat Means 61.70 30.90 Power-50% --- P-value Power-50% --- P-value Power Power-50% --- P-value --- 2 Power ---Fisher's Power ---Power-50% --- P-value Power-50% --- P-value Power --- Power Stouffer's Power Power-50% --- P-value

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

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.

				7	otal (Chlorophy	/ta					Morr	hologi	ical (Froup: B	laded Gr	eens	_			Bla	ded G	eens (AE) (a)			
Site Pair N	tvd	N	С	SE	N	0	SE	CV	D	P	N	c	SE	N	0	SE	ÇV D	P	N	С	SE	N	0	SE	CV	D	P
P15.1C/P15.1 2397C/20809		5 6	0.00 2.50	0.00 1.71		0.00	0.00	-		0.183	5 6	0.00 2.08	0.00 1.64		0.00	0.00	- +	0.204	5 6	0.00 2.08	0.00 1.64		0.00	0.00		+ (0.204
Habitat Means	∋		1.25	0.85		0.00	0.00		+			1.05	0.80		0.00	0.00	1			1.05	0.80		0.00	0.00		+	
Fisher's Stouffer's		Power Power			Power Power			-val -val			z Power Power				r-50% r-50%		P-value P-value		z Power Power			Power		F			z
P15.1C/P15.1 2397C/20809		2	0.00	0.00		0.00	0.00	-	0	1.000	2 2	0.00	0.00		0.00	0.00	- - o	1.000	2 2	0.00	0.00		0.00	0.00	-	o :	1.000
Habitat Means	3.		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power			Power Power			-val			z Power Power				r-50% r-50%		P-value P-value		2 Power Power			Power Power		F			z
P15.1C/P15.1 2397C/20809	3	0 3	30.83	21.62		3.33	3.33	-		0.285	0 3	26.67	17.64		3.33	3.33	- +	0.284	0 3	26.67	17.64	0 3	3.33	3.33	-	+ (0.284
Habitat Means	3		30.80	21.60		3.30	3.30		+			26.70	17.60		3.30	3.30	+			26.70	17.60		3.30	3.30		۲	
Fisher's Stouffer's		Power Power			Power Power			-val			Power Power				r-50% r-50%		P-value P-value		z Power Power			Power Power	-50%	P			z

(a) Kornmannia, Mohostroma, Ulva end Ulvaria.

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

** Direction of difference between babitat means is different than direction of overall tests.

** Only one site pair.

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	Morphological Group: Fine Filamentous Greens												Ac:	rosip	honia sp.	(A)				Ci	aetomo	rpha/R	hizoclon	ium (A)	(a)		
Site Pair	Nvd	N	С	SE	N	0	SE	Çν	D	P	N	С	SE	N	0	SE	CV D	P	N	С	SE	N	0	SE	ÇV 1	0	P
P15.1C/P15.2 2397C/20809		5 6	0.00	0.00		0,00	0.00	:	0	1.000	5 6	0.00	0.00		0.00	0.00		1.000	5 6	0.00	0.00 0.00		0.00	0.00	- (> 1	.000
Habitat Mean	ทธ		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	0			0.00	0.00		0.00	0.00)	
Fisher's Stouffer's		Power Power			Power Power			P-val: P-val:			z Power Power				r-50% r-50%		P-value P-value					Powe:		P	-value		z
P15.1C/P15.2 2397C/20809			0.00	0.00		0.00	0.00	-	0	1.000	2 2	0.00	0.00		0.00	0.00	- - 0	1.000	2 2	0.00	0.00		0.00	0.00	- (o 1	.000
Habitat Mean	ns		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	o			0.00	0.00		0.00	0.00	(5	
Fisher's Stouffer's		Power Power			Power Power			P-val			z Power Power				r-50% r-50%		P-value P-value		z Power Power			Powe:	c-50% c-50%	P	-value		z
P15.1C/P15.2 2397C/20809		0	4.17	4.17		0.00	0.00	~	+	0.423	0 3	0.00	0.00	•	0.00	0.00	- - o	1.000	0	0.00	0.00		0.00	0,00	- (. 1	.000
Habitat Mean	ns		4.20	4.20		0.00	0.00		F			0.00	0.00		0.00	0.00	٥			0.00	0.00		0.00	0.00	c)	
Fisher's Stouffer's		Power Power			Power Power			P-valı P-valı			z Power Power				r-50% r-50%		P-value P-value					Power Power	r-50% r-50%	Þ	-value		z

(a) Genera not emphyrated. ** 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. **2 Only one site pair.

Table C-5.350. Algal Percent Cover. Chlorophyta. Prince William Sound. Estuarine. June 1991. Overstory removed June 1990. (Continued.)

				C1	adoph	ora sp. ((AE)				Mo	rphologic	al Gro	oup:	Tubular	and Saco	cate G	reer	o.g		83	idingi	La/Ent	eromorpha	1 (AE) (a)		
Site Pair	Mvd	N	c	SE	N	0	SE	CA	D	P	N	С	SB	N	0	SE	CV I	,	P	N	С	SE	N	0	SE	CV	D	P
P15.1C/P15.1 2397C/20809			0.00	0.00		0.00	0.00	-	o	1.000	5 6	0.00	0.00		0.00	0.00		+ (0.363	5 6	0.00	0.00	4	0.00	0.00	-	+	0.363
Habitat Mean	ns		0.00	0.00		0.00	0.00		0			0.20	0.20		0.00	0.00		4			0.20	0.20		0.00	0.00		*	
Fisher's Stouffer's		Power Power				r-50% r-50%		-val			z Power Power			Power Power			P-value P-value			2 Power Power			Power Power			-valu -valu		z
P15.1C/P15.3			0.00	0.00		0.00	0.00	-	0	1.000	2 2	0.00	0.00		0.00	0.00		p :	1.000	2	0.00	0.00	6	0.00	0.00	-	0	1.000
Habitat Mean			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		Ç			0.00	0.00	•	0.00	0.00		0	
Fisher's Stouffer's		Power Power				r-50% r-50%		P-val			z Power Power			Power Power			P-value P-value			z Power Power			Power		3			z
P15.1C/P15.	1 3		4.17	4.17		0.00	0.00	-	+	0.423	0 3	0.00	0.00	0 3	0.00	0.00		ο :	1.000	3	0.00	0.00	3	0.00	0.00	-	0	1.000
Habitat Mean	ns		4.20	4.20		0.00	0.00		4			0.00	0.00		0.00	0.00	•	Ó			0.00	0.00	1	0.00	0.00		Ð	
Fisher's Scouffer's	s	Power Power				r-50% r-50%	!	P-val			2 Power Power			Power			P-valu P-valu			z Power Power				r-50% r-50%	1	-valu -valu		z

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⁽s) Genera not seperated.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.</p>
y Direction of difference between habitat means is different then direction of overall rests.
2 Only one site pair.

Table C-5.351, Algal Percent Cover. Phacophyta. 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.

	9 1 6 25.42 15.08 4 0.00 0.00 - ans 17.70 11.70 0.00 0.00 Power Power-50\(\frac{1}{2}\) P-valu 1 2 2 3.75 3.75 0 9 2 2 55.00 12.50 6 1.25 1.25 -					Mox	phologi	cal G	roup: B	laded Br	rowns					F	rucus :	cottonii	{P)								
Dair	W4	w		69	ы	^	a p	נויי	п	ъ	N		av	ы	n	O P	רט די	,	•	N	~	89	w	^	0 P	ATT.	
2397C/20809	1		25.42	15.08	4	0.00	0.00		+	0.088	6	22.08	15.46	4	0.00	0.00		. 0.	.122	6	00.00	0.00	1 4	0.00	0.00	- o	
Habitat Mea	ns		17.70	11.70		0.00	0.00		-			16.05	11.90		0.00	0.00	-				0.75	0.75	,	0.00	0.00	0	
Fisher's Stouffer'											z Power Power				r-50% r-50%		P-value P-value			z Power Power				r-50% r-50%		P-value P-value	yz
P15.1C/P15. 2397C/20809								-	+	0.000	2 2	3.75 48.75	3.75 18.75		1.25	1.25		. 0.	.001	2 2	0.00	0.00		0.00	0.00		
Habitat Mea	ns		29.40	8.15		1.30	1.30		ŧ			26.30	11.30		1.30	1.30	+				0.00	0.00	1	0.00	0.00	0	
Fisher's Stouffer'		Power Power			Power Power			P-val P-val			Power Power				r-50% r-50%		P-value P-value			z Power Power				c-50%		P-value P-value	
P15.1C/P15. 2397C/20809			32.50	22.22		5.00	2.89	-		0.355	0	1.67	1.67		1.67	1.67		1.	.000	0	0.00	0.00		0.00	0.00		
Habitat Mea	ns		32.50	22.20		5.00	2.90		+			1.70	1.70		1.70	1.70	c	,			0.00	0.00	i	0.00	0.00	0	
Fisher's Scouffer'		Power Power			Power Power			P-vel P-val			Power Power				r-50% r-50%		P-valuo P-value		:	Power Power				r-50% r-50%		P-value P-value	

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

Table C-5.351. Page 1. December 15, 1994

				Tota:	LFucu	s gardne	eri (P)					Ad	lult Fu	cus ga	rdneri (P) (> 2	cm)				Juve	nile E	ucus (ardneri	(P) (<=	2cm)	
Sira Pair	Mod 1	a .	c	SR	N	n	SE	CA	מ	р	N	c	SE	N	٥	SK	CV	ם	9 1	q	c	SE	N	n	SE	ריט ז	n P
2397C/20809	1 (6 2	2.08	15.46	4	0.00	0.00	-	1		6	22.08	15.46	4	0.00	0.00	-	+		5	0.00	0.00) 4	0.00	0.00	- 0	1.000
Habitat Mea	ns	1	5,30	12.00		0.00	0.00		+			15.30	12.00		0.00	0.00		÷			0.00	0.00)	0.00	0.00	(>
Fisher's Stouffer's		ower			Power Power		1 1	P-valu P-valu			Power Power			Power Power			P-valu P-valu			wer				-50% -50%		P-value P-value	
⊋15.1C/P15. 2397C/20809			3.75 8.75	3.75 18.75		1.25	1.25	-			2	3.75 47.50	3.75 20.00		1.25	1.25		_		2	0.00 1.25	0.00		0.00	0.00	-	0.500
Habitat Mea	ns	2	6.30	11.30		1.30	1.30		4			25.65	11.90		1.30	1.30		+			0.65	0.65	5	0.00	0.00	1	
Fisher's Stouffer'		ower			Power Power			P-valı P-valı			Power Power			Power Power			P-valu P-valu			ower				c-50% c-50%		P-value P-value	
P15.1C/P15. 2397C/20809			1.67	1.67	0	1.67	1.67	-	o		0 3	1.67	1.67	0	1.67	1.67		0) }	0.00	0.00		0.00	0.00	- 0	1.000
Habitat Mea	ns		1.70	1.70		1,70	1.70		0			1.70	1.70		1.70	1.70		0			0.00	0.00)	0.00	0.00	c	ı
Fisher's Stouffer's		ower	-		Power Power]	P-valu P-valu			Power Power			Power Power			P-valu P-valu			ower				r-50% r-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 habitst means is different than direction of overall tests. Z Only one site pair.

Table C-5.351. Algal Percent Cover. Phaeophyta. Prince William Sound. Estuarine. June 1991. Overstory removed June 1998. (Continued.)

				Fn	cua St	ipes (P)	(a)				Mo	rphologi	cal Gr	oup:	Coarse F	ilament	ous B	rowi	D8			Die	ctyoni	lphon sp.	(A)			
Site Pair 1	MVd N		С	SE	N	0	SE	ĊV	Ď	P	N	c	SE	N	0	SE	CA	D	P	N	С	SE	N	0	SE	cv	D	P
P15.1C/P15.1	1 5 1 6		0.00	0.00		0.00	0.00		0	1.000	5 6	0.00	0.00		0.00	0.00		o	1.000	5 6	0.00	0.00		0.00	0.00			1.000
Habitat Mean			0.00	0.00		0.00	0.00)	0			0.00	0.00		0.00	0.00		Q			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	201	ver				c-50% c-50%		P-va P-va			Power Power				2=50% 2=50%		P-valı P-valı			Power Power				r-50% r-50%		-valu		z
P15.1C/P15.1 2397C/20809	2 2		0.00	0.00		0.00	0.0		0	1.000	2 2	0.00	0.00		0.00	0.00		0	1.000	2	0.00	0.00		0.00	0.00	-	0	1.000
Habitat Mean			0.00	0.00		0.00	0.0)	0			0.00	0.00		0.00	0.00	,	0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Por	wer wer				r-50% r-50%		P-va P-va			z Power Power				er-50% er-50%		P-val			Power Power				r-50% r-50%		-valu		z
P15.1C/P15.1 2397C/20809	. 3 0		0.00	0.00		0.00	0.0		٥	1.000	0	0.00	0.00	•	0.00	0.00		0	1.000	0 3	0.00	0.00	3	0.00	0.00			1.000
Habitat Mean			0.00	0.00)	0.00	0.0	0	o			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	z
Fisher's Stouffer's		wer				r-50% r-50%		P-va P-va		. , -	Power Power				er-50% er-50%		P-val P-val			Power Power				r-50% r-50%		P-val: P-val:		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.

Fine Filamentous Browns (AE) (b) Morphological Group: Fine Filamentous Browns Myelophycus/Scytosiphon (A) (a) ---ŒΤ SE ÷ --N SE a CV D P 0 9E c Site Pair Mvd N 0.00 0.00 0.00 n. nn - + 0.363 0.00 0.00 0.00 3.33 3.33 4 P15.1C/P15.1 1 2397C/20809 1 0.00 0.00 - + 0.363 3.33 4 1,000 3.33 0.00 0.00 0 0.00 0.00 4 0.00 0.00 1.65 1.65 0.00 1.65 1.65 0.00 0.00 0.00 0 0,00 Habitat Means 0.00 Power-50% --- P-value --- : Power --- P-value Power-50% Power-50% --- P-value --- z Power --- P-value Power-50% Power Power ___ Fisher's Power-50% --- P.value Power-50% P-value ---Power Stouffer's Power ---0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 - . 0.500 P15.1C/P15.1 2 0.00 0.500 6.25 6.25 0.00 6.25 6.25 - 0 1,000 0.00 0.00 0.00 0.00 2397C/20809 2 3.15 0.00 0.00 3.15 0.00 0.00 3.15 3.15 0.00 0 0.00 0.00 0.00 Habitat Means Power-50% --- P-value --- , --- P-value --- z Power Power-50% P~value --- z Power Power-50% Power-50% ---P-value ---Fisher's Power --- P-value ---Power Power-50% --- P-value Power ---Power-50% Stouffer's Power - - 0.273 0.273 30.83 20.63 3.33 3.33 P15.1C/P15.1 3 3.33 3.33 - + 30.83 20.63 0.00 1.000 3 0.00 ~ 0 0.00 3 0.00 3 2397C/20809 3 3.30 20.60 3,30 30.80 3.30 20.60 3.30 30.80 0.00 0.00 0.00 0.00 Habitat Means --- P-value Power-50% --- z Power --- P-value Power-50% --- P-value --- z Power Power-50% --- P-value ____ Power-50% Fisher's Power --- Power Power-50% --- P-value Power-50% --- P-value ___ Power ---

(a) Genera :soc aspara.ed.

|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.

y Direction of different z Only one site pair.

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Table C-5.351. Algal Percent Cover, Phaeophyta, Prince William Sound. Estuarine, June 1991, Overstory removed June 1990. (Continued.)

			Morph	ologia	al Gr	oup: Sa	ccate B	LOMUR			I	Leather	sia/C	olpomenia	(A) (a))											
ite Pair	Mvd	N		SE	N	0	SE	CV 1	D P	N	С	SE	N	0	SE	CA	D	P	N	¢	SE	И	0	SE	CΛ	D	P
15.1¢/P15.1 397¢/20809	1	5 6	0.00	0.00		0.00	0.00		0 1.000		0.00	0.00		0.00	0.00		0	1.000									
abitat Mean		-	0.00	0.00		0.00	0.00		0		0.00	0.00		0.00	0.00		0		_			Power	_5.0 \$		P-valu	e	
Fisher's Stouffer's	I	Sower Sower			Power			P-valu P-valu		z Power Power				r-50%		P-valu P-valu			Power Power			Power			P-val.		
15.1C/P15.1 397C/20809	1 2		0.00	0.00		0.00	0.00		o 1.000		0.00	0.00		0.00	0.00	-		1.000									
abitat Mean			0.00	0.00		0.00	0.00)	Φ		0.00	0.00		0.00	0.00		0						= 0.9		P-valu		
Fisher's Stouffer's	1	Power Power			Power			P-valu P-valu						er-50% er-50%		P-valu P-valu			Power Power			Power Power			P-val		
15,1C/P15.1 397C/20809	1 3		0.00	0.00		0.00	0.00		0 1.00		0.00	0.00	3	0.00	0.00	-		1.000									
abitat Mear			0.00	0.00		0.00	0.00)	0		0.00	0.00		0.00	0.00		0					Power	- = 0.9-		P-val	16	
risher's		Power			Power	-50%		P-valu P-valu						or-50% er-50%		P-val: P-val:			Power Power			Power			P val		

⁽a) Conera not separated.

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

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; 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	Rhodophy	ta					Mor	pholog	ical	Group: 1	Sladed R	Reds						Porphy	ra sp. (A)			
Site Pair M	vd N	С	SE	N	0	SE	cv	D	P	N	c	ŠE	N	0	SE	CV I	D	P	N	С	SE	N	0	SE	ĊΛ	D	P
P15.1C/P15.1 2397C/20809		0.00	0.00		0.00	0.00	-	0	1.000	5 6	0.00	0.00		0.00	0.00		o :	1,000	5	0.00	0.00		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			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Power Power			Power Power		P	-val		:	Power Power				er-50 % er-50 %		P-value P-value		z	Power Power			Power Power	-50% -50%		-va:		z
P15.1C/P15.1 2397C/20809		0.00	0.00		3.33	2.47	-	_	0.195	2 2	0,00	0.00		0.00	0.00		0 :	1.000	2 2	0.00	0.00		0.00	0.00	-	0	1.000
Habitat Means		0.00	0.00		3.30	2.50		-			0,00	0.00		0.00	0.00		Þ			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Power Power			Power Power		F	-val		:	Power Power				er-50% er-50%		P-valu P-valu		9	Power Power			Power			-va -va		z =
P15.1C/P15.1 2397C/20809		1.67	1.67		0.00	0.00	-	+	0.423	0 3	0.00	0.00	0 3	0.00	0.00	-	о :	1.000	0 3	0.00	0.00		0.00	0.00	-	ō	1.000
Habitat Means		1.70	1.70		0.00	0.00		+			0,00	0.00		0.00	0.00	1	0			0.00	0.00		0.00	0.00		О	
Fisher's Stouffer's	Power Power			Power Power			-val		:	Power Power				r-50% r-50%		P-value P-value		7	Power Power			Power Power		P	-va -va		z

x At least one site past p-value < 0.100 in opposite direction of overall tests.</p>
y Direction of difference between habital 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									.0			Crypt	osipl	nomia wood	dii (A)						Glo:	iopelt	is furca	ca (A)			
Site Pair P	Mva	N	С	SE	N	0	SE	ÇV	D	P	Ŋ	С	SE	N	0	SE	CV D	P		N	С	SE	И	0	SE	CV	D	P
P15.1C/P15.1 2397C/20809		5 6	0.00	0.00		0.00	0.00	-	0	1.000	5 6	0.00	0.00		0.00	0.00	- - o	1.00	-	5	0.00	0.00		0.00	0.00	-	0	1.000
Habitat Means	ş		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	0				0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power			Power Power		F	-val -val			<pre>Power Power</pre>				r-50% r-50%		?-value ?-value			ower				r-50% r-50%		P-val P-val		z
P15.1C/P15.1 2397C/20809			0.00	0.00		3.33	2.47	-	_	0.195	2 2	0.00	0.00		0.00	0.00	- - o		- 2	2 2	0.00	0.00		0.83	0.83	_	-	0.363
Habitat Means	9		0.00	0.00		3.30	2.50		-			0.00	0.00		0.00	0.00	0				0.00	0.00		0.80	0.80		-	
Fisher's Stouffer's		Power			Power Power			-val -val			z Power Power				r-50% r-50%		P-value P-value			ower				r-50% r-50%		P-val P-val		z
P15.1C/P15.1 2397C/20809	3	0 3	1.67	1.67		0.00	0.00	-	+	0,423	0 3	0.00	0.00	•	0,00	0.00	- - o	1.00	,	3	0.00	0.00		0.00	0.00	-	0	1.000
Habitat Means	8		1.70	1.70		0.00	0.00		+			0.00	0.00		0.00	0.00	0				0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power			Power Power		F	-val		- 	z Power Power				r-50% r-50%		P-value P-value			ower				r-50% r-50%	I	P-val P-val		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-5.352. Algal Percent Cover. Rhodophyta. Prince William Sound. Estuarine. June 1991. Overstory removed June 1990. (Continued.)

			Ne	eorhode	omela	/Rhodome1	a (P)	(a)					0don	thal	ia flocco	sa (P)					Morphol	ogical.	Group	: Fine	Filament	cous	Reds	· <u> </u>
Site Pair M	avd –	N	С	SE	N	0	SE	C1	7 D	P	N	С	SE	N	0	SE	CV D)	P	N	¢	SE	N	0	SE	CV	ע ע	P
P15.1C/P15.1 2397C/20809			0.00	0.00		0.00	0.0	- ·	- 0	1.000	5 6	0.00 0.00	0.00 0.00		0.00	0.00	- - o	1	.000	5 6	0.00	0.00		0.00	0.00	-	- 0	1.000
Habitat Means	5		0.00	0.00		0.00	0.0	0	o			0.00	0.00		0.00	0.00	0	•			0.00	0.00)	0.00	0.00		0	
Fisher's Stouffer's		ower				r-50% r-50%					<pre>2 Power Power</pre>				er-50% er-50%		P-value P-value		z	Power Power				-50% -50%			aluc alue	z
P15.1C/P15.1 2397C/20809			0.00	0.00		0.00	0.0	0 -	- 0	1.000	2	0.00	0.00		2.50	2.50			.363	2	0.00	0.00		0.00	0.00		- - o	1.000
Habitat Means	s		0.00	0.00		0.00	0.0	0	0			0.00	0.00		2.50	2,50	-				0.00	0.00)	0.00	0.00		0	
Fisher's Stouffer's		ower				r-50% r-50%			alue alue		z Power Power				er-50% er-50%		?-value ?-value		z	Power Power				-50% -50%			alue alue	z
P15.1C/P15.1 2397C/20809			1.67	1.67		0.00	0.0	0 -	- +	0.423	0	0.00	0.00		0.00	0.00	- 0	1	L.000	0 3	0.00	0.00	•	0.00	0.00		- - o	1.000
Habitat Means	8		1.70	1.70		0.00	0.0	0	+			0.00	0.00		0.00	0.00	0				0.00	0.00)	0.00	0.00		0	
Fisher's Stouffer's		ower				r-50% r-50%					2 Power Power				er-50% er-50%		P-value P-value		2	Power Power				-50% -50%			alue alue	z

(a) Genera not separated.

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

Table C-5.352. Page 3. December 15, 1994

		Poly	yaipho	nia/P	cerosipho	nia (A)	(a)																		
Site Pair Mv	d N	С	SE	N	0	SE	CΛ	ם	P	N	c	SE	N	0	SE	CV I	P	N	С	SE	N	0	SE	CV D	P
P15.1C/P15.1 1 2397C/20809 1		0.00	0.00		0.00	0.00	-	0	1.000																
Habitat Means		0.00	0.00		0.00	0.00		0																	
Fisher's Stouffer's	Power Power				r-50% r-50%				2	Power Power	-		Power- Power-			P-value P-value		Power Power			Power Power			P-value P-value	
P15.1C/P15.1 2 2397C/20809 2		0.00	0.00		0.00	0.00		o	1.000																
Habitat Means		0.00	0.00		0.00	0.00		0																	
Fisher's Stouffer's	Power Power				r-50% r-50%				2	Power Power			Power- Power-			P-value P-value		Power Power			Power Power			P-value P-value	
P15.1C/P15.1 3 2397C/20809 3		0.00	0.00		0.00	0.00	-	0	1.000																
Habitat Means		0.00	0.00		0.00	0.00		0																	
Fisher's Stouffer's	Power Power				r-50% r-50%				2	Power Power			Power- Power-			P-value P-value		Power Power			Power Power			P-value P-value	

(a) Genera not separated.

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

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 a meter vertical drop; 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.

					De 1 e	nomorpha								Lo	ottiidae								1	Mytilus				
				SE	N	O	SE	C1	7 D	P	N	c	SE	N	0	SE	CA	D	P	N	С	SE	N	0	SE	CA	ם ע	P
P15.1C/P15.1		5	0.00	0.00			0.0		. +	0.168	5 6	0.00	0.00		0.00	0.00		0	1.000	5 6	0.00	0.00		0.00	0.00		- 0	1.000
2397C/20809	1 1	6 1	17.72 8.85	7.30	4	0.00	0.0		+	0.100	Ü	0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Habitat Means Fisher's	P	ower			Power	-50%		P-v	alue		2 Power Power				er-50% er-50%		P-val: P-val:			2 Power 20wer				er-50% er-50%			alue alue	z
Stouffer's P15.1C/P15.1	2	2	0.00	0.00	0	0.00	0.0	_	_	1.000	2 2	0.00	0.00		0.00	0.00		0	1.000	2 2	0.00	0.00		0.00	0.00		- 0	1.000
2397C/20809 Habitat Means		2	0.00	0.00	Ü	0.00	0.0		0			0.00	0.00		0.00	0.00	ı	0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	P	ower			Power				alue alue		z Power Power				er-50% er-50%		P-val			2 Power Power				er-50% er-50%			alue alue	z
P15.1C/P15.1	3	0	2.50	2.50		2.50	1.4		- 0	0.771	0	0.00	0.00		0.00	0.00		0	1.000	0 3	0.00	0.00	3	0.00	0.00)	- 0	1.000
Habitat Means	_	3	2.50	2.50		2.50	1.4	0	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00 er-50%	0.00		alue	z
Fisher's Stouffer's		ower ower			Power Power				alue alue		2 Power Power				er-50% er-50%		P-val			7 Power Power				er-50%			alue	1

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

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					Litt	orinidae	ı																			_	
Site Pair	Mvd	N	С	SE	N	0	SE	CV	D P	И	С	SE	N	0	SE	ÇV	ם	P	N	Ċ	SE	N	٥	SE	CA	D	P
P15,1C/P15.1 2397C/20809			0.00	0.00		0.00	0.00		0 1.000																		
Habitat Mean	ns		0.00	0.00		0.00	0.00		o										Power			Power	-50%		P-val	ue	
Fisher's Stouffer's		Power Power			Power Power			P-valu P-valu		z Power Power			Power-			P-val			Power			Power			P-val		
P15.1C/P15.1 2397C/20809			0.00	0.00		0.00	0.00		0 1.000																		
Habitat Mear	ns		0.00	0.00		0.00	0.00)	o							_	,		Davies			Power	-50%		P-val	ne.	
Fisher's Stouffer's		Power Power			Power Power			P-valu P-valu		z Power Power			Power- Power-			P-va P-va			Power Power			Power			P-val		
P15.1C/P15.1 2397C/20809	1 3	0 3	0.00	0.00	0 3	0.00	0.00		o 1.000																		
Habitat Mear	ns		0.00	0.00		0.00	0.00)	0										D			Power	-509		P-val	ue	
Fisher's	c	Power				-50% -50%		P-valu P-valu					Power-			P-va P-va			Power Power			Power			P-val		

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

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; D = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes insufficient data.

	_				Rock	_							Mud								Sand				
Site Pair M	wd N	С	gE	N	0	SE	GA D	P	N	С	SE	N	0	SE	CV D	P	N	С	SE	N	0	SE	CV I) P	,
P15.1C/P15.1 2397C/20809		37.50 44.80	15.61 17.33		100.00	0.00		0.017	5 6	12.50 0.00	6.07 0.00		0.00	0.00		1.000	5 6	0.00 0.00	0.00		0.00	0.00	- (1.00	
Habitat Means		41.15	16.45		100.00	0.00	~			6.25	3.05		0.00	0.00	О			0.00	0.00	}	0.00	0.00)	
Fisher's Stouffer's	Powe Powe				er-50% er-50%		P-value P-value		<pre>2 Power Power</pre>				r-50% r-50%		P-value P-value		yz Power Power				-50% -50%		e-value		z
P15.1C/P15.1 2397C/20809		0.00 45.00	0.00 12.50		95.42	2.92	-	0.004	2 2	50.00	50.00		0.00	0.00		1.000	2 2	0.00	0.00		0.00	0.00		1.00	000
Habitat Means		22.50	6.25		95.40	2.90	-			25.00	25.00		0.00	0.00	0			0.00	0.00	l	0.00	0.00	(
Fisher's Stouffer's	Powe Powe				er-50% er-50%		P-value P-value		z Power Power				r-50% r-50%		P-value P-value		yz Power Power				-50% -50%		P-value P-value		z
P15.1C/P15.1 2397C/20809		31.67	30.43	•	89.17	4.64		0.138	0	0.83	0.83		0.00	0.00		0.423	0	0.00	0.00	~	0.00	0.00	- (1.00	00
Habitat Means		31.70	30.40		89.20	4.60	-			0.80	0.80		0.00	0.00	+			0.00	0.00	ı	0.00	0.00		,	
Fisher's Stouffer's	∋owe ∋owe				er-50% er-50%		P-value P-value		z Power Power				r-50% r-50%		P-value P-value		, Power Power			Power Power			e-value e-value		2

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

z Only one site	pair.				911111 9/10	(illen arrece)		10															Tabl	≘ € 5.354.	fage 1. D	ecerbe	er 15, 1994
	_				Shell	Fragment	: 6								fater	_					Zo	stera/	Phylloso	adix			
Site Pair	Mvd	N	С	SE	N	0	SE	cv	D	P	N	С	SE	N	0	SE	CA D	P	N	c	SE	Ŋ	0	SE	cv	D	P
P15.1C/P15. 2397C/20809			0.50	0.50 0.00		0.00	0.0		o	1.000	5 6	0.00 9.58	0.00 9.58		0.00	0.00		0.363	_	0.00	0.00		0.00	0.00	-	o 1	1.000
Habitat Mea	១៩		0.25	0.25		0.00	0.0	3	0			4.80	4.80		0.00	0.00	,			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		ower,	 		Power Power			P-va P-va		Y	Power Power			Power Power			-value -value					Power Power			P-valu P-valu		z
P15.1C/P15. 2397C/20809			0.00	0.00		0.00	0.0		o	1.000	2 2	0.00	0.00		0.00	0.00	- - o	1.000		0.00	0.00		0.00	0.00	-	0 1	000
Habitat Mea	ns		0.00	0.00		0.00	0.0	כ	0			0.00	0.00		0.00	0.00	0			0.00	0.00		0.00	0.00		o	
Fisher's Stouffer's		ower			Power Power			P-va P-va			Power Power			Power Power			-value -value					Power Power			P-valu P-valu		z
P15.1C/P15. 2397C/20809			0.00	0.00	•	0.00	0.0	-) -	0	1.000	0	0.00	0.00	0	0.00	0.00	- 0	1.000	0	0.00	0.00		0.00	0.00	-	0 1	000
Habitat Mean	ns		0.00	0.00		0.00	0.0)	0			0.00	0.00		0.00	0.00	O			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		ower ower			Power Power			P-val P-val			Power Power			Power Power			-vaiue -vaiue					Power			P-valu P-valu		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-5.354. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Estuarine. June 1991. Overstory removed June 1990. (Continued.)

					Sar	nd and Mu	đ							Tota	l Substra	te												
Site Pair	Mvd	N	c	SE	N	0	SE	CV	D	P	N	c	SE	N	0	SE	CV D	F	•	N	С	SE	N	0	SE	ÇV	D	P
P15.1C/P15.2	1 1	5	13.00 9.58	6.0		0.00	0.00		+	0.363	5 6	50.50 54.38	15.58 16.38	4	100.00	0.00		0.0	223									
abitat Mea			11.30	7.8	5	0.00	0.00)	1			52.45	16.00		100.00	0.00				Power			Power	-50%		P-va	ue	
Fisher's Stouffer's		Power Power				er-50% er-50%		P-val P-val			Power Power				er-50% er-50%		P-value P-value			Power			Power			P-va.	uc	
15,1C/P15. 397C/20809			50.00		0 0 0 6	0.00	0.00		Q	1.000	2 2	50.00 45.00	50.00 12.50		95.42	2.92			004									
abitat Mea		-	25.00	25.0	0	0.00	0.00		0			47.50	31.25		95.40	2.90							_	F 0.0		7		
Fisher's Stouffer'		Power Power				er-50% er-50%		P-val		y	z Power Power				er-50% er-50%		P-value P-value			BoMez SoMez			Power	-50%		P-va		
15.1C/P15. 397C/20809	1 3		0.83		- 0 3 3	0.00	0.00		+	0.423	0	32.50	30.03		89.17	4.64		- 0.3	141									
Mea			0.80	0.8	0	0.00	0.00)				32.50	30.00)	89.20	4.60								. = 0 %		P-va	1,10	
Fisher's		Power				er-50%		P-va			2 Power				er-50% er-50%		P-value P-value			Power Power				-50% -50%		P-va		

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

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; 0 = control = oiled; P = probability value; dashes - insufficient data.

				λlga	1 Di	iversity I	s) xebn)					Alga	l Tai	xa Richnes	ss (b)							Tot	al Algae				
Site Pair	Mvd	N	С	SE	N	0	SE	c	7 D	P	N	c	SE	N	o	SE	CV D	P		r c	8	E	N	0	SE	cv	ם	P
P15.1C/P15. 2397C/20809			0.20	0.0		0.00	0.0 0.0		+	1,000	1 6	2.00 0.50	0.22		0.00	0.00			76	15.0 17.5		.0.08		0.00	0.00 0.00		+	0.101
Habitat Mea	ns		0.10	0.0	0	0.00	0.0	0	0			1.25	0.22		0.00	0.00				16.2	5 1	0.10		0.00	0.00		F	
Fisher's Stouffer's		Power Power				wer-50% wer-50%		P-va P-va		y	z Power Power				r-50% r-50%		P-value P-value			wer			Power			P-val: P-val:		z
P15.1C/P15. 2397C/20809			0.00	0.0		0.00	0.0			0.374	1 4	1.00 1.00	0.00		0.50 0.80	0.29 0.58			: 19 ·	. 100.0 . 56.2		7.87		1.88 12.00	1.20 7.72		-	0.042
Habitat Meas	ns		0.00	0.0	0	0.04	0.0	4	-			1.00	0.00		0.65	0.44	+			78.1	5 1	7.90		6.95	4.45		4	
Fisher's Stouffer'		Power Power				wer-50% wer-50%	- 	P-va P-va	llue llue		z Power Power				r-50% r-50%		P-value P-value		2 Pc	wer wer				-50% -50%		P-valı P-valı		z
Pl5.1C/P15. 2397C/20809		0 4	0.15	0.1		0.57 0.00	0.0	10		0.391	0 4	1.50	1,19		4.00 0.50	0.29		0.4	45	11.8	 7	8.86		25.00 26.88	17.78		-	0.595
Habitat Mea	ns		0.15	0.1	5	0.29	0.0	10	+			1.50	1.19		2.25	0.29	-			11.9	0	8.90		25.95	17.80		-	
Fisher's Stouffer's		Power Power				wer-50% wer-50%		P-v8		y	z Power Power				r-50% r-50%		P-value P-value		vz Po Po	wer				-50% -50%		P-val: P-val:		z

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

x. At least one site pair p-vs) $q_0 < 0.100$ in opposite direction of overall tests. y Direction of difference between habital means is different than direction of overall tests. Only one effect pair.

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					To	ot a l	Invertebr	ates								Rock								Pere	mials (F	·)			
Site Pair	Mvd	N	С		SE	Ŋ	0	SE	C1	7 D	P	N	С	SE	N	С	SE	CV 1	, ,	N	С	SI	3	N	0	SE	cv	D	
P15.1C/P15.1 2397C/20809			0.0 7.9		4.67	•	0.00 0.83	0.0 0.8		0	0.272	1 6	7.50 74.58	10.09	-	25.62 99,17	23.99 0.83		_	1 32 6	15.00 17.50		.08	- 4	0.00	0.00 0.00	-		0.101
Habitat Mean	15		3.9	5	4.70		0.40	0.4	0	-			41.05	10.10		62.40	12.40	-			16.25	10	.10		0.00	0.00		l .	
Fisher's Stouffer's		Power Power					er-50% er-50%		P-va P-va			2 Power Power				r-50% r-50%		P-value P-value		z Pow Pow					c-50% c-50%		P-valu P-valu		z
P15.1C/P15.1 2397C/20809			0.0		15.66		3.75 0.00	2.9 0.0			0.210	14	0.00 24.38	9.70	4 5	55.00 88.00	23.89 7.72		. 0.0	1 05 4	0.00 56.25			-	0.00	0.00 7.57	-	-	0.040
Habitat Mean	ıs		9.0	5	15.70		1.90	1.5	0	+			12.20	9.70		71.50	15.80				28.15	17	.90		5.75	3.80			
Fisher's Stouffer's		Power Power					er-50% er-50%		P-va P-va			r Power				r-50% r-50%		P-value P-value		z Pow Pow					r-50% r-50%		P-valu P-valu		z
P15.1C/P15.1 2397C/20809			32.5	- 0	20.39		5.00 15.63	7.9	3 -	. +	0.554	0 4	20.63	16.02		55.00 57.50	12.37			0 93 4	4.38	2	.58	-	17.50 8.12	8.12		- (0.992
Habitat Mean	15		32.5	0	20.40		10.30	7.9	0	٠			20.60	16.00		56.25	12.40	-			4.40	2	.60		12.80	8.10		-	
Fisher's Stouffer's		Power Power					er-50% er-50%		P-va P-va			z Power Power				r-50% r-50%		P-value P-value		z Pow Pow					c-50% c-50%		P-valu P-valu		z

× At least one site pair p-value < 0.100 in opposite direction of overall tests. y direction of difference between habitat means is different than direction of overall tests, to fully one sale pair.

Table C-5.355. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Estuarine. July 1991. Overstory removed August 1990. (Continued.)

					λnı	nuals (A)								Ephene	erals (A)	E)												
Site Pair M	ivd 1	ą.	С	SE	N	0	SE	С	V D	P	N	С	SE	N	0	SE	CV :	D	P	N	С	Se	N	0	SE	CV	D	P
P15.1C/P15.1 2397C/20809			0.00	0.00		0.00	0.00		- 0 - 0	1.000	1 6	0.00 0.00	0.00		0.00	0.00 0.00			1.000									
Habitat Means	5		0.00	0.00		0.00	0.00)	0			0.00	0.00		0.00	0.00		0										
Fisher's Stouffer's		ower				er-50% er-50%					z Power Power			Power Power			P-valu P-valu			Power Power			Power Power	-50% -50%		P-valu P-valu		
P15.1C/P15.1 2397C/20809			00.00	0.00		1.88	1.20		- +	0.374	1 4	100.00 0.00	0.00	4 5	1.88	1.20 0.00			1.000									
Habitat Means	5		50.00	0.00		1.20	0.85	j	-			50.00	0.00		0.95	0.60		Ó										
Fisher's Stouffer's		ower				er-50% er-50%			alue alue		z Power Power			Power Power			P-valu P-valu		y	Power Power			Power Power	-50% -50%		P-val: P-val:		
P15.1C/P15.1 2397C/20809			7.50	7.50		7.50 18.75	18.75			0.710	0 4	6.88	6.88		7.50 18.75	18.75		- 1	0.690									
Habitat Means	3		7.50	7.50		13.15	18.80)	-			6.90	6.90		13.15	18.80		-										
Fisher's Stouffer's		ower				er-50% er-50%					z Power Power			Power Power			P-valu P-valu			Power Power				-50% -50%		P-val: P-val:		

x At least one site pair p-value < 0.100 in opposite direction of overall tests, y direction of difference between habital 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 = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

					1	Chlorophy						Morp	hologi	cal (Group: Bl	Laded G	eens	ı				Blac	ied G	reens (AE) (a)			
Site Pair	Mvd	N.	<u> </u>	SB	N	0	SE	CV	D	P	N	С	92	N	0	SE	CV		P	N	С	SE	N	0	SE	CA 1	D	P
P15.1C/P15.	1 1	1	0.00			0.00	0.00		0	1.000	1	0.00	0.00		0.00	0.00	-		1.000	<u>1</u>	0.00	0.00		0.00	0.00	-		1.000
2397C/20809		6	0.00	0.00		0.00	0.00		0	11000		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's		Power			Powe	r-50% r-50%		P-vai			z Power Power				er-50% er-50%		P-va P-va			z Power Power				r-50% r-50%		-valu -valu		z
Stouffer' P15.1C/P15.	1 2	Power 1	0.00		4	0.63 0.50	0.63	-	_	0.374	1 4	0.00	0.00	-	0.63	0.63			1.000	1 4	0.00	0.00	-	0.63	0.63	-		1.000
397C/20809 Habitat Mea		4.	0.00	0.00		0.55	0.55		-	V.2/1		0.00	0.00		0.30	0.30)	0			0.00	0.00		0.30	0.30		0	
Fisher's		Power Power			Powe	r-50% r-50%		P-va. P-va			z Power Power				er-50% er-50%		P-va P-va		,	Power Power				r-50% r-50%		e-valu		yz
Stouffer' P15.1C/P15.	: 3	0		3.75	- 1	7.50 18.75	18,75		_	0.583	0	3.13	3.13	-	7.50	0.0			0.391	0 4	3.13	3.13		7.50 0.00	0.00	-	+	0.391
2397C/20809 Habitat Mea		4	3.75	3.80		13.15	18.80		-	***		3.10	3.10		3.75	0.00)	-			3.10	3.10		3.75	0.00		١	
Fisher's Stouffer'		Power Power			Powe	r-50% r-50%		P-va P-va			z Power Power				er-50% cr-50%		P-va P-va		;	2 Power Power				:z-20\$:z-20\$		P-valu P-valu		yy

	Mo	rphologi	cal G	roup:	Fine Fi	lamentou	s Gree	ns			Act	osiph	onia sp.	(A)				Cha	etomor	pha/Rhiz	ocloni	um (A)		
ite Pair Mvd N			3E	N	0	SE	CV D	P	N	c	SE	N	0	SE	CA D	P	N	C	SE	N	0	ge	CA D	P
5.1C/P15.1 1 1		0.00	0.00	4	0.00	0.00	- o	1.000	<u>.</u>	0.00	0.00	-	0.00	0.00	- o	1.000	1 6	0.00	0.00		0.00	0.00	- 0	
97C/20809 1 6		0.00	0.00	,	0.00	0.00	0			0.00	0.00		0.00	0.00	0			0.00	0.00		0.00	0.00	0	
	wer wer			Power-	-50%		-value		z Power Power			Power Power			P-value P-value		z Power Power			Power-5 Power-5	0%	P	e-value e-value	
5.1C/P15.1 2 1 97C/20809 2 4		0.00	0.00	4 5	0.00	0.00	- o 	0.374	1 4	0.00	0.00	-	0.00	0.00	- o	1.000	4	0.00	0.00	5	0.00 0.50 0.25	0.00 0.50 0.25		0.3
bitat Means		0.00	0.00		0.25	0.25	-			0.00	0.00		0.00	0.00			7	0.00	0,00	Power-5			-value	
T T DITOT D	wer			Power			-value		z Power Power			Power Power			P-value P-value		z Power Power			Power-5	08	F	P-value	
5.1C/P15.1 3 0			0.63	1 4	0.00	0.00	-	0.391	0	0.00	0.00	_	0.00	0.00	- 0	1.000	0 4	0.00	0.00		0.00	0.00	- c	1.0
397C/20809 3 4		0.63	0.60	4	0.00	0.00				0.00	0.00		0.00	0.00	o			0.00	0.00		0.00	0.00	c)

(e) Cenera not separated. x At least one site pair p value < 0.100 in opposite direction of overall tests, y Direction of difference between habital means is different than direction of overall tests, z hely one site pair.

Table C-5.356. Algal Percent Cover. Chlorophyta. Prince William Sound. Estuarine. July 1991. Overstory removed August 1990. (Continued.)

				C1	.adoph	ora sp. (AE)				Mo	rphologic	al Gr	oup:	Tubular	and Sac	cate G	ree	n.g		в	idingi	a/Ent	eromorph	a (AE) (a)		
Site Pair	Mvd	N	c	SE	N	0	SE	cv	D	P	N	c	SE	N	0	SE	ÇV :	ם	P	Ŋ	c	SE	N	0	SE	CΔ	D	ъ
P15.1C/P15.1 2397C/20809			0.00	0.00	•	0.00	0.00	-	0	1.000	1 6	0.00	0.00	4	0.00	0.00		•	1.000	1 6	0.00 0.00	0.00	-	0.00	0.00	-	_	1.000
Habitat Mean	s		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power				r-50% r-50%		P-val P-val			z Power Power				er-50% er-50%		P-valu P-valu			Power Power				r-50% r-50%		-val -val		z
P15.1C/P15.1 2397C/20809		1 4	0.00	0.00	•	0.00	0,00	-		1.000	1	0.00	0.00	-	0.00	0.00		0	1.000	1 4	0.00	0.00		0.00	0.00	-	_	1.000
Habitat Mean	19		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		٥	
Fisher's Stouffer's		Power Power				r-50% r-50%		P-va. P-va.			Power Power				er-50% er-50%		P-valu P-valu			Power Power				r-50% r-50%		?-va] ?-va]		z
P15.1C/P15.1 2397C/20809		0 4	0.63	0.63		0.00	0.00		+	0.391	0 4	0.00	0.00	4	0.00 18.75	18.75		-	0.391	0 4	0.00	0.00		0.00 18.75	18.75			0.391
Habitat Mean	s		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 Stouffer's		Power Power				x-50% r-50%		P-va P-va			2 Power Power				er-50% er-50%		P-valu P-valu			z Power Power				r-50% r-50%		P-val P-val		z

[[]a] Genera not separated, x At least one wite pair p-value < 0.100 in opposite direction of 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. 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; P - probability value; dashes insufficient data.

			,	Total	Phaeophy	a					Morg	hologi	cal G	roup: B	laded Br	B.ITWO					F	лслв (ottonii	(P)			
Site Pair Mv	d N	С	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	ÇV I		P	N	C	SE	N	0	SE	cv	D	P
P15.1C/P15.1 1 2397C/20809 1		15.00 17.50	10.08		0.00 0.00	0.00	- -		0.101	1 6	15.00 17.50	10.08		0.00	0.00 0.00	- + - +	0.	101	1 6	2.50 0.00	0.00		0.00	0.00 0.00	-	•	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 Stouffer's	Pow Pow				r-50% r-50%		P-val P-val		:	Power Power				r-50% r-50%		P-value P-value		z	Power Power				c-50% c-50%		P-val P-val		yz
P15.1C/P15.1 2 2397C/20809 2		100.00 56.25	17.87		1.25 10.50	1.25 7.35	-		0.036	1 4	0.00 56.25	17.87	4 5	0.00 10.50	0.00 7.35			036	1 4	0.00	0.00	•	0.00	0.00	-	0	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		0	
Fisher's Stouffer's	Pow				c-50%		P-val P-val		:	z Power Power	- 			r-50% r-50%		P-value P-value		z	Power Power				c-50% c-50%		-val		z
P15.1C/P15.1 3 2397C/20809 3	0	8.12	5.34		7.50 8.12	8.12		0	0.798	0 4	4.38	2.58	•	7.50 8.12	8.12		0.	992	0 4	0.00	0.00		0.00	0.00	-	o	1.000
Habitat Means		8.10	5.30		7.80	8.10		0			4.40	2.60		7.80	8.10	-				0.00	0.00)	0.00	0.00		0	
Fisher's Stouffer's	Pow Pow				r-50% r-50%		P-val P-val		y	z Power Power				r-50% r-50%		P-value P-value		,	Power Power				c-50% c-50%	I	?-val P-val		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.

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				Tota	1 Puc	us gardne	ri (P)					Ad	ult Fu	cus g	ardneri (P) (> 2	cm)				Juve	nile F	исив 9	gardneri	(P) (<=	2cm)	
Site Pair	Mvd	N	C	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	ĊV	D	P	N	C	SE	N	0	SE	CV D	 P
P15.1C/P15.1 2397C/20809			12.50 17.50	10.08		0.00 0.00	0.0			0.101	1 6	10.00 17.50	10.08		0.00	0.00 0.00			0.101	1 6	2,50 0.00	0.00		0.00	0.00	- ÷ - o	000
Habitat Mean	ns		15.00	10.10		0.00	0.0	0	+			13.75	10.10		0.00	0.00		4			1.25	0.00		0.00	0.00	0	
Fisher's Stouffer's		Power Power				r-50% r-50%		P-va P-va			z Power Fower				r-50% r-50%		P-val P-val			<pre>Power Power</pre>				r-50% r-50%		-value -value	yz
P15.1C/P15.2			0.00 56.25	17.87		0.00 10.50	0.0 7.3			0.036	1	0.00 56.25	17.87		0.00 10,50	0.00 7.35		o +	0.036	1	0.00	0.00	4 5	0.00	0.00	- 0	000
Habitat Mean	ns		28.15	17.90		5.25	3.7	0				28.15	17.90		5.25	3.70		+			0.00	0.00		0.00	0.00	0	
Fisher's Stouffer's		Power Power				r-50% r-50%		P-va P-va			z Power Power				r-50% r-50%		P-va P-va			Power Power				c-50% c-50%		-value -value	z
P15.1C/P15.3 2397C/20809		0 4	4.38	2.58	-	7.50 8.12	8.1	 2 -	-	0.992	0 4	4.38	2.58		7.50 8.12	8.12		-	0.992	0 4	0.00	0.00		0.00	0.00	- 0	000
Habitat Mean	r.s		4.40	2.60		7.80	8.1	0	-			4.40	2.60		7.80	8.10		-			0.00	0.00		0.00	0.00	0	
Fisher's Stouffer's		Power Power				er-50% er-50%		P-va P-va			2 Power Power				r-50% r-50%		P-va: P-va:			z Power Power				r-50% r-50%		-value -value	z

x At least one site pair p-value < 0.100 in opposite direction of overall tests.</p>
y Direction of difference between habitat means is different than direction of overal; tests.
c Doly one site pair.

Table C-5.357. Algal Percent Cover. Phaeophyta. Prince William Sound. Estuarine. July 1991. Overstory removed August 1990. (Continued.)

				Fu	cus St	pes (P)	(a)				Mo	orphologic	al Gr	oup:	Coarse P	11ament	ous E	Brown	ns			Di	ctyosi	phon sp.	(A)			
Site Pair M	ivd	N	С	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	CV	D	P	N	С	\$E	N	0	SE	Ċ/	V D	P
P15.1C/P15.1 2397C/20809			0.00	0.00		0.00	0.00		0	1.000	1 6	0.00	0.00	•	0.00	0.00		0	1.000	1 6	0.00	0.00		0.00	0.00		- o	1.000
Habitat Means	3		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer's		Power Power			Power-			P-val P-val		:	Power Power				r-50% r-50%		P-val			z Power Power			Power Power				alue alue	z
P15.1C/P15.1 2397C/20809	2		0.00	0.00		0.00	0.00		0	1.000	1	0.00	0.00		0.00	0.00	-	0	1.000	4	0.00	0.00	4 5	0.00	0.00		- 0	1.000
Habitat Means	5		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	J	0	
Fisher's Stouffer's		Power Power			Power-			P-va: P-va:			Power Power				r-50% r-50%		P-val			2 Power Power			Power				alue alue	z
P15.1C/P15.1 2397C/20809			0.00	0.00	-	0.00	0.00		0	1.000	0 4	0.63	0.63	_	0.00	0.00	-		0.391	0	0.00	0.00	-	0.00	0.00		- 0	1.000
Habitat Means	5		0.00	0.00		0.00	0.00		0			0.60	0.60		0.00	0.00		+			0.00	0.00		0.00	0.00	,	0	
Fisher's Stouffer's		Power Power			Power-			P-val P-val			Power Power				r-50% r-50%		P-val			z Power Power			Power Fower					z

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

Table C 5.357. Page 3. December 15, 1994

			му	relophy	cus/Sc	ytomipho	n (A)	a)				Morpholog	ical G	roup:	Fine Fi	lamento	us Br	OWI	8		Fi	ne Fil	ament	ous Brown	s (AE) (b)		_
Site Pair	Mvd	ı N	C	SE	N	О	SE	СV	D	P	N	С	ge	N	0	SE	cv	ם	P	N	c	SE	N	0	SE	ĊV	D	P
715.1C/P15. 2397C/20809			0.00	0.00	-	0.00	0.00		0	1.000	1 6	0.00	0.00	4 3	0.00	0.00	-	0	1.000	1 6	0.00	0.00	-	0.00	0.00		0	1.000
Habitat Mea	ns		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'		Power Power			Power-			P-val P-val			r Power Power				r-50% r-50%	I	P-val:		;	Power Power				r-50% r-50%		-valu -valu		z
P15.1C/P15. 2397C/20809			0.00	0.00	•	0.00	0.00		0	1.000	1 1	0.00	0.00	•	1.25	1.25		o O	1.000	14	100.00	0.00	4 5	1.25	1.25	-	+ o	1.000
Habitat Mea	ns		0.00	0.00		0.00	0.00		Q			50.00	0.00		0.65	0.65		o			50.00	0.00		0.65	0.65		0	
Fisher's Stouffer'		Power Power			Power-						Power Power				r-50% r-50%		P-valı P-valı		y:	Power Power				r-50% r-50%		-valu		yz
P15.1C/P15. 2397C/20809			0.63	0.63	_	0.00	0.00		+	0.391	0 4	3.13	3.13	1 4	0.00	0.00	_	+	0.391	0	3.13	3.13	-	0.00	0.00	-	+	0.391
Habitat Mea	r.s		0.60	0.60		0.00	0.00		+			3.10	3.10		0.00	0.00		+			3.10	3.10		0.00	0.00		+	
Fisher's Stouffer's		Power Power			Power-			P-val P-val			Power Power				r~50% r-50%		P-valı P-valı		;	Power Power				r-50% r-50%		-valu		z

(a) Genera not separated.

(b) Elachieta, Ectocarpus end Pilayella. x At least one size pair p-walue < 0.100 in opposite direction of overall tests. y Direction of difference patween habitat means is different than direction of overall tests. z Only one site pair.

Table C-5.357. Algal Percent Cover. Phaeophyta. Prince William Sound. Estuarine. July 1991. Overstory removed August 1990. (Continued.)

			Morph	ologi	cal Gr	roup: Sa	ccate B	rown	B			1	eathe	sia/C	Colpomenia	(A) (A)	1											
ite Pair	Mvd N			SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	CV	D	P	N	c	SE	N	0	SE	¢.	7 D	P
5.1C/P15.1 397C/20809			0.00	0.00	4 3	0.00	0.00		0	1.000	1 6	0.00	0.00	3	0.00	0.00	-	0	1.000									
bitat Mean			0.00	0.00		0.00	0.00)	0			0.00	0.00		0.00	0.00		0		D===			Power-	-50%		P-va	alue	
Fisher's Stouffer's		wer wer				r-50% r-50%		P-va P-va			z Power Power				er-50% er-50%		P-val P-val			Power Power			Power-			P- v8		
5.1C/P15.1	2 1		0.00	0.00		0.00	0.00		- o	1.000	14	0.00	0.00	4 5	0.00	0.00		0	1.000									
bitat Mean			0.00	0.00		0.00	0.00)	0			0.00	0.00		0.00	0.00		0										
Fisher's Stouffer's	Po	wer wer				r-50% r-50%		P-va P-va			z Power Power				er-50% er-50%		P-va P-va			Power Power			Power- Power-			P~va P~va		
15.1C/P15.1 397C/20809	130		0.00	0.00	1	0.00	0.0		- 0	1.000	0 4	0.00	0.00		0.00	0.00	-		1.000									
abitat Mear			0.00	0.00		0.00	0.0	Ó	Q			0.00	0.00		0.00	0.00		0					Power-	-5.09		2 - v	alve	
Fisher's		wer				r-50%			alue alue		z Power Power				er-50% er-50%		P-val P-val			Power Power			Power.			P-V		

(a) Genera not separated.

Table C-5.357, Page 5, December 15, 1994

x At least one site pair p-value < 0.100 in opposite direction of 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. 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	Rhodophy	ta					Mor	pholog	ical	Group:	Bladed F	Reds						Porphy	ra sp. (A)			
Site Pair	Mvd	ı N	С	\$E	N	0	SE	cv	D	P	N	С	SE	N	0	SE	CV :	Ð	P	N	c	SE	N	0	SE	ĊV	Ď	P
P15.1C/P15. 2397C/20809			0.00	0.00	3	0.00	0.00		0	1.000	1 6	0.00	0.00		0.00	0.00 0.00		0	1.000	1 6	0.00	0.00	-	0.00	0.00	-	0	1.000
Habitat Mea	ns		0.00	0.00	1	0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		٥	
Fisher's Stouffer'	's	Power Power			Power Power			P-vali P-vali		:	Power Power				r-50% r-50%		P-value P-value		z	Power Power			Power Power		E			z
P15.1C/P15. 2397C/20809			0.00	0.00		0.00	0.00		0	0.374	1 4	0.00	0.00	4 5	0.00	0.00		0	1.000	1	0.00	0.00		0.00	0.00	-	0	1.000
Habitat Mea	ns		0.00	0.00	,	0.50	0.50		-			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'		Power Power			Power Power			P-val: P-val:		;	Power Power				r-50% r-50%		P-value P-value		4	Power Power			Power Power		I			z
P15.1C/P15. 2397C/20809			0.00	0.00		0.00	0.00		0	1.000	0 4	0.00	0.00	-	0.00	0.00		0	1.000	0 4	0.00	0.00	-	0.00	0.00		0	1.000
Habitat Mea	ns		0.00	0.00		5.00	0.00		0			0.00	0.00		0.00	0.00		Ç.			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	's	Power Power			Power Power			P-valı P-valı		ya	Power Power				r-50% r-50%		P-value P-value		4	Power			Power Power		I			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 overal) tests. 2 Only one site pair.

	_	м	orpholog	ical (3roup:	Coarse	Filam	ento	s Rec	18			Crypt	osiph	onia wood	iii (A)						Gloi	opelt	is furcat	ta (A)			
Site Pair M	vđ 1	NI .	С	SE	N	0	82		V D	P	N	С	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	cv	D	P
P15.1C/P15.1 1 2397C/20809 1	1 1 1 6		0.00	0.00	-	0.00	0.0		- o - o	1.000	<u>1</u>	0.00	0.00	4 3	0.00	0.00	-	0	1.000	1 6	0.00	0.00		0.00	0.00		0	1,000
Habitat Means			0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		ower			Power				alue alue		2 Power Power				r-50% r-50%		P~valı P~valı			Power Power			Power Power		P	-valu		z
P15.1C/P15.1 2 2397C/20809 2			0.00	0.00		0.00	0.0		- 0	0.374	1	0.00	0.00	4 5	0.00	0.00	-	0	1.000	1 4	0.00	0.00	4 5	0.00	0.00		0	1.000
Habitat Means			0.00	0.00		0.50	0.5	i O	-			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		О	
Fisher's Stouffer's		ower			Power Power				alue alue		2 Power Power				r-50% r-50%		P~val: P~val:			Power Power			Power Power		P	-valu		z
P15.1C/P15.1 3 2397C/20809 3	3 4		0.00	0.00	-	10.00	0.0		- 0	1.000	0 4	0.00	0.00	1	0.00	0.00	-	0	1.000	0 4	0.00	0.00		0.00	0.00	-	0	1.000
Rabitat Means			0.00	0.00		5.00	0.0	0	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		ower			Power-				alue alue	y	z Power Power				r-50% r-50%		P-val: P-val:			Power Power			Power Power			-valu		z

x At least one site pair p-value < 0.100 in opposite direction of overall tests, y Direction of difference between habitat Rwans is different than direction of oversh; tests, a only one site pair.

Table C-5.358. Page 1. December 15, 1994

Table C-5 358. Algal Percent Cover. Rhodophyta. Prince William Sound. Estuarine. July 1991. Overstory removed August 1990. (Continued.)

			Ne	orhodo	me1a,	Rhodomela	1 (P)	a)					Odon	thalia	floccos	a (P)					Morpholo	gical	Group:	Fine :	Filament	ous R	eds	
Site Pair	Mvd	N N	С	ge	N	0	SE	CV	Þ	P	N	С	SE	N	0	82	CA	D	P	N	С	SE	N	0	SE	ÇV	D	P
P15.1C/P15.2	1 1	1	0.00 0.00	0.00		0.00	0.00			1.000	1 6	0.00	0.00	•	0.00	0.00		0	1.000	1 6	0.00	0.00	3	0.00	0.00	-		1.000
Habitat Mear			0.00	0.00		0.00	0.00)	0			0.00	0.00		0.00	0.00		0			0.00	0.00	Power	0.00	0.00	-val	0	2
Fisher's Stouffe:'s		ower			Power			P-va P-va			Power Power			Power Power			P-valu P-valu			2 Power Power			Power-	-50%	I	-val		
P15.1C/P15.1 2397C/20809			0.00	0.00	4 5	0.00	0.00		0	1.000	1	0.00	0.00	-	0.00	0.00		o -	0.374	1 4	0.00	0.00	•	0.00	0.00	-	0	1.000
Habitat Meas		•	0.00	0.00		0.00	0.00)	0			0.00	0.00		0.50	0.50		-			0.00	0.00		0.00	0.00		0	
Fisher's Stouffe:'s		Power Power			Powe:	c-50% r-50%		P-va P-va	lue lue		z Power Power			Power Power			P-valı P-valı			z Power Power			Power	-50%		P-valı P-valı		z
P15.1C/P15.3 2397C/20839		0 4	0.00	0.00		2.50	0.0		0	1,000	0 4	0.00	0.00	_	7.50 0.00	0.00		o	1.000	0 4	0.00	0.00	4	0.00	0.00			1.000
Habitat M∂an			1.00	0.00		1,25	0.0		0			0.00	0.00		3.75	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power				r-50% r-50%		P-va P-va			z Power Power			Power			P-val: P-val:		y	2 Power Power			Power Power			P-val		z

(a) Genera not separated.

x At least ore mite pm: p-value < 0.100 in upposite direction of overall tests. y Direction of difference betweek habitat means is different than direction of overall tests. Only one mate pmir.

Table C-5.358. Page 3. December 15, 1994

		Pol	ysipho	nia/Pt	erosipho	nia (A)	(a)																			
otto Dair Woo	4	r	AR	N	۵	SE	CV	D	P	Ŋ	С	SE	N	0	SE	ÇV D	P	N	c	SE	N	0	SE	CV I)	P
2397C/20809 1		0.00	0.00	3	0.00	0.00		0	1,000																	
Habitat Means		0.00	0.00		0.00	0.00		0																		
Fisher's Stouffer's	Power Power			Power Power			P-val P-val			¿ Power Power			Power-			P-value P-value		Power Power			Power Power			P-value P-value		
P15.1C/P15.1 2 2397C/20809 2		0.00	0.00		0.00	0.00		0	1.000																	
Habitat Means		0.00	0.00		0.00	0.00	•	0																		
Fisher's Stouffer's	Power Power			Power Power			P-val P-val			2 Power Power			Power- Power-			P-value P-value		Power Power			Power Power			P-value P-value		
P15.1C/P15.1 3 2397C/20809 3		0.00	0.00		0.00	0.00		0	1.000																	
Habitat Means		0.00	0.00		0.00	0.00)	0																		
Fisher's	Power			Power			P-val P-val			z Power Power			Power-			P-value P-value		Power Power			Power Power			P-valu P-valu		

al Genera not superared.

x At least one mite pair p-value < 0.100 in opposite direction of 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. Algal Percent Cover. Invertebrates. Prince William Sound. Estuarine. July 1991. Overstory removed August 1990.

Results of statistical differences between means of control and ciled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = ciled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > ciled; - = control < ciled; o = control = ciled; P = probability value; dashes = insufficient data.

													Lo	ttiidae								M	ytilus				
Site Pair MV	d N		<u> </u>	SE	N	nomorpha	SE	CV I	P	N	c	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	CA	D	P
P15.1C/P15.1 1			.00	4.67	4	0.00	0.00			1 6	0.00	0.00		0.00	0.00		0	1.000	1 6	0.00	0.00	3	0.00	0.00	-		1.000
2397C/20809 1 Habitat Means	ь		.95	4.70	,	0.40	0.40				0.00	0.00		0.00	0.00		0		Dessen	0.00	0.00		0.00 r-50%	0.00	-vai	o ue	,
Fisher's Stouffer's	Powe				Power			P-value P-value		<pre>Power Power</pre>				r-50% r-50%		-valu -valu		:	Power				r-50%	F	-val	uc	
P15.1C/P15.1 2	1	0	0.00	15.66		3.75	2.98		0.210	1	0.00	0.00		0.00	0.00		0	1.000	1 4	0.00	0.00	_	0.00	0.00	-	0	1.000
2397C/20809 2 Habitat Means	4			15.70		1.90	1.50				0.00	0.00		0.00	0.00		0			0.00	0.00		0.00 r-50%	0.00	-val	0	z
Fisher's Stouffer's	Powe Powe				Power			P-value P-value		z Power Power				r-50% r-50%		P-valu P-valu			Power				r-50%	•			
P15.1C/P15.1 3	0				1	5.00 15.63	7.93		0.663	0	0.00	0.00	_	0.00	0.00	-	0	1.000	0 4	5.62	4.1	-	0.00	0.00		٠	0.212
2397C/20809 Habitat Means	4		5.88	16.28 16.30		10.30	7.9				0.00	0.00		0.00	0.00		0			5,60	4.1		0.00 r-50%	0.00	P-wa	110	7
Fisher's	Powe	er			Power	-50%		P-value Distribution						r-50% r-50%		P-valu P-valu			2 Power Power				r-50%	I			

x At least one site pair p-vs]ue < 0.100 in opposite direction of overall tests.</p>
y Direction of difference between habitat means is different than direction of overall tests.
y Only one site pair.

Table C-5.359. Page 1. December 15, 1

				Litte	rinidae														_							
		-			_	n=	m	ם ח	М	r	QP.	N	n	SR	CV	מי	P	N	C	Se	N	Q	ŞE	Ċ	ם ע	P
2397C/20809 1		0.00	0.00	3	0.00	0.00		0 1.00	0																	
Habitat Means		0.00	0.00		0.00	0.00		0								1		Power			Power	-50%		P-v	alue	
Fisher's Stouffer's	Power Power			Power			P-valı P-valı		- 2 Power - Power			Power Power			P-va P-va			Somer			Power			P-V	alue	
P15.1C/P15.1 2 2397C/20809 2		0.00	0.00	4 5	0.00	0.00		0 1.00																		
Habitat Means		0.00	0.00		0.00	0.00)	0													Power	-509		P-v	a ີ ເກດ	
Fisher's Stouffer's	Power Power			Power Power			P-val: P-val		- z Power - Power			Power Power			P-va P-va			Power Power			Power			P-v		
P15.1C/P15.1 3 2397C/20809 3		0.00	0.00		0.00	0.0		0 1.00																		
Habitat Means		0.00	0.00		0.00	0.0)	0													Bowo	r-50%		P-v	alue	
Fisher's	Power			Power			P-val		- z Power - Power			Power Power			P-va P-va			Power Power				r-50%		P-v		

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

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 ciled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O ≈ ciled mean; CV : coefficient of variation; SE = standard error; D = direction of difference; + = control > ciled; - = control < ciled; c = control = cont

						Rock									Mud								Sand				
Site Pair	Mvd	N	с	SE	N	0	SE	СЛ	D	P	N	c	SE	N	٥	SE	GA D	₽	N	c	SE	N	0	SE	CV I	2	P
P15.1C/P15.1 2397C/20809		1 6	7.50 74.58	10.09	-	25.62 99.17	23.99 0.83		-	0.132	1 6	50.00	0.00		73.75 0.00	24.61 0.00		1.000	1 6	0.00	0.00	-	0.00 0.00	0.00 0.00	- (.000
Habitat Mean	ıs		41.05	10.10		62.40	12.40		~			25.00	0.00		36.90	12.30	0			0.00	0.00		0.00	0.00	c)	
Fisher's Stouffer's		Power Power			Power						z Power Power				r-50% r-50%		P-value P-value	y	z Power Power			Power Power			P-value		z
P15.1C/P15.1 2397C/20809			0.00 24.38	9.70		55.00 88.00	23.89 7.72		-	0.005	1	0.00 1.25	1.25	4 5	39.38	24.33		0.391	1 4	0.00	0.00	4 5	0.00	0.00 0.00			.000
Habitat Mear	15		12.20	9.70		71.50	15.80		-			0.65	1.30		19.70	12.15	+			0.00	0.00	•	0.00	0.00	c	>	
Fisher's Stouffer's		Power Power			Sower						z Power Power				r-50% r-50%		P-value P-value	y	z Power Power			Power Power			P-value P-value		z
P15.1C/P15.1 2397C/20809			20.63	16.02		55.00 57.50	12.37		-	0.093	0 4	35.00	23.63		15.00	0.00		0.227	0 4	0.00	0.00	-	0.00	0.00		1	.000
Habitat Mean	ıs		20.60	16.00		56.25	12.40		-			35.00	23.60		7.50	0.00	+			0.00	0.00		0.00	0.00	c)	
Fisher's Stouffer's		Power Power			Power						z Power Power				r-50% r-50%		P-value P-value		z Power Power			Power Power			P-value P-value		2

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

Table C 5.360. Page 1. December 15, 1994

					Shell	Fragment	: e				_				Water						Zc	stera,	/Phyllost	adix			
Site Pair	Mvd	N	С	BE	N	0	SE	cv	Đ	P	N	¢	SE	N	٥	SE	CV D	1	P N	c	SE	N	0	SE	СV	D	P
P15.1C/P15. 2397C/20809		1 6	0.00 0.00	0.00		0.00	0.0		-	1.000	1 6	0.00	0.00		0.00	0.00	- 0		000 6	0.00	0.00	-	0.00	0.00		0 :	1.000
Habitat Mea	ns		0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00	0			0.00	0.00)	0.00	0.00		0	
Fisher's Stouffer'	5	Power Power				r-50% r-50%		P-va P-va			2 Power Power				r-50% r-50%		P-value P-value		z Pow				r-50% c-50%	I			z
P15.1C/P15. 2397C/20809			0.00	0.00	-	0.00	0.0		0	1.000	1	0.00	0.00	-	0.00	0.00		1.0	1 000 4	0.00	0.00	•	0.00	0.00	-	_	1.000
Habitat Mea	ns		0.00	0.00	1	0.00	0.0)	0			0.00	0.00		0.00	0.00	o			0.00	0.00)	0.00	0.00		0	
Fisher's Stouffer'	ş	Power Power				r-50% r-50%		P-va P-va			z Power Power				r-50% r-50%		P-valuc P-value		z Pow-				r-50% r-50%	E			z
P15.1C/P15. 2397C/20809		0 4	0.00	0.00	•	0.00	0.0			1.000	0 4	0.00	0.00	1 4	0.00	0.00	- - o		000 4	0.00	0.00	-	0.00	0.00	-	0	1.000
Habitat Mea	กร		0.00	0.00		0.00	0.0)	0			0.00	0.00		0.00	0.00	0			0.00	0.00)	0.00	0.00		0	
Fisher's Stouffer's	S	Power Power				r-50% r-50%	- 	P-va P-va			z Power Power				r-50% r-50%		P-value P-value		z Powe			Power	c-50% c-50%	F			z

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

Table C-5.360. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Estuarine. July 1991. Overstory removed August 1990. (Continued.)

					Sar	d and Mud								Total	Substrat	te												
air- Bais 16	N.:4	¥ī	<u> </u>	g _P	N	n	SE	CV	מ	P	N	c	SE	N	٥	SE	ÇΥ	P	P	N	С	ge	N	0	SE	(Q V	P
P15.1C/P15.1 2397C/20809			0.00	0.00	•	0.00	0.00	-	o	1.000	6	74.58	10.09	3	99.17	0.83	-	-	0.132									
Habitat Means	3		25.00	0.00	1	36.90	12.30		0			66.05	10.10		99.30	0.70		-										
Fisher's Stouffer's		ower				er-50% er-50%	f			yz	Power Power				r-50% r-50%		P-valu P-valu			Power Power				-50% -50%			value value	
P15.1C/P15.1 2397C/20809			0.00	1.25	4 5	39.38 0.00	24.33		-	0.391	1	0.00 25.62	9,49		94.38 88.00	2.58 7.72	-	-	0.005									
Habitat Means	3		0.65	1.30	}	19.70	12.15		+			12.80	9.50		91.20	5.15		-										
Fisher's Stouffer's		Power				er-50% er-50%	1			yz	Power Power				r-50% r-50%		P-valu P-valu			Power Power				r-50% r-50%			value value	
P15.1C/P15.1 2397C/20809			35.00	23.63		15.00 0.00	0.00		+	0.227	0 4	55.63	20.83	1	70.00 57.50	12.37	_	-	0.946									
Habitat Means	3		35.00	23.60)	7.50	0.00		+			55.60	20.80		63.75	12.40		-										
Fisher's Stouffer's		Power				er-50% er-50%	1 1			1	Power Power				r-50% r-50%		P-valu P-valu			Power Power				r-50% r-50%			value value	

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

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; P = probability value; dashes insufficient data.

				Alga1	Dive	sity I	ndex (a)		_			Alga	1 Tax	xa Richn	ess (b)							TO	tal Alga	e			
Site Pair	Mv	d N	C	88	N	0	SE	CV	D P	N	c	SE	N	0	SE	CA I	D.	P	N	С	\$E	N	0	SE	C	V D	P
19C/19 1642C/833 4537C/979	1 1 1	5 5 6	0.00 0.00 0.07	0.00 0.00 0.05	4	0.06 0.00 0.00	0.04 0.00 0.00	-	- 0.210 0 1.000 0.175	5 5 6	0.40 0.00 1.33	0.24 0.00 0.21	4	1.00 0.00 0.25	0.45 0.00 0.25	- (o	0.273 1.000 0.011	5 5 6	2.00 0.00 45.00	1.46 0.00 10.47	4	13.50 0.00 0.63	7.57 0.00 0.63	0 .	- 0	0.220 1.000 0.002
Habitat Mea	ans		0.02	0.02		0.02	0.01		+		0.58	0.15		0.42	0.23		-			15.67	4.00		4.70	2.73	3	+	
Fisher's Stouffer'	's	Power Power	0.008		Power Power				e 0.371 e 0.209	Power Power				r-50% r-50%		P-value P-value		0.060 0.033	Power Power				r-50% r-50%				0.014
19C/19 1642C/833 4537C/979		3 6 3	0.13 0.06 0.10	0.08 0.06 0.10	4	0.00 0.15 0.00	0.00 0.10 0.00	-	0.234 - 0.425 + 0.423	3 6 3	1.67 1.00 1.33	0.33 0.45 0.33	4	0.67 1.50 0.25	0.33 0.65 0.25		-	0.101 0.527 0.045	3 6 3	33.33 21.67 97.50	27.09 10.12 2.50	4	1.67 21.25 1.88	0.83 13.29 1.88			0.225 0.930 0.000
Habitat Mea	ans		0.10	0.08		0.05	0.03		+		1.33	0.37		0.81	0.41		+			50.83	13.23		8.30	5.33	3		
Fisher's Stouffer'	' s	Power Power	0.084		Power Power				e 0.247 e 0.274	Power Power				r-50% r-50%		P-value P-value			Power Power				r-50% r-50%				0.000
19C/19 1642C/833 4537C/979	3	1 5 3	0.28 0.06 0.22	0.06 0.17		0.22 0.14 0.26	0.13 0.14 0.18	-		1 5 3	2.00 1.00 2.33	0.32		2.20 1.67 3.25	0.97 0.67 1.93			0.341 0.718	1 5 3	7.50 18.50 55.83	10.39	3	39.50 12.50 31.88	21.35 5.77 14.73	,		0.949 0.328
Habitat Mea	ns		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 Stouffer's	's	Power Power	0.045 0.062		Power Power				e 0.375 e 0.334	Power Power	0.121 0.126			r-50% r-50%	0.529			0.232 0.216	Power Power	0.08			r-50% r-50%	0.126 0.168			0.276 y 0.189

!a; Modified Shannon Index.
fb: Taxs richness calculations era explained in the methods.

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

Table C-5.361. Page 1. December 15, 1594

				To	otal I	nverteb	rates							Rock							Perennials	(P)	
Site Pair	Mv	1 N	c	SE	N	0	SE	CA D	P	N	С	SE	N	0	SE	CA D	P					2	
19C/19 1642C/833 4537C/979		5 5 6	6.50 0.00 1.67	2.69 0.00 1.67	4	1.50 26.25 2.50	1.00 15.70 1.44		0.20.	5 5 6	91.50 99.50 53.33	2.45 0.50 11.79	4	85.00 73.75 96.88	8.37 15.70 1.87	- + - +	0.2.4	5 5	0.50 0.00 45.00	0.50 0.00 10.47	4 0.00	0.00 -	- 0.386 o 1.000 + 0.002
Habitat Mea	ıns		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 Stouffer'	s	Power Power	0.066		Power Power		0.101			Power Power	0.070			r-50% r-50%	0.798 0.850			Power Power			Power-50% Power-50%	P~valı P~valı	
19C/19 1642C/833 4537C/979	2	3 6 3	19.17 6.67 0.00	7.12 3.86 0.00	4	27.50 42.50 3.13	20.46 19.87 1.88		0.949 0.089 0.185	3 6 3	47.50 71.67 2.50	20.05 11.65 2.50	4	70.83 36.25 95.00	21.03 16.47 1.77	 - + 	0.311 0.014 0.010	3 6 3	29.17 16.25 97.50	25.51 8.06 2.50	4 17.50		+ 0.292 - 0.888 + 0.000
Habitat Mea	ns		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 Stouffer'	s	Power Power			Power Power			P-value P-value		Power Power				r-50% r-50%		-value -value	0.011× 0.014	Power Power			Power-50% Power-50%	P~valu	
19C/19 1642C/833 4537C/979	3	1 5 3	60.00 8.50 0.83	5.57 0.83	3	22.50 61.67 4.37	12.60 30.97 4.37	- +	0.111 0.701	1 5 3	32.50 70.50 43.33	15.56 21.03	3	38.00 25.83 63.75	18.56 25.83 12.27	 - + 	0.110 0.3'3	1 5 3	2.50 17.50 47.50	10.78 22.41	3 1.67	8.82 - 0.83 - 6.85 -	*
Habitat Mea	nş		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 Stouffer'	s	Power Power	0.352		Power Power			P-value P-value		Power Power	0.073 0.037			r-50% r-50%	0.274 I			Power Power	0.218		Power-50% Power-50%	0 370 P-valu	

x At least one site pair p-value < 0.100 in opposite direction of overell tests. y Direction of difference between habitat means is different than direction of overell tests. 2 only one site pair.

Table C-5.361. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Exposed Rocky. June 1991. Overstory removed June 1990. (Continued.)

					Ann	wale (a)	ı							Epher	merals (A	E)												
Site Pair	Mvd	N	С	SE	N	0	SE		CA E	P	N	c	SE	N	O	BE	CV D)	P	N	С	SE	N	0	SE	C.	פיק	P
19C/19 1642C/833 4537C/979	1 1 1	5 5 6	1.50 0.00 0.00	1.50 0.00 0.00	4	11.50 0.00 0.63	7.5 0.0 0.6	10	- c	0.297 1.000 0.391	5 5 6	0.00 0.00 0.00	0.00 0.00 0.00	4	11.50 0.00 0.00	7.57 0.00 0.00	- 0	> 1	.186 .000 .000									
Habitat Mea	ıns		0.50	0.50		4.03	2.7	3	-			0.00	0.00		3.83	2.53	-	-										
Fisher's Stouffer'		Power Power	0.086 0.118			r-50% r-50%				0.206 0.161	Power Power	0.009 0.004			er-50% er-50%		P-value P-value			Power Power			Power Power			P-va P-va		
19C/19 1642C/833 4537C/979	2	3 6 3	4.17 5.42 0.00	2.20 5.42 0.00	4	0.83 3.75 0.00	0.8 2.1 0.0	.7		0.316 0.797 1.000	3 6 3	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- 0	o 1	.000									
Habitat Mea	ns		3.20	2.53		1.53	1.0	0	+			0.00	0.00		0.00	0.00	C)										
Fisher's Stouffer'	S	Power Power	0.209 0.127			r-50% r-50%	0.156 0.142			0.329 0.350	Power Power				er-50% er-50%		P-value P-value			Powe≃ Power			Power Power			P-ve P-ve		
19C/19 1642C/833 4537C/979		1 5 3	5.00 1.00 8.33	0.61 5.07	3	23.50 10.83 11.87	14.0 6.5 11.0	1		0.127 0.958	1 5 3	0.00 0.00 4.17	0.00 4.17	3	18.00 7.50 7.50	11.27 7.50 7.50		- 0	.423).907									
Habitat Mea	ns		4.77	2.85		15.40	10.5	57	-			1.40	2.10		11.00	8.77	-	-										
Fisher's Stouffer'	s	Power Power	0.174 0.156			r-50% r-50%	0.342 0.417			0.137 0.211	Power Power	0.050 0.064			er-50% er-50%		P-value P-value).321).309	Power Power			Power Power			P-va P-va		

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x At least one site pair p-value < 0.100 in opposite direction of overal; tests, y Direction of difference between habital means is different than direction of overal! tests, z Only one site pair.

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; P = probability value; dashes = insufficient data.

				1	otal	Chlorophy	rta					Morph	nologi	cal G	Froup: B	laded Gr	eens					Bla	ded G	reens (AE	(a)			
Site Pair	Mvč		c	SE	N	0	52	CA	D	P	N	C	ŞE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	Ċ	7 D	P
19C/19 1642C/833 4537C/979	1	5 5 6	0.00 0.00 0.00	0.00 0.00 0.00	4	11.50 0.00 0.00	7.57 0.00 0.00	-	0	0.186 1.000 1.000	5 5 6	0.00 0.00 0.00	0.00	4	0.50 0.00 0.00	0.50 0.00 0.00	-	0	0.374 1.000 1.000	5 5 6	0.00	0.00	4	0.50 0.00 0.00	0.50 0.00 0.00) -	- 0	0.374 1.000 1.000
Habitat Mea Fisher's Stouffer'		Power Power	0.00 0.009 0.006	0.00	Power Power					0.275 0.365	Power Power	0.00	0.00		0.17 r-50% r-50%		-valu		0.409	Power Power	0.00		Powe	0.17 r-50% r-50%		P-ve		0.409 0.408
19C/19 1642C/833 4537C/979	2	3 6 3	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00		0	1.000 1.000 1.000	3 6 3	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	3 6 3	0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00) -	- 0	1.000 1.000 1.000
Habitat Mea Fisher's		Power	0.00	0.00	Power	0.00		P-val		0.655 0.500	Power	0.00	0.00	Powe	0.00 r-50% r-50%		-valu		0.655	Power	0.00		Powe	0.00 r-50% r-50%		P-v		0.655
Stouffer' 19C/19 1642C/833 4537C/979	3	Power 1 5 3	0.00 0.00 3.33	0.00	5 3	14.00 0.00 6.88	10.20 0.00 6.88	-	- o	1.000	1 5 3	0.00 0.00 3.33	0.00	5 3	14.00 0.00 6.25	10.20 0.00 6.25	-	-	1.000	5 3	0.00 0.00 3.33	0.00 3.33	3	14.00 0.00 6.25	10.20 0.00 6.25	5	- 0	1.000
Habitat Mea		Power	1,10 0.001 0.000	1.65	Power	6.97 r-50% r-50%		P-val		0.551 0.446	Power Power	0.001 0.001	1.65		6.77 r-50% r-50%		P-valı		0.561 0.457	Power Power	0.00		Powe	6.77 er-50% er-50%		P-V		0.561 0.457

[a] KOTHMATRIA, MODOWIONA, Diva and Ulfatia.

X At least one site pair p-value < 0.20 in opposite direction of ownail tests.

y Divaction of difference becames habitat means is different than direction of ownail tests.

Y Only one site pair.

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2 0027 018 41-4	,	м	orph:logi	cal G	roup:	Fine Fi	lamento	us Gre	eens	ı			Act	osip	honia sp.	(A)					Cl	aetomor	pha/R	hizoclon	ium (A)	(a)		
De				A R	N	0	Ф		D	P	N	c	SE	Ŋ	0	SE	cv	D	Þ	N	С	SE	N	0	SE	C	D D	P
19C/19 1642C/833 4537C/979	1	5 5 6	0.00 0.00 0.00	0.00	4	11.00 0.00 0.00	7.14 0.00 0.00		0	0.185 1.000 1.000	5 5 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	5 5 6	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00		- 0	1.000 1.000 1.000
Habitat Mean	ns	Power	0.00	0.00	Power	3.67	2.37	2-valu	- 1e	0.274	Power	0.00	0.00	Powe	0.00 er-50%		P-val		0.655	Power	0.00	0.00	Power	0.00 r-50%		P-v		0.655
Fisher's Stouffer's	s	Power	0.005		Power			P-valu			Power			Powe	:r-50%	I	?-val	lue	0.500	Power				c-50%				0.500
19C/19 1642C/833 4537C/979	2	3 6 3	0.00	0.00	4	0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	3 6 3	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-		1.000	3 6 3	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00	0.00 0.00 0.00		- 0	1.000 1.000 1.000
Habitat Mean	ıns		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Ś	Power Power			Power			P-valu P-valu		0.655 0.500	Power Power				er-50% er-50%		P-va P-va		0.655 0.500	Power Power				r-50% r-50%		P-v		0.655
19C/19 1642C/833 4537C/979		1 5 3	0.00	0.00	3	0.00	0.00 0.00 0.63	-		1.000 0.391	5 3	0.00 0.00 0.00	0.00	3	0.00	0.00 0.00 0.00	-	o	1.000	1 5 3	0.00 0.00 0.00	0.00	3	0.00 0.00 0.00	0.00 0.00 0.00			1.000
Habitat Mea	ins		0.00	0.00		0.20	0.20		-			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer'		Power Power			Power					0.325 0.228	Power Power				er-50% er-50%				0.597 0.500	Power Power				r-50% r-50%				0.597 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 mabitat means is different than direction of overall tests.

y Only one site pair.

Table C-5.362. Algal Percent Cover. Chlorophyta. Prince William Sound. Exposed Rocky. June 1991. Overstory removed June 1990. (Continued.)

				C1	adopho	ora sp. (AB)						υ	lothz	rix sp. (A	AB)							τ	Jrospo	ra sp. ()	AE)				
Site Pair	Mvd		С	SE	N	0	SE	ÇV	D	P	N	С	SE	N	0	SE	ÇV	D	P	N	С		SE	N	0	Se		ÇV I	,	P
19C/19 1642C/833 4537C/979	1 1 1	5 5 6	0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	5 5 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.00 1.00 1.00) 5	0. 0. 0.	0.0	0.00	4	11.00 0.00 0.00	7.14 0.00 0.00	0	- 0	o 1	0.185 L.000 L.000
Habitat Mea	ns		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.	00	0.00		3.67	2.37	Į			
Fisher's Stouffer'	S	Power			Power			P-val P-val		0.655	Power Power				r-50% r-50%		e-val		0.65			0.010 0.005			r-50% r-50%					0.274
19C/19 1642C/833 4537C/979	2	3 6 3	0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	3 6 3	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.00 1.00 1.00) 6	0. 0. 0.	00	0.00 0.00 0.00	4	0.00	0.00 0.00 0.00	0	- (0 1	1.000 1.000 1.000
Habitat Mea	ກຮ		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.	00	0.00		0.00	0.00	3	(0	
Fisher's Stouffer'		Power			Power			P-val P-val		0.655 0.500	Power Power				er-50% er-50%		P-val P-val		0.65						r-50% r-50%					0.655 0.500
19C/19 1642C/833 4537C/979	3	1 5 3	0.00 0.00 0.00	0.00	3	0.00 0.00 0.63	0.00 0.00 0.63	-	0	1.000	1 5 3	0.00 0.00 0.00	0.00	3	0.00	0.00 0.00 0.00	-	0 0 0	1.00	0 5	0. 0.	00	0.00	3	0.00 0.00 0.00	0.00 0.00 0.00	0	- (1.000
Habitat Mea	ns		0.00	0.00		0.20	0.20		-			0.00	0.00		0.00	0.00		0			0.	00	0.00)	0.00	0.00	٥	•	0	
Fisher's		Power			Power					0.325	Power Power				er-50% er-50%		P-val P-val		0.59		_				r-50% r-50%					0.597 0.500

x At least one site pair p-value < 0.100 in opposits direction of overal) trets, y direction of difference between habitst means is different than direction of overall tests. Z ORIO one site pair.

Table C-5.362. Page 3. December 15, 1994

		Mo	rphologic	al Gr	oup:	Tubular	and Sac	cate	Gre	ens		в1:	idingi	a/Ent	eromorphs	L (AE) (a)											
•	eس	N	С	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	ÇV I)	P	N	¢	SE	N	0	SE	CA I)	P
19C/19 1642C/833 4537C/979	1	5 5 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00) -	0	1.000 1.000 1.000	5 5 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- 0	5 1	1.000 1.000 1.000									
Habitat Mea	ins		0.00	0.00		0.00	0.0)	0			0.00	0.00		0.00	0.00)										
Fisher's Stouffer	s	Power Power				r-50% r-50%				0.655 0.500	Power Power				r-50% r-50%		-value -value			Power Power			Power Power			-value -value		
19C/19 1642C/833 4537C/979	2	3 6 3	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.0	0 -	0	1.000 1.000 1.000	3 6 3	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- (o :	1.000 1.000 1.000									
Habitat Mea	ans		0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00	•	D										
Fisher's Stouffer		Power Power				r-50% r-50%				0.655 0.500	Power Power				r-50% r-50%		P-value P-value		0.655 0.500	Power Power			Power Power			-value -value		
19C/19 1642C/833 4537C/979	3	1 5 3	0.00 0.00 0.00	0.00	3	0.00	0.0 0.0 0.0	0 -		1.000	1 5 3	0.00 0.00 0.00	0.00	3	0.00 0.00 0.00	0.00	- 0		1.000									
Habitat Me	ans		0.00	0.00	1	0.00	0.0	0	Φ			0.00	0.00		0.00	0.00		0										
Fisher's Stouffer		Fower Fower				r-50% r-50%				0.597 0.500	Power Power				er-50% er-50%		P-valu P-valu			Power			Power Power			-value -value		

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

Table C-5.363. Algal Parcent Cover. Thasophyts. 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; desires = insufficient data.

					Total	Phaecpl	yta					Моз	rphologi	ca1	Group:	Bladed Br	OWILE						Alar	ia sp. (?	A)			
Site Pair	Mvd	l N	С	SE	N	0	SE	CV	D	P	N	С	SE	Ŋ	0	SE	CV	ם	P	N	С	SE	N -	0	3E	c	V D	P
19C/19 1642C/833 4537C/979	1	5 5 6	0.50 0.60 40.42	0.50 0.00 9.69	4	1.(0 0.(0 0.(0	1.00 0.00 0.00	-	0	0.815 1.000 0.003	5 5 6	0.50 0.00 40.42	0.50 0.00 9.69	4	1.00 0.00 0.00	1.00 0.00 0.00		0	0.815 1.000 0.003	5 5 6	0.00	0.00	4	0.00	0.00		- 0	1.000 1.000 1.000
Habitat Mea	ins		11.63	3.40		0.3	0.33		+			13.63	3.40		0.33	0.33					0.00	0.00		0.00	0.00		٥	
Fisher's Stouffer'	's	Power Power				r-50% r-50%		P-valı P-valı		0.015 0.007	Power Power				er-50% er-50%				0.015	Pover Pover				r-50% r-50%				0.655
19C/19 1642C/833 4537C/979	2 2 2	3 6 3	30.00 15.83 81.33	28.76 8.03 13.10	4	0. £3 13.75 0. ¢0	0.83 12.93 0.00	-	+	0.352 0.747 0.027	3 6 3	27.50 15.83 83.33	26.26 8.03 13.10	4	0.83 13.75 0.00	0.83 12.93 0.00	-	+	0.351 0.747 0.027	3 6 3	0.00	0.00	4	0.00	0.00)	- o - o	1.000
Habitat Mea	ans		43.C3	16.63		4.87	4.57		+			42.20	15.80		4.87	4.57		+			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	s	Power Power				r-50% r-50%		P-valu P-valu			Power Power				er-50% er-50%		-valu		0.029	Pover Pover				r-50% r-50%				0.655
19C/19 1642C/833 1537C/979	3 3	1 5 3	2.50 11.50 19.17	7.89 13.41	3	17.00 0.83 17.50	10.35 0.83 6.37	-	+	0.413 0.965	1 5 3	2.50 11.50 18.33	7.89 13.64	3	13.00 0.83 15.63	6.86 0.83 5.34	-		0.413 0.991	1 5 3	0.00	0.00		0.00	0.00) .	- o	1.000
Habitat Mca	ដាន		11.07	10.65		11.77	5.87		+			10.77	10.75		9.80	4.33		-			0.00	0.00		0.00	0.00		0	1.000
Fisher's Stouffer'		Power Power	0.058 0.088			r-50% r-50%	0.240				Power Power	0.05			er-50% er-50%	0.224 F 0.301 E	-valu -valu		0.336 0.339	Pover Pover			Power Power	r-50% r-50%		P-ve	alue	0.597 0.500

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

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				Tota	l Pust	s garde	meri (P)					Ad	iult Fu	cus g	gardneri	(P) (> 2	cm)				Juve	nile F	ncae (L (P] (<=			301 .3. 144
Site Pair	Μv	d N	=	SE	N	0	SE	CV	D	P	N	c	SE	N	0	ge	CV I	<u> </u>	P	2	c	SE	N	0	1.	ראין	D	P
19C/19 1642C/833 4537C/979	1 1 1	5 6	(.50 (.00 4(.42	0.50 0.00 9.69	4	1.00 0.00 0.00	1.00 0.00 0.00	-	0	0.815 1.000 0.003	5 5 6	0.00 0.00 38.33	0.00 0.00 9.14	4	0.00 0.00 0.00	0.00		c	1.000 1.000 0.002	5 5 6	0.50 0.00 2.08	0.50 0.00 1.19	4	1.00 0.00 0.00	1.00 0.00 0.00	-	Q	0.815 1.000 0.092
Habitat Mea	ns		13.63	3.40		0.33	0.33		+			12.77	3.03		0.00	0.00		-			0.87	0.57		0.33	0.33		_	
Fisher's Stouffer'	s	Power Power			Power Power					0.015 0.007	Power Power				er-50%		P-value P-value		0.013	Power Power	0.075			-50% -50%		P-valu P-valu		
19C/19 1642C/833 4537C/979	2	3 6 3	21.50 15.83 63.33	26.26 8.03 13.10	4	0,83 13.75 0.60	0.83 12.93 0.00	-	+	0.351 0.747 0.027	3 6 3	27.50 12.08 83.33	26.26 8.07 13.10	4	0.00 13.75 0.00	0.00 12.93 0.00	 	-	0.347 0.994 0.027	3 6 3	0.00 3.75 0.00	0.00 3.28 0.00	4	0.83	0.83 0.00 0.00	-	+	0.423 0.233 1.000
Habitat Mea	ns		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 Stouffer's	s	Power Power			Power Power					0.029 0.012	Power Power				r-50% r-50%		P-value P-value			Power	0.000		Power		0.000			
19C/19 1642C/833 4537C/979		1 5 3	2.50 11.50 18.33	7.89 13.64	3	13.0 ₀ 0.8 ₃ 15.6 ₃	6.86 0.83 5.34	-		0.413 0.991	1 5 3	2.50 8.00 18.33	4.96 13.64		13.00 0.83 15.63	6.86 0.83 5.34	 - +		0.431 0.991	1 5 3	0.00 3.50 0.00	3.50 0.00	3	0.00	0.00 0.00 0.00	-	+	0.374
Habitat Mean	nş		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 Stouffer's	s	Power Power	0.058 0.083		Power Power		0.191 1 0.274 1			0.336 0.339	Power Power				r-50% r-50%	0.249 I 0.341 F				Power Power			Power			P-va		

x At least one site pair p-value < 0.100 in opposite direction of overall tests. y Direction of difference between habitat means is different than direction of overall tests. 2 Only one site pair.

Table C-5.363. Algal Percent Cover. Phaeophyta. Prince William Sound. Exposed Rocky. June 1991. Overstory removed June 1990. (Continued.)

				Pu	cus s	Stipes (P)	(a)				Me	orphologi	cal Gr	onb:	Coarse F	'ilament	ous Br	ow	na ac			Ana.	lipus	japonicu	9 (P)			
Site Pair	Mvd	a n	c	SE	N	0	SE	CΛ	D	P	N	C	SE	N	0	SE	ÇV I	D	P	N	c	SE	N	0	SE		CV D	P
19C/19 1642C/833 4537C/979	1	5 5 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- - -	0	1.000 1.000 1.000	5 5 6	0.00 0.00 0.00	0,00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	5 5 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00	0	- 0	1,000 1.000 1.000
Habitat Mea	ins		0.00	0.00	ı	0.00	0.00		0			0.00	0,00		0.00	0.00		0			0.00	0.00		0.00	0.00	0	0	
Fisher's Stouffer'	s	Power Power				er-50% er-50%				0.655 0.500	Power Power				r-50% r-50%		-valu		0.655 0.500	Power Power				:-50% :-50%				0.655 0.500
19C/19 1642C/833 4537C/979		3 6 3	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	3 6 3	2.50 0.00 0.00	2.50 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- - -	0	0.423 1.000 1.000	3 6 3	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	0	- 0	1.000 1.000 1.000
Habitat Mea	ırıs		0.00	0.00	ı	0.00	0.00		0			0.83	0.83		0.00	0.00		+			0.00	0.00		0.00	0.00	0	0	
Fisher's Stouffer'	s	Power Power				er-50% er-50%				0.655 0.500	Power Power				er-50% er-50%		e-valu e-valu		0.437	Power				c~50% c-50%				0.655 0.500
19C/19 1642C/833 4537C/979	3	1 5 3	0.00 0.00 0.00	0.00 0.00	3	0.00 0.00 0.00	0.00 0.00 0.00		ō	1.000 1.000	1 5 3	0.00 0.00 0.00	0.00 0.00	3	0.00 0.00 1.25	0.00 0.00 1.25	- - -		1.000 0.391	1 5 3	0.00 0.00 0.00	0.00 0.00	3	0.00 0.00 0.00	0.00 0.00 0.00	0	- o - o	1.000
Habitat Mea	ans		0.00	0.00)	0.00	0.00		0			0.00	0.00		0.43	0.43		-			0.00	0.00		0.00	0.00	0	0	
Fisher's Stou f fer'	's	Power Power				er-50% er-50%				0.597 0.500	Power Power				er-50% er-50%		P-valu P-valu		0.325 0.228	Power Power				r-50% r-50%				0.597 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 habital means is different than direction of overall tests. z. Univ. one elfo pair.

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				Di	ctyosi	iphon sp.	(A)					Mye	lophy	cus/8	Cytosiph	on (A) (c	a)			1	iorpholo	gical (Group:	Fine F	ilament	B.VO	Brown	ıs.
Site Pair	Mvd		c	SE	N	0	SE	CV	D	P	N	С	SE	N	٥	SE	CV D		P	N	c	SE	N	0	SE	С	V D	P
19C/19 1642C/833 4537C/979	1 1 1	5 5 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- -	o	1.000 1.000 1.000	5 5 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- 0 - 0	1	.000 .000 .000	5 5 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00	0	- 0	1.000 1.000 1.000
Habitat Mea	ıns		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	0				0.00	0.00	1	0.00	0.00	0	0	
Fisher's Stouffer'	s	Power Power				r-50% r-50%		P-val P-val		0.655 0.500	Power Power				r-50% r-50%		-value -value		.655 .500	Power Power			Power Power					0.655 0.500
19C/19 1642C/833 4537C/979	2	3 6 3	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	ō	1.000 1.000 1.000	3 6 3	2.50 0.00 0.00	2.50 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- + - 0 - 0	1	.000	3 6 3	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.0	0 0	- 0	1.000 1.000 1.000
Habitat Mea	ins		0.00	0.00		0.00	0.00		0			0.83	0.83		0.00	0.00	+				0.00	0.00	1	0.00	0.0	0	0	
Fisher's Stouffer'	' 5	Power Power				r-50% r-50%				0.655 0.500	Power Power				r-50% r-50%		-value -value		.437	Power Power			Power Power					0.655 0.500
19C/19 1642C/833 1537C/979	3	1 5 3	0.00 0.00 0.00	0.00	3	0.00 0.00 0.00	0.00 0.00 0.00	-		1.000 1.000	1 5 3	0.00 0.00 0.00	0.00	3	0.00 0.00 1.25	0.00 0.00 1.25	- 0 - 0		.000	1 5 3	0.00 0.00 0.83	0.00	3	4.00 0.00 0.63	4.0 0.0 0.6	0 3		1.000 0.846
Habitat Mea	ins		0.00	0.00		0.00	0.00		0			0.00	0.00		0.43	0.43	-				0.27	0.40)	1.53	1.5	3	-	
Fisher's Stouffer'	's	Power Power				r-50% r-50%				0.597 0.500	Power Power				r-50% r-50%		-value -value			Power Power			Power Power					0.540 y 0.433

⁽a! Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of 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. Algal Percent Cover. Phaeophyta. Prince William Sound. Exposed Rocky. June 1991. Overstory removed June 1990. (Continued.)

			Fir	e Fil	amento	us Brown	e (AE)	(b)				Morph	ologi	al G	roup: Sa	ccate B	cowns	ı			:	Leather	sia/C	olpomenia	(A) (a	1)		
Site Pair	Mvd	1 N	c	SE	N	0	SE	ÇV	D	P	N	С	SE	N	٥	SE	ĊΛ	D	P	N	С	SE	N	0	SE		CV D	P
19C/19 1642C/833 4537C/979	1	5 5 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	5 5 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00		0	1.000 1.000 1.000	5 5 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00)	- 0	1.000 1.000 1.000
Eabitat Mea	ກຮ		0.00	0.00		0.00	0.00	1	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer'	s	Power Power			Power Power					0.655 0.500	Power Power				r-50% r-50%		P-val P-val		0.655 0.500	Power Power				r-50% r-50%				0.655 0.500
19C/19 1642C/833 4537C/979	2	3 6 3	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00	-	o	1.000 1.000 1.000	3 6 3	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	O	1.000 1.000 1.000	3 6 3	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	С	- o - o	
Habitat Mea	ıns		0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	0	0	
Fisher's Stouffer'	ş	Power Power			Power Power			P-val P-val		0.655 0.500	Power Power				r-50% r-50%		P-val P-val		0.655 0.500	Power Power				r-50% r-50%				0.655 0.500
19C/19 1642C/833 4537C/979	3	5 3	0.00 0.00 0.83	0.00 0.83	3	4.00 0.00 0.63	4.00 0.00 0.60	- (1.000 0.846	1 5 3	0.00 0.00 0.00	0.00	5 3 4	0.00 0.00 0.00	0.00 0.00 0.00	-	o	1.000 1.000	1 5 3	0.00 0.00 0.00	0.00		0.00 0.00 0.00	0.00 0.00 0.00	D	- 0 - 0	
Habitat Mca	ns		0.27	0.40		1.53	1.53	ı	-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00	0	0	
Fisher's Stouffer'	5	Power Power			Power Power			P-val P-val		0.540 y 0.433	Power Power				r-50% r-50%		P-val P-val		0.597 0.500	Power Power				r-50% r-50%				0.597

⁽b) Elachista, Ectocarpus and Pilayella.

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				Sora	nther	a ulvoide	a (A)					Morph	ologic	al G	roup: Cru	stose B	rowns					Ralfs	ia/Pet	roderma	(P) (A)			
Site Pair	Mvc	1 N	С	SE	N	0	SE	CV	D	Þ	N	c	SE	N	0	SE	CA 1	D	P	N	С	SE	Ŋ	0	SE	C۷	D	P
19C/19 1642C/833 4537C/979	1	5 5 6	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	5 5 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- ,	0	1.000 1.000 1.000	5 5 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	_	0	1.000 1.000 1.000
Habitat Mea	ins		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	s	Power Power				r-30% r-30%				0.655 0.500	Power Power				er-50% er-50%		?-valu ?-valu		0.655 0.500	Power Power				c-50% c-50%				0.655 0.500
19C/19 1642C/833 4537C/979	2	3 6 3	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	3 6 3	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00		Ó	1.000 1.000 1.000	3 6 3	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	o	1.000 1.000 1.000
Habitat Mea	ins		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	s	Power Power				r-50% r-50%		P-val P-val		0.655 0.500	Power Power				er-50% er-50%		P-valu P-valu		0.655 0.500	Power Power				r-50% r-50%				0.655 0.500
19C/19 1642C/833 4537C/979		1 5 3	0.00 0.00 0.00	0.00	3	0.00 0.00 0.00	0.00 0.00 0.00	-		1.000 1.000	1 5 3	0.00 0.00 0.00	0.00	3	0.00 0.00 0.00	0.00 0.00 0.00	-		1.000	1 5 3	0.00 0.00 0.00	0.00 0.00	3	0.00 0.00 0.00	0.00 0.00 0.00	-	o	1.000
Habitat Mea	ins		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		o	
Fisher's Stouffer'	' S	Power Power				r-50% r-50%				0.597 0.500	Power Power				er-50% er-50%		P-valu P-valu		0.597 0.500	Power				r-50% r-50%				0.597 0.500

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

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

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; standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes insufficient data.

					rotal Rho	doph	yta					Mort	holog	ical	Group: I	Bladed R	eds						Bangia	а вр. (А	8)			
Site Pair	Mvd	1 N	С	SE	N	0	SE	CV	D	P	N	С	SE	N	o	SE	CV I	D	P	N	С	SE	N	0	SE	¢	V D	P
19C/19 1642C/833 4537C/979	1 1 1	5 5 6	1.50 0.00 4,58	1.50 0.00 3.06	4 (00).00).63	1.00 0.00 0.63		o	0.888 1.000 0.440	5 5 6	1.50 0.00 0.00	1.50 0.00 0.00	4	1.00 0.00 0.00	1.00 0.00 0.00	- + - c	0	0.888 1.000 1.000	5 5 6	0.00 0.00 0.00	0.00	4	0.00	0.00		- 0	1.000 1.000 1.000
Habitat Mea	ns		2.03	1.53	(.53	0.53		+			0.50	0.50		0.33	0.33	4	+			0.00	0.00		0.00	0.00		0	0.655
Fisher's Stouffer'	s	Power Power			Power-50 Power-50					0.419	Power Power				r-50% r-50%		e-value e-value		0.623 0.485	Power Power			Power Power					0.655
19C/19 1642C/833 4537C/979	2	3 6 3	3.33 5.83 14.17	1.67 5.83 14.17	4	0.83 7.50 1.88	0.83 2.70 1.88	-	-	0.349 0.386 0.470	3 6 3	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- 0	0	1.000 1.000 1.000	3 6 3	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00		- 0	1.000 1.000 1.000
Habitat Mea	ins		7.77	7.23	:	3.40	1.80		-			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	s	Power			Power-5			P-val P-val		0.338	Power Power				r-50% r-50%		e-value e-value		0.655 0.500	Power Power			Power Power					0.655 0.500
19C/19 1642C/833 4537C/979	3	1 5 3	5.00 7.00 33.33	5.78 30.87	3 1	8.50 1.67 7.50	4.58 6.51 3.68	-	- - +	0.574 0.457	1 5 3	5.00 0.00 0.00	0.00		5.00 8.33 1.25	3.45 7.12 1.25	- (0.274 0.391	1 5 3	0.00 0.00 0.00	0.00	3	0.00 7.50 0.00	0.00 7.50 0.00		- o 	0.423
Habitat Mea			15.10	18.35		9.23	4.93		+			1.67	0.00		4.87	3.97		-			0.00	0.00		2.50	2,50	1	-	
Fisher's Stouffer'		Power Power			Power-5 Power-5					0.458 0.357	Power Power	0.087			er-50% er-50%		P-value P-value		0.124	Power Power			Power					0.343

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

Phycodrys riggii (A) Palmaria spp. (A) Gigartinaceae Group (P) (a) CV D N С SE ٥ SE P CA D P CV D P С Site Pair Mvd N C SE 0.00 0.00 O 1.000 1.000 0.00 0.00 0.00 0.00 0 0.374 0.00 0.00 1.00 1.00 19C/19 1.000 0.00 0.00 - 0 1.000 0.00 0.00 - 0 1.000 0.00 0.00 0.00 0.00 0 1642C/833 0.00 0.00 0.00 0.00 0.00 0.00 - 0 1.000 0.00 1,000 0.00 - 0 1.000 0.00 0.00 4 0.00 0.00 0 4537C/979 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0.00 0.00 0.00 0.00 0.00 0.00 0.33 0.33 Habitat Means Power-50% --- P-value 0.655 Power-50% --- P-value 0.655 Power Power-50% --- P-value 0.409 Power ---Fisher's Power Power-50% --- P-value 0.500 Power-50% --- P-value 0.500 Power ---Power-50% --- P-value 0.408 Power ---Stouffer's Power - o 1.000 0.00 1.000 0.00 0.00 0.00 0.00 0.00 0.00 0 0.00 0.00 1.000 0.00 0.00 - o 1.000 - o 1.000 0.00 1.000 0.00 0.00 0.00 0.00 0.00 0 0.00 4 0.00 0 1.000 0.00 1642C/833 0.00 0.00 0.00 6 0.00 0.00 _ 0 1.000 3 0.00 0.00 4 0.00 - 0 0.00 0.00 2 0.00 0.00 0.00 0.00 1.000 0.00 4537C/979 3 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0.00 0.00 0.00 0.00 Habitat Means Power-50% --- P-value 0.655 --- P-value 0.655 --- P-value 0,655 Power-50% Power Power-50% Power Fisher's Power Power-50% --- P-value 0.500 Power-50% --- P-value 0.500 Power --- P-value 0.500 Power ---Power-50% Power Stouffer's 0.00 0.00 3.50 3.50 0.00 0.00 0.00 5 0.00 - 0 190/19 0.00 - o 1.000 - o 1.000 0.00 0.00 0.00 0.00 0.00 0.00 - 0 1.000 0.00 3 0.00 0.00 0.00 1642C/833 0.00 0.00 - - 0.391 0.00 0.00 0.00 0.00 - o 1.000 1.25 - 0 0.00 1.000 0.00 0.00 4 1.25 4537C/979 3 3 0.00 0.00 4 0.00 0.00 0.00 0.00 0.00 0.00 0.00 1,60 1.60 0.00 0.00 0.00 0.00 Habitat Means --- P-value 0.597 --- P-value 0.325 Power Power-50% Power-50% --- P-value 0.597 Power Power-50% Fisher's Power ---0.228 Power ---Power-50% --- P-value 0.500 Power-50% --- P-value ------ P-value 0.500 Power Power-50% Stouffer's Power

(a) Chondrus, Tridaea, Mastocarpus and Rhodoglossum.

x At least one wite pair p-value < 0.100 in opposite direction of overall tests.</p>
y Direction of difference between habitat means is different than direction of overall tests.
2 Only one size pair.

Table C 5.364. Page 1. December 15, 1994

Table C-5.364. Algal Percent Cover. Rhodophyta, Prince William Sound, Exposed Rocky, June 1991, Overstory removed June 1990. (Continued.)

				1	Porphy	ra sp. ()	١)					T	okidad	lendr	on kurile	nsis (A)	ı			1	orpholo	ogical G	roup:	Coarse	s Filamen	nto	ous Red	8
Site Pair	Mvč	N N	C	SE	Ŋ	0	SE	CV	D	P	N	С	SE	N	٥	SE	CV	D	P	N	С	SE	N	0	SE	_	CV D	P
19C/19 1642C/833 4537C/979	1 1 1	5 5 6	1.50 0.00 0.00	1.50 0.00 0.00	4	0.00	0.00 0.00 0.00	- - -	0	0.374 1.000 1.000	5 5 6	0.00 0.00 0.00	0.00	5 4 4	0.00	0.00 0.00 0.00	-	O	1.000 1.000 1.000	5 5 6	0.00 0.00 4.58	0.00 0.00 3.06	4	0.00 0.00 0.63	0.00 0.00 0.63	3	- 0	1.000 1.000 0.440
Habitat Mea	ıns		0.50	0.50		0.00	0.00		-			0.00	0.00		0.00	0.00		0			1.53	1.03		0.20	0.20)	+	
Fisher's Stouffer'	s	Power				-50% -50%				0.409	Power Power				r-50% r-50%		-val:		0.655 0.500	Power Power	0.00			r-50% r-50%				0.446
19C/19 1642C/833 4537C/979	2	3 6 3	0.00 0.00 0.00	0.00	4	0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	3 6 3	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	3 6 3	3.33 5.83 14.17	1.67 5.83 14.17	4	0.83 7,50 1.88	0.83 2.70 1.88	3		0.349 0.386 0.470
Habitat Mea	ans		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			7.77	7.23		3.40	1.80	0	-	
Fisher's Stouffer'	's	Power				c-50% c-50%				0.655 0.500	Power Power				r-50% r-50%		P-valı P-valı		0.655 0.500	Power Power	0.25 0.19			r-50%				0.338
19C/19 1642C/833 4537C/979	3	1 5 3	5.00 0.00 0.00	0.00	3	1.50 0.83 0.00	1.50 0.83 0.00	-	+ - 0	0.423	1 5 3	0.00 0.00 0.00	0.00	3	0.00	0.00 0.00 0.00	-		1.000	1 5 3	0.00 7.00 33.33	5.78 30.87	3	3.50 0.83 4.37	2.18 0.83 2.77	3		0.422 0.369
Habitat Mea			1.67	0.00		0.77	0.77		-			0.00	0.00		0.00	0.00		0			13.43	18.35		2.90	1.93	3	1	
Fisher's Stouffer'		Power Power				c-50%				0.343 y 0.345	Power Power				r-50% r-50%				0.597 0.500	Power Power	0.17 0.25			r-50% r-50%				0.165 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. pnly one site pair.

Table C-5.364. Page 3. December 15, 1994

				Crypt	osipho	nia wood	ii (A)						Endo	cladi	a muricat	a (P)						G1oi	opelt	is furce	ta (A)			
Site Pair	Mvd	N	c	SE	N	0	SE	cv	D	P	N	C	SE	N	0	SE	ĊΛ	D	P	N	С	SE	Ŋ	0	SE	c	V D	P
19C/19 1642C/833 4537C/979		5 5 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00	-	0	1.000 1.000 1.000	5 5 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	5 5 6	0.00 0.00 0.00	0.00	4	0.00 0.00 0.63	0.00 0.00 0.63		- 0	1.000 1.000 0.391
Habitat Mea	r.s		0.00	0.00		0.00	0.00	•	0			0.00	0.00		0.00	0.00		O			0.00	0.00		0.20	0.20		-	
Fisher's Stouffer'	s	Power Power			Power Power					0.655 0.500	Power Power			Power Power					0.655 0.500	Power Power				r-50% r-50%				0.419 0.236
19C/19 1642C/833 4537C/979	2	3 6 3	0.00	0.00	4	0.00	0.00 0.00 0.00	- 1	0	1.000 1.000 1.000	3 6 3	1.67 0.00 0.00	1.67 0.00 0.00		0.00 3.75 0.00	0.00 2.39 0.00	-	-	0.423 0.191 1.000	3 6 3	1.67 5.42 0.00	1.67 5.42 0.00	4	0.83 3.75 0.00	0.83 2.17 0.00		- + - o	0.821 0.797 1.000
Habitat Mea	ເກຣ		0.00	0.00		0.00	0.00	1	0			0.57	0.57		1.27	0.80		-			2.37	2.37		1.53	1.00	l	+	
Fisher's Stouffer'		Power Power			Power Power					0.655 0.500	Power Power	0.023		Power			P-val P-val		0.364	Power Power	0.005			r-50% r-50%				0.543 0.428
19C/19 1642C/833 4537C/979	3	5	0.00 0.00 1.67	0.00 1.67	3	0.50 0.00 0.63	0.50 0.00 0.63	-	0	1.000	1 5 3	0.00 0.00 0.00	0.00	3	0.00 0.83 0.00	0.00 0.83 0.00	-	-	0.423 1.000	1 5 3	0.00 1.00 2.50	0.61 2.50		0.00 0.00 0.63	0.00 0.00 0.63	ı	- o - +	0.178 0.585
Habitat Mea	ns		0.57	0.85		0.37	0.37	,	+			0.00	0.00		0.27	0.27		-			1,17	1.55		0.20	0.20	ı	1	
Fisher's Stouffer'		Power Power			Power Power					0.467 0.356	Power Power			Power	r-50% r-50%				0.343 0.345	Power Power	0.300			r-50% r-50%			alue /alue	0.121

x At least one site pair p-va)us < 0.100 in opposite direction of 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. Algal Percent Cover. Rhodophyta, Prince William Sound, Exposed Rocky. June 1991. Overstory removed June 1990. (Continued.)

			N	orbod	omela/	Rhodomela	(P) (i	a)					Odon	thal	ia flocco	8a (P)						Ptilo	ta/Nec	ptilota	(P) (b)			
Site Pair	Mvd		С	SE	И	0	SE	CV	D	P	N	С	SE	N	0	SE	CA	D	P	Ŋ	С	SE	N	0	SE	C	V D	P
19C/19 1642C/833 4537C/979	1 1 1	5 5 6	0.00 0.00 2.92	0.00 0.00 2.92	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 0.363	5 5 6	0.00 0.00 1.67	0.00 0.00 1.67		0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 0.363	5 5 6	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00)	- 0	1.000 1.000 1.000
Habitat Mea	ns		0.97	0.97		0.00	0.00					0.57	0.57		0.00	0.00		-			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer'	S	Power			Power					0.403	Power Power				er-50% er-50%		P-val P-val		0.403	Power Power			Power	-50% -50%				0.655
19C/19 1642C/833 4537C/979	2	3 6 3	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	o	1.000 1.000 1.000	3 6 3	0.00 0.42 14.17			0.00 0.00 1.88	0.00 0.00 1.88	-	+	1.000 0.363 0.470	3 6 3	0.00 0.00 0.00	0.00	4	0.00	0.00 0.00 0.00)	- 0	1.000 1.000 1.000
Habitat Mea	ıns		0.00	0.00		0.00	0.00		0			4.87	4.87		0.63	0.63		+			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer'	8	Power Power			Power	-50% -50%				0.655 0.500	Power Power				er-50% er-50%		P-val P-val		0.261 0.149	Power Power				-50% -50%				0.655 0.500
19C/19 1642C/833 4537C/979	3	1 5 3	0.00 6.00 0.00	6.00	3	2.00 0.00 0.00	2.00 0.00 0.00	-		0.374	1 5 3	0.00 0.00 29.17	0.00 29.17	3	1.00 0.00 3.13	1.00 0.00 3.13	-		1.000 0.417	1 5 3	0.00 0.00 0.00	0.00	3	0.00 0.00 0.00	0.00 0.00 0.00		- 0 - 0	1.000
Habitat Mea	ıns		2.00	3.00		0.67	0.67		-			9.73	14.60		1.37	1.37		-			0.00	0.00)	0.00	0.00)	0	
Fisher's Stouffer'		Power Power				-50% -50%				0.315 0.329	Power Power				er-50% er-50%		P-val P-val		0.340 0.241	Power Power				c-50% c-50%				0.597

(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-5.364. Page 5. December 15, 1994

Only one site																											
			Morp	holog	ical G	roup: S	accate F	Reds				Halosa	ccio	n glandife	orme (A)				Mort	holo	gical	Group:	Fine	Filament	ous Re	đs	_
lite Pair	Mvč	N	С	SE	N	0	SE	cv	D P	N	С	SE	N	0	SE	CV D	P	N	С		SE	N	0	SE	CV 1	P	
.9C/19 .642C/833 .537C/979		5 5 6	0.00	0.00	4	0.00	0.00 0.00 0.00	-	0 1.000 0 1.000 0 1.000	5 5 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- o - o	1.0	00 5	0.0 0.0 0.0	0	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	1.0	00
abitat Mea	_	•	0.00	0.00		0.00	0.00		0		0.00	0.00		0.00	0.00	0			0.0	0	0.00		0.00	0.00		>	
Fisher's Stouffer'		Power Power			Power Power				e 0.655 e 0.500	Power Power				er-50% er-50%		P-value P-value						Power		1	P-valu P-valu		
9C/19 642C/833 537C/979	2	3 6 3	0.00	0.00	4	0.00	0.00 0.00 0.00	-	o 1.000 o 1.000 o 1.000	3 6 3	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00	0,00 0.00 0.00	- 0 - 0	1.0	00 6	0.0 0.0	0	0.00 0.00 0.00	4	0.00	0.00 0.00 0.00	-	1.0	00
abitat Mea	_		0.00	0.00		0.00	0.00		0		0.00	0.00		0.00	0.00	0			0.0	0	0.00		0.00	0.00		>	
Fisher's Stouffer'		Power Power			Power Power				e 0.655 e 0.500	Power Power				er-50% er-50%		P-value P-value						Power Power			P-valu P-valu		
9C/19 642C/833 537C/979	3	1 5 3	0.00 0.00 0.00	0.00	3	0.00 2.50 0.63	0.00 2.50 0.63	-	o - 0.423 - 0.391	1 5 3	0.00 0.00 0.00	0.00		0.00 2.50 0.63	0.00 2.50 0.63		0.4		0.0 0.0 0.0	0	0.00	3	0.00	0.00 0.00 0.00	-	1.0	
labitat Mea	ns		0.00	0.00		1.03	1,03		-		0.00	0.00		1.03	1.03	-			0.0	0	0.00		0.00	0.00)	
Fisher's Stouffer'		Power Power			Power Power				e 0.173 e 0.127	Power Power				er-50%		P-value P-value						Power			P-valu P-valu		

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

Table C-5.364. Algal Percent Cover. Rhodophyta. Prince William Sound. Exposed Rocky. June 1991. Overstory removed June 1990. (Continued.)

			Poly	siphor	nia/Pte	rosipho	ia (A)	(a)				Morpi	nologi	cal (Group: Ci	tustose	Reds					Crusto	se Co	alline A	lgae (P)		
Site Pair	Mvd	N	С	SE	N	0	SE	cv	Ď	P	N	С	SE	N	0	SE	CV I	D	P	N	С	SE	N	0	SE	CA	D	P
19C/19 1642C/833 4537C/979	1 1 1	5 5 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-		1.000 1.000 1.000	5 5 6	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- (0	1.000 1.000 1.000	5 5 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00		0.00	0.00		O			0.00	0.00		0.00	0.00	0	0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	s	Power			Power-					0.655	Power Power				r-50% r-50%		-value		0.655	Power Power				c-50% c-50%		P-va P-va		0.655 0.500
19C/19 1642C/833 4537C/979	2	3 6 3	0.00 0.00 0.00	0.00	4	0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	3 6 3	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- (0	1.000 1.000 1.000	3 6 3	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	(0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'		Power Power			Power					0.655 0.500	Power Power				±-50% r-50%		-value -value		0.655 0.500	Power Power				r-50% r-50%				0.655 0.500
19C/19 1642C/833 4537C/979	3	1 5 3	0.00	0.00	3	0.00	0.00 0.00 0.00	-		1.000	1 5 3	0.00 0.00 0.00	0.00	3	0.00 0.00 1.25	0.00 0.00 1.25	- 6		1.000 0.391	1 5 3	0.00 0.00 0.00	0.00	3	0.00	0.00	-	0	1.000
Habitat Mea	ır.s		0.00	0.00		0.00	0.00		0			0.00	0.00		0.43	0.43		-			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'		Power Power			Power Power					0.597 0.500	Power Power				er-50% er-50%		P-value P-value		0.325 0.228	Power Power				r-50% r-50%				0.597 0.500

(a) Senera not sepatatod.

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

Taulo C-5.364. Page 7, December 15, 1994

				Hil	denbra	andia sp.	(P)						Petr	ocelis (P)											
Site Pair	Mvd	ı n	С	SE	N	0	38	CV	D P	N	c	SE	N	0	SE	CV D	P	N	c	SE	N	0	SE	cv	D	P
19C/19 1642C/833 4537C/979	1	5 5 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	o 1.0 o 1.0 o 1.0	0 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- 0	1.00 1.00 1.00	0								
Habitat Mea	ns		0.00	0.00		0.00	0.00		0		0.00	0.00		0.00	0.00	0										
Fisher's Stouffer'		Power Power			Power Power				ie 0.6 ie 0.5					r-50% r-50%		P-value P-value					Power Power			P-val: P-val:		
19C/19 1642C/833 4537C/979	2	3 6 3	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00	-	o 1.0 o 1.0 o 1.0	00 6	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- 0	1.00 1.00 1.00	0								
Habitat Mea	ns		0.00	0.00		0.00	0.00		0		0.00	0.00		0.00	0.00	0										
Fisher's Stouffer'		Power Power			Power Power				ie 0.6 ie 0.5					r-50% r-50%		P-value P-value					Power Power			P-val: P-val:		
19C/19 1642C/833 4537C/979	3	1 5 3	0.00 0.00 0.00	0.00		0.00	0.00 0.00 0.00	-	o 1.0 o 1.0		0.00 0.00 0.00	0.00	3	0.00 0.00 1.25	0.00 0.00 1.25	- 0	1.00	0								
Habitat Mea	ıns		0.00	0.00		0.00	0.00		0		0,00	0.00		0.43	0.43	-										
Fisher's Stouffer'	s	Power Power			Power Power				ue 0.5 ue 0.5					r-50% r-50%		P-value P-value					Power			P-valu P-valu		

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

Results of statistical differences between means of control and oiled site pairs. MVD - meter vertical drop; N - sample size; C = control mean; 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
1	رم د			N C SE N O SE CV D P
19C/19 1 5 1642C/833 1 5 4537C/979 1 6	0.00 0.00 0.00 0.00 0.00 0.00	4 0.00 0.00 - 0 1.000	5 0.00 0.00 4 26.25 15.70 0.1	326 5 0.00 0.00 5 0.00 0.00 - 0 1.000 187 5 0.00 0.00 4 0.00 0.00 - 0 1.000 779 6 0.00 0.00 4 0.00 0.00 - 0 1.000
Habitat Means	0.00 0.00	0.00 0.00 0	1,77 0.93 9.70 6.00 -	0.00 0.00 0.00 0
Fisher's Power Stouffer's Power		Power-50% P-value 0.655 Power-50% P-value 0.500	Power 0.057 Power-50% 0.178 P-value 0. Power 0.030 Power-50% 0.191 P-value 0.	322 Power Power-50% P-value 0.655 270 Power Power-50% P-value 0.500
19C/19 2 3 1642C/833 2 6 4537C/979 2 3	0.00 0.00 0.00 0.00 0.00 0.00	4 0.00 0.00 - 0 1.000	6 6.25 3.91 4 39.38 17.63 0.	782 3 0.00 0.00 3 0.00 0.00 - 0 1.000 0.04 6 0.00 0.00 4 0.00 0.00 - 0 1.000 0.00 204 3 0.00 0.00 4 0.00 0.00 - 0 1.000
Habitat Means	0.00 0.00	0.00 0.00 0	6.83 3.57 23.13 13.30 -	0.00 0.00 0.00 0
Fisher's Powerstouffer's Power		Power-50% P-value 0.655 Power-50% P-value 0.500	Power Power-50% P-value 0. Power Power-50% P-value 0.	
19C/19 3 1 1642C/833 3 5 4537C/979 3 3	0.00 0.00 0.00 0.00 0.00	3 0.00 0.00 - 0 1.000	5 7.50 5.81 3 60.00 30.31 0.	1 0.00 5 1.00 1.00
Habitat Means	0.00 0.00	0.00 0.00 0	22.50 2.90 28.30 15.90 -	0.00 0.00 0.90 0.90 -
Fisher's Pow Stouffer's Pow	ver	Power-50% P-value 0.597 Power-50% P-value 0.500	Power Power-50% P-value 0. Power Power-50% P-value 0.	056 Power Power-50% P-value 0.343 060 Power Power-50% P-value 0.345

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

					My	tilus							29	acell	a lamello	asa								, <u></u> 4e	-			
Site Pair	Mvd	ı n	C	ge	N	0	SE	cv	D	P	N	С	SE	N	٥	SE	CV	D	P	N	С	SE	N	0	SE	GA	ם	P
19C/19 1642C/833 1537C/979		5 5 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- - -	0	1.000 1.000 1.000	5 5 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	5 5 6	2.00 0.00 0.83	1.46 0.00 0.83	4	0.00 0.00 1.25	0.00 0.00 1.25	-	0	0.198 1.000 0.779
Mabitat Mea	១ន		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.93	0.77		0.43	0.43		+	
Fisher's Stouffer'	s	Power			Power					0.655	Power Power				r-50% r-50%		P-valu P-valu		0.655 0.500	Power Power	0.014			c-50% c-50%	0.035 0.056			0.321
9C/19 642C/833 537C/979	2	3 6 3	5.00 0.42 0.00	5.00 0.42 0.00	4	0.00 3.13 0.00	0.00 3.13 0.00	-	-	0.423 0.440 1.000	3 6 3	0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	3 6 3	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.63	0.00 0.00 0.63	-	0	1.000 1.000 0.391
abitat Mea			1.80	1,80		1.03	1.03		,			0.00	0.00		0.00	0.00		0			0.00	0.00		0.20	0.20		-	
Fisher's Stouffer'		Power			Power					0.545 0.564	Power Power				r-50% r-50%		P-valu P-valu		0.655 0.500	Power Power				r-50% r-50%				0.419 0.236
9C/19 642C/833 537C/979	3	1 5 3	0.00 1.00 0.83	1.00	3	0.00 0.00 0.00	0.00	-		0.374 0.423	1 5 3	0.00 0.00 0.00	0.00	3	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000	5 3	0.00 0.00 0.00	0.00		1.00 0.00 0.00	1.00 0.00 0.00	-	0	1.000
Habitat Mea	ns		0.60	0.90		0.00	0.00		+			0.00	0.00		0.00	0.00		0			0.00	0.00		0.33	0.33		0	
Fisher's Stouffer'		Power Power			Power Power					0.167 0.128	Power Power				r-50% r-50%				0.597 0.500	Power Power				r-50% r-50%				0.597 0.500

x. At least one site pair p value < 0.100 in apposite direction of overall tests. y. Direction of difference between habital means is different than direction of overall tests. τ 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									_																
dire prin	Word	N NT	C	G#	N	ń	SE	רע	ח	Р	N	C	SE	N	0	SE	CV	D	P	Ŋ	¢	SE	N	0	9e	CV	Ď	P
1642C/833 4537C/979		5 6	0.00	0.00		0.00	0.00			1.000																		
Habitat Mea	ins		0.00	0.00		0.00	0.00		0																			
Fisher's Stouffer'		Power Power			Power Power			P-val F-val	ue ue	0.655 0.500	Power Power			Power- Power-			P-va P-va			Power Power			Bower			P-val		
19C/19 1642C/833 4537C/979	2	3 6 3	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000																		
Habitat Mea	ms		0.00	0.00		0.00	0.00		0																			
Fisher's Stouffer'		Power Power			Power Power					0.655 0.500	Power			Power- Power-			P-va P-va			Power Power			Power Power			P-val		
19C/19 1642C/833 4537C/979	3	1 5 3	0.00 0.00 0.00	0.00	3	0.00	0.00 0.00 0.00	-		1.000																		

Power-50%

Power-50%

Power

Power

--- P-value

--- P~value

Power

Power

0.00

0.00

0.00

Power-50%

Power-50%

0.00

0

--- P-value 0.597 --- P-value 0.500

Fisher's Power ---

Habitat Means

Table C-5.365, Fage 3. December 15, 1994

--- P-value

--- P-value

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 habital means is different than direction of overall tests. z Only one site pair.

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 ciled site pairs. MVD = meter vertical drop; 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.

						Rock								Mud							s	and			
Site Pair	Mvd	N	С	SE	N	0	SE	CA D	P	N	С	ge	N	0	SE	CA D	P	N	c	SE	N	0	SE	CV I	P
19C/19 1642C/833 4537C/979	1	5 5 6	91.50 99.50 53.33	2.45 0.50 11,79	4	85.00 73.75 96.88	8.37 15.70 1.87	- +	0.835 0.214 0.009	5 5 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- 0	1.000 1.000 1.000	5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- 0	1.000 1.000 1.000
Habitat Mear	n.s		81.43	4.93		85,23	8.67				0.00	0.00		0.00	0.00	0			0.00	0.00		0.00	0.00	C	
Fisher's Stouffer's	ŝ	Power Power	0.071		Power Power			P-value P-value	0.398xy 0.940	Power Power				-50% -50%		-value					Power-				0.655 0.500
19C/19 1642C/833 4537C/979	2	3 6 3	47.50 71.67 2.50	20.05 11.65 2.50	4	70.83 36.25 95.00	21.03 16.47 1.77	 - + 	0.094	3 6 3	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00	0.00 0.00 0.00	- 0 - 0 - 0	1.000	6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00	0.00 0.00 0.00	- 0	1,000 1.000 1.000
Habitat Mear	ns		40.57	11.43		67.37	13.10	-			0.00	0.00		0.00	0,00	0			0.00	0.00	1	0.00	0.00	(
Fisher's Stouffer's	s	Power			Power Power			P-value P-value	0.001× 0.004	Power Power				c-50% c-50%		-value -value					Power-				0.655 0.500
19C/19 1642C/833 4537C/979	3	1 5 3	32.50 70.50 43.33	15.56 21.03	3	38.00 25.83 63.75	18.56 25.83 12.27		0.100	1 5 3	0.00 0.00 0.00	0.00	3	0.00 0.00 0.00	0.00 0.00 0.00	- o - o	1.000	5	0.00 0.00 0.00	0.00	3	0.00	0.00 0.00 0.00	- c	
Habitat Mear	ກຮ		48.77	18.30		42.53	18,90	+			0.00	0.00		0.00	0.00	0			0.00	0.00)	0.00	0.00	0	
Fisher's Stouffer's		Power Power	0.070		Power Power			P-value P-value		Power Power				r-50% r-50%		~value -value					Power-				0.597 0.500

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

Table C 5.366. Fage 1. December 15, 1

		Shell Fragments												Water							20	stera/	Phyllosp	adix				
Site Pair	Mvd	ı n	c	SE	N	0	SE	cv	D	P	N	Ç	SE	Ŋ	o,	SE	CV I	•	P	N	С	SE	Ŋ	0	SE	ÇV	D	P
19C/19 1642C/833 4537C/979	1 1 1	5 5 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	5 6	0.00	0.00	4	0.00	0.00		Ċ	1.000	5	0.00	0.00	4	0.00	0.00	-	O	1.000
Habitat Mea	ans		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	0	Þ			0.00	0.00	1	0.00	0.00		0	
Fisher's Stouffer'	s	Power Power			Power			P-valu P-valu		0.655 0.500	OW				er-50% er-50%		-value		0.655 0.500	OW DW			Power Power					0.655 0.500
19C/19 1642C/833 4537C/979	2	3 6 3	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00	0.00 0.00 0.00	-	0	1.000	3 6 3	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00	0.00 0.00 0.00	- (Þ	1.000 1.000 1.000	3 6 3	0.00 0.00 0.00	0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00		0.00	0.00		Φ			0.00	0.00		0.00	0.00	(٥			0.00	0.00	1	0.00	0.00		0	
Fisher's Stouffer'	' s	Power Power			Power Power			P-valu P-valu		0.655 0.500	OW OW				er-50% er-50%				0.655 0.500	OW			Power Power					0.655
19C/19 1642C/833 4537C/979	3 3 3	1 5 3	0.00 0.00 0.00	0.00	3	0.00	0.00 0.00	-		1.000	.5 .3	0.00 2.50 0.00	2.50 0.00	3	0.00	0.00 0.00 0.00			0.374	1 5 3	0.00	0.00	3	0.00	0.00 0.00 0.00	-		1.000
Habitat Mea	ans		0.00	0.00		0.00	0.00		0			0.83	1.25		0.00	0.00		+			0.00	0.00)	0.00	0.00		0	
Fisher's Stouffer'	's	Power Power			Power Power			P-valu P-valu		0.597 0.500	OW OW				er-50% er-50%		-value -value		0.315	OW OW			Power Power					0.597 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 chan direction of overall tests.
2 Only one site pair.

Table C-5.366. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Exposed Rocky. June 1991. Overstory removed June 1998. (Continued.)

					Sand	and Mud								Tota!	L Substra	ate										
Site Pair	Myd	N	c	SE	N	0	SE	CY	D	P	н	¢	ŞE	Ŋ	0	SE	CV D	P	N	С	SE	N	0	SE	CA D	P
1642C/833 4537C/979	1	5 6	0.00	0.00	4	0.00	0.00		o 1.	.000	5 6	99.50 53.33	0.50 11.79		73.75 96.88	15.70 1.87		0.214								
Habitat Mea	ns		0.00	0.00		0.00	0.00		0			81.43	4.93		85.23	8.67	+									
Fisher's Stouffer'	ŝ	Power Power			Power Power		I				Power Power				r-50% r-50%		P-value P-value					Power Power			P-value P-value	
19C/19 1642C/833 4537C/979	2	3 6 3	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00	-	o 1 o 1 o 1	.000	3 6 3	47.50 71.67 2.50	20.05 11.65 2.50	4	70.83 36.25 95.00	21.03 16.47 1.77	- +	0.381 0.094 0.000								
Habitat Mea	ns		0.00	0.00		0.00	0.00		0			40.57	11.43		67.37	13,10	-									
Fisher's Stouffer'	s	Power Power			Power Power		7				Power Power				±-50% r-50%		P-value P- v alue		Power			Power Power			P-value P-value	
19C/19 1642C/833 4537C/979	3	1 5 3	0.00 2.50 0.00	2.50 0.00	3	0.00 0.00 0.00	0.00 0.00 0.00	-	o + 0 o 1		1 5 3	32.50 73.00 43.33	14.28 21.03		38.00 25.83 63.75	18.56 25.83 12.27	- 1	0.082 0.373								
Habitat Mea	ns		0.83	1.25		0.00	0.00		+			49.60	17.65		42.53	18.90) +									
Fisher's Stouffer'	s	Power Power			Power			P-val: P-val:			Power Power				r-50% r-50%		P-value P-value		Power Power			Power Power			P-value P-value	

Table C 5.366, Fage 3, December 15, 1994

x At least one site pair p-value < 0.100 in opposite direction of overall tests, y Direction of difference between habitat means is different than direction of overall tests. 2 Only one site pair.

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 of control and oiled site pairs. MVD = meter vertical drop; N - sample size; C = control mean; C = control

				Algal	Diver	sity In	1463 (a	.)					Alga	1 таж	a Richne	ess (b)							Tota	l Alga	•			
Site Pair	Mvd	N		ge	N	0	32		CV D	P	N	С	SE	N	٥	SE	CA I)	P	N	С	SE	N	0	SE	CV	D	P
19C/19 1642C/833 4537C/979	1 1 1	б	0.04 0.00 0.05	0.04 0.00 0.05	4	0.00 0.13 0.00	0. 0.	07	- + - +	0.185	4 6 5	0.50 0.17 0.80	0.50 0.17 0.37	4	0.20 1.25 0.00	0.20 0.48 0.00		0.	563 037 099	4 6 5	5.62 16.67 22.50	5.63 16.67 16.51	4 5	12.00 40.00 0.00	12.00 22.08 0.00	-	-	0.821 0.354 0.156
Habitat Mean Fisher's Stouffer's		Power Power	0.03 0.012 0.003	0.03	Power Power		0.	P-		0.339 y 0.370	Power Power	0.49 0.129 0.021	0.35		0.48 r-50% r-50%		P-value P-value	. 0.	199x 298	Power Power	0.02 0.00		Power Power	-50%	0.119	P-valu P-valu	ie	
19C/19 1642C/833 4537C/979	2	2 2 6	0.00 0.00 0.20	0.00 0.00 0.07	2	0.12 0.00 0.00	0. 0. 0.	00	 	1.000	2 2 6	0.50 1.00 1.83	0.50 0.00 0.48	2	1.80 0.50 0.20	0.37 0.50 0.20		- 0.	114 500 017	2 2 6	45.00 61.25 58.75	45.00 18.75 15.58	2 5	36.50 2.50 1.50	19.25 2.50 1.50	-	÷	0.968 0.073 0.010
Habitat Mea	ns		0.07	0.02		0.04	0.		+	0.133×	Power	1.11	0.33	Dowo	0.83 r-50%	0.36	P-value		.053	Power	55.03	26.47	Power	13.50	7.77	P-valı	+ ie	0.005
Fisher's Stouffer'		Power Power	0.218		Power Power		0.146		value value		Power				r-50%		P-value			Power			Power			P-valı	1e	0.001
19C/19 1642C/833 4537C/979		0 4 3	0.40 0.23	0.15 0.16	2	0.21 0.31 0.26	0.	31			0 4 3	3.50 2.33	1.04	2	2.25 4.00 2.60	1.65 3.00 1.03			.846 .866	0 4 3	70.63 42.50	16.72 20.05	5	46.88 58.75 56.50	27.18 41.25 19.71	-		0.893 0.697
Habitat Mea	ns		0.31	0.15		0.26	0.	19				2.92	0.96		2.95	1.89		-			56.55	18.40		51.07	29.40		-	
Fisher's Stouffer'	9	Power Power	0.066 0.059		Power Power		0.090		-value -value	0.555	Power Power	0.040			r-50% r-50%		P-value P-value		.494 .404	Power Power	0.03		Power		0.137			

(a) Modified Shannor 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.</p>
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. Denombor 15, 1994

2 0,113 0110 1110				To	tal I	nverteb	rates								Rock								Pere	nnials (P)			
Site Pair	Mvd		С	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	cv	D	P	N	C	SE	N	0	SE	¢ı	D	P
19C/19 1642C/833 4537C/979	1 1 1	4 6 5	8.75 0.00 1.50	6.50 0.00 1.50	4	0.00 4.37 0.00	0.00 2.95 0.00	-	-	0.215 0.198 0.374	4 6 5	85.63 83.33 76.00	8.32 16.67 17.99	4	88.00 55.63 100.00	12.00 21.17 0.00	_		0.682 0.296 0.170	4 6 5	5.62 16.67 18.50	5.63 16.67 12.59	4 5	12.00 28.75 0.00	12.00 14.05 0.00	j -		0.821 0.543 0.129
Habitat Mea	ns		3.43	2.67		1.47	1.00)	F			81.63	14.33		81.20	11.07		-			13.60	11.63		13.60	8.70]	-	
Fisher's Stouffer'		Power	0.018		Power					0.236	Power Power				er-50% er-50%	0.581 0.628			0.285 y 0.225	Power Power	0.025			r-50% r-50%				0.607 y 0.821
19C/19 1642C/833 4537C/979	2	2 2 6	0.00 10.00 9.58	0.00 10.00 4.49	2	4.00 28.75 0.00	2.92 21.25 0.00	5 -		0.199 0.476 0.079	2 2 6	55.00 28.75 31.67	45.00 28.75 12.28	2	59.50 68.75 98.50	17.70 18.75 1.50	-	_	0.862 0.359 0.001	2 2 6	45.00 61.25 57.92	45.00 18.75 15.64	2	31.00 2.50 0.00	19.33 2.50 0.00) -	- ,	0.842 0.073 0.012
Habitat Mea	_	-	6.53	4.83		10.93	8.0	7	-			38.50	28.70		75.60	12.67		-			54.73	26.47		11.17	7.27	7	-	
Fisher's Stouffer'		Power Power	0.046		Power					0.271x 0.788	Power Power				er-50% er-50%		P-val P-val		0.001	Power Power				r-50% r-50%				0.005
19C/19 1642C/833 4537C/979	3	0 4 3	11.25 3.33	11.25 3.33	2	33.75 0.00 9.00	23.5 0.00 9.00	0 -	+	0.391	0 4 3	18.12 54.17	6.72 18.84	2	19.37 41.25 34.50	15.49 41.25 14.67	-	-	0.667	0 4 3	40.63 29.17	8.25 7.95	2	38.13 28.75 42.00	22.06 28.75 19.00	5 .	- +	0.431 0.736
Habitat Mea	_	-	7.30	7.30		14.27	10.8	7	+			36.15	12.75		31.73	23.83		4			34.90	8.15		36.30	23.30)	1	
Fisher's		Power	0.011 0.026			c-50% c-50%				0.357 y 0.394	Power Power				er-50% er-50%	0.193 0.034	P-val P-val		0.398	Power Power	0.17 0.12			er-50%				0.408 y 0.461

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

Table C-5.367. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Exposed Rocky. July 1991. Overstory removed August 1990. (Continued.)

					Ann	1als (A)								Ephem	erals (A	E)													
Site Pair	Mvd	N	c	SE	N	0	SE	CV	D	P	Ħ	С	SE	N	0	SE	ÇV	D	P	N	С	SB	N		D	SE	CV I)	P
19C/19 1642C/833 4537C/979	1	4 6 5	0.00 0.00 4.00	0.00 0.00 4.00	4	0.00 11.25 0.00	0.00 8.26 0.00	-	-	1.000 0.214 0.374	4 6 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00	-	0	1.000 1.000 1.000										
Habitat Mea	ns		1.33	1.33		3.77	2.77		-			0.00	0.00		0.00	0.00	ı	0											
Fisher's Stouffer'	s	Power Power	0.006		Power Power					0.393 0.559	Power Power				r-50% r-50%				0.655 0.500	Power Power				ver-9			value value		
19C/19 1642C/833 4537C/979	2	2 2 6	0.00 0.00 0.83	0.00 0.00 0.53	2	5.50 0.00 1.50	2.00 0.00 1.50	-	0	0.027 1.000 0.968	2 2 6	0.00 0.00 0.42	0.00 0.00 0.42	2	0.50 0.00 0.00	0.50 0.00 0.00	- (0	0.374 1.000 0.363										
Habitat Mea	ns		0.27	0.17		2.33	1.17		-			0.13	0.13		0.17	0.17	'	+											
Fisher's Stouffer'	9	Power Power	0.333		Power Power		0.020			0.075 0.270	Power Power				r-50% r-50%				0.517 y 0.298	Power Power				wer-			value		
19C/19 1642C/833 4537C/979	3	0 4 3	30.00 13.33	10.46 12.10		8.75 30.00 14.50	5.15 12.50 9.57		Q	0.843 0.954	0 4 3	27.50 0.00	9.30		1.25 8.75 4.00	1.25 8.75 4.00) -		0.384 0.374										
Habitat Mea	ins		21.65	11.30		17.77	9.10)	-			13.75	4.65		4.70	4.70)	-											
Fisher's Stouffer'		Power	0.046 0.057		Power					0.631 y 0.519	Power Power	0.007 0.001			r-50% r-50%				0.437 v 0.367	Power Power				wer-			valu valu		

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

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							Morp	hologi	cal	Group: B	laded Gr	еепв				B1a	ded Gr	eens (AE	(a)					
Site Pair	Mv	ā N	с	SE	N	0	SE	CV I) P	N	С	SE	N		SE	CV I	0	P	-			-		2	
1642C/833 4537C/979	-	6 5	0.00	0.00	4	0.00	0.00	- 0	1.000	6 5	0.00	0.00	4	0.00	0.00 0.00 0.00	- 6	5	1.000	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00	- 0	1.000 1.000 1.000
Habitat Mea	ırs		0.00	0.00		0.00	0.00	c	•		0.00	0.00		0.00	0.00		0		0.00	0.00		0.00	0.00		
Fisher's Stouffer	s	Power Power				r-50% r-50%			0.655	Power Power				r-50% r-50%		-value			*		Power				0.655 0.500
19C/19 1642C/833 4537C/979	2	2 2 6	0.00 0.00 0.42	0.00 0.00 0.42	2	0.50 0.00 0.00	0.50 0.00 0.00		1.000	2 2 6	0.00 0.00 0.00	0.00 0.00 0.00	2	0.50 0.00 0.00	0.50 0.00 0.00	- c	0	0.374 1.000 1.000	0.00 0.00 0.00	0.00	2	0.50	0.50		0.374 1.000 1.000
Habitat Mea	ins		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 Stouffer'	5	Power Power			Power Power				0.517 v 0.298	Power Power				r-50% r-50%		-value		0.409 0.408			Power-				0.409
19C/19 1642C/833 4537C/979	3	0 4 3	20.00	7.84 0.00	2	1.25 0.00 9.00	1.25 0.00 5.57	- :		0 4 3	0.00	0.00		1.25 0.00 4.00	1.25 0.00 4.00	- - 0		1.000 0.374	0.00	0.00	2	1.25 0.00 4.00	1.25 0.00 4.00	- 0	1.000 0.374
Habitat Mean	ns		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 Stouffer's	s	Power Power	0.289 0.048		Power Power		0.000 F		0.135 0.600	Power Power				r-50% r-50%		-value -value		0,315 0.220			Power-				0.315 0.220

(a) Mornmannia, Monostroma, viva and Sivaria. x At least one site pair p value < 0.103 in opposite direction of 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, 1394

			Morpholog				Pilament						_														Dece:	me: 15, 1994
			жотрдотор	ICAL	Group:	L THE	riidment	OUB G	ree				λcı	rosı,	honia sp.	(A)					Ср	aetomo	rpha/R	hizoclon	ium (A)	(a)		
Site Pair	Mv	1 N	C	Se	N	0	SE	CV	D	P	N	c	SE	N	٥	SE	CV	D	P	N	c	SE	N	0	SE	СЛ	D	P
19C/19 1642C/833 4537C/979	1	4 6 5	0.00	0.00	4	0.00 0.00 0.00	0.0	0 -		1.000 1.000 1.000	4 6 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	O	1.000 1.000 1.000	4 6 5	0.00 0.00 0.00	0.00	4	0.00	0.00	-	0	1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00	•	0.00	0.0	0	О			0.00	0.00		0.00	0.00		0			0.00	0.00)	0.00	0.00		0	
Fisher's Stouffer's	s	Power Power			Power Power			P-val P-val		0.655 0.500	Power Power				22-50% 25-50%		P-valu P-valu		0.655 0.500	Power Power	~			-50% -50%				0.655 0.500
19C/19 1642C/833 4537C/979	2	2 2 6	0.00 0.00 0.42	0.00 0.00 0.42	2	0.00 0.00 0.00	0.0	0 –	0	1.000 1.000 0.363	2 2 6	0.00 0.00 0.00	0.00 0.00 0.00	2	0.00 0.00 0.00	0.00	-	Φ	1.000 1.000 1.000	2 2 6	0.00	0.00	2	0.00	0.00	-	0	1.000 1.000 1.000
Habitat Meas	ns		0.13	0.13		0.00	0.0	0	+			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	2.000
Fisher's Stouffer's	s	Power Power			Power Power					0.403 0.223	Power Power				r-50% r-50%				0.655 0.500	Power Power	~			-50% -50%			ue	0.655 0.500
19C/19 1642C/833 4537C/979	3 3 3	0 4 3	20.00	7.84 0.00	2	0.00 0.00 5.00	0.00 0.00 5.00) –	+	0.066 0.374	0 4 3	0.00 0.00	0.00		0.00 0.00 5.00	0.00 0.00 5.00	-		1.000	0 4 3	0.00	0.00	2	0.00	0.00	-		1.000
Habitat Meas	ກຮ		10.00	3.90		1.67	1.6	7	+			0.00	0.00		1.67	1.67		-			0.00	0.00		0.00	0.00		D	1.000
Fisher's Stouffer's	s	Power Power	0.254 0.095		Power Power					0.124	Power Power				r-50% r-50%		P-valu P-valu			Power Power	~		Power Power	-50%		P-val	ue.	0.597 0.500

[a] Conera not separated, x At least one site pair p-value < 0.100 in opposite direction of 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. Algal Percent Cover. Chlorophyta. Prince William Sound. Exposed Rocky. July 1991. Overstory removed August 1990. (Continued.)

				c	!lac	dophora sp.	(AE	5)						σ	lothr	ix sp. (A	E)						τ	rospor	а вр. (AB)			
Site Pair	Mvd	i N	c	SE		N O		SE	cv	D	P	N	С	SE	N	0	SE	cv	D	P	N	c	SE	N	0	SE	ď	CA D	P
19C/19 1642C/833 4537C/979	1	4 6 5	0.00 0.00 0.00	0.00	0	5 0.00 4 0.00 5 0.00		0.00 0.00 0.00	-	O	1.000 1.000 1.000	4 б 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	Q	1.000 1.000 1.000	4 6 5	0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00)	- 0	1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00	0	0.00		0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00)	٥	
Fisher's Stouffer'	s	Power Power				Power-50% Power-50%					0.655 0.500	Power Power				r-50% r-50%		-valu		0.655 0.500	Power Power			Power Power					0.655 0.500
19C/19 1642C/833 4537C/979	2	2 2 6	0.00 0.00 0.42	0.00	0	5 0.00 2 0.00 5 0.00		0.00	-	o	1.000 1.000 0.363	2 2 6	0.00 0.00 0.00	0.00 0.00 0.00	2	0.00 0.00 0.00	0.00 0.00	-	Q	1.000 1.000 1.000	2 2 6	0.00 0.00 0.00	0.00	2	0.00 0.00 0.00	0.00)	- 0	1.000 1.000 1.000
Habitat Mea	ms		0.13	0.1	3	0.00		0.00		+			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer'	s	Power Power				Power-50% Power-50%					0.403	Power Power				r-50% r-50%				0.655 0.500	Power Power			Power Power					0.655 0.500
19C/19 1642C/833 4537C/979	3		20.00	7.8	4	4 0.00 2 0.00 5 0.00		0.00	- -		0.066	0 4 3	0.00	0.00	2	0.00	0.00			1.000	0 4 3	0.00	0.00	2 5	0.00	0.00 0.00 0.00)	- - o - o	1.000
Habitat Mea	ins		10.00	3.9	0	0.00		0.00		-			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00)	0	
Fisher's		Power				Power-50% Power-50%					0.084	Power Power				r-50% r-50%				0.597 0.500	Power Power				-50% -50%				0.597 0.500

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

Table C-5.368. Page 3. December 15, 1994

		Mo	rphologic	al Gr	oup:	Tubular a	and Sa	cate	Gree	ene		В1	iding	a/Ent	eromorphe	1 (NE) (a)						_					
ite Pair	Mvd	N	c	SE	N	0	SE	CV	ם	P	N	С	SE	N	0	SE	ĊΨ	D	P	n	С	Se	N	0	SE	CA	D	P
9C/19 642C/833 537C/979	1	6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.0) –	0	1.000 1.000 1.000	4 6 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000									
abitat Mea	ns		0.00	0.00		0.00	0.0)	0			0.00	0.00		0.00	0.00		0										
Fisher's Stouffer's		Power Power				er-50% er-50%				0.655 0.500	Power Power				r-50% r-50%				0.655 0.500	Power Power			Power			P-valu P-valu		
9C/19 642C/833 537C/979	2	2 2 6	0.00	0.00	2	0.00	0.0	-	0	1.000 1.000 2.000	2 2 6	0.00 0.00 0.00	0.00 0.00 0.00	2	0.00 0.00 0.00	0.00 0.00 0.00	-	Q	1.000 1.000 1.000									
abitat Mea	ns		0.00	0.00		0.00	0.0)	0			0.00	0.00		0.00	0.00		0										
Fisher's Stouffer'		Power Power				er-50% er-50%				0.655	Power Power				r-50% r-50%		P-val P-val		0.655 0.500	Power Power			Power Power	-50% -50%		P-val: P-val:		
9C/19 642C/833 537C/979	3	0 4 3	0.00	0.00	2	0.00 0.00 0.00	0.0 0.0 0.0	- 0		1.000	0 4 3	0.00	0.00	2	0.00 0.00 0.00	0.00 0.00 0.00	-		1.000									
abitat Mea	ns		0.00	0.00		0.00	0.0)	0			0.00	0.00		0.00	0.00		0										
Fisher's Stouffer'		Power Power				er-50% er-50%				0.597 0.500	Power Power				r-50% r-50%				0.597 0.500	Power Power		 - 	Power Power			P-val: P-val:		

 ${\bf x}$ At least one site pair p-value < 0.100 in opposite direction of 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. Algal Percent Cover. Phaeophyta. Prince William Sound. Exposed Rocky. July 1991. Overstory removed August 1990. Table U-5.305. Algal Fercent Cover. Frameophyta, Frieds mattern sound. Dapped address, oury 1551. Overblory temoved address tables in the first statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; . = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes insufficient data.

				-	rotal :	Phaeoph	yta					Morp	hologi	ca1 6	roup:	Bladed Br	BITWO						Alari	а вр. (А	1)			
Site Pair	Mvd		с	SE	N	0	SE	CV	D	P	N	С	SE	И	0	SE	CV 1	D	P	N	c	SE	И	0	SE	C1	, D	P
19C/19 1642C/833 4537C/979	i 1	4 6 5	0.63 16.67 22.50	0.63 16.67 16.51	4	12.00 25.00 0.00	12.00 15.68 0.00	-	-	0.522 0.737 0.156	4 6 5	0.63 16.67 18.50	0.63 16.67 12.59	4	12.00 25.00 0.00	12.00 15.68 0.00	_ :	-	0.522 0.737 0.129	4 6 5	0.00 0.00 0.00	0.00 0.00 0.00	4 5	0.00	0.00) -	- 0	1.000 1.000 1.000
Habitat Mea Fisher's Stouffer'		Power Power			Power Power	12.33 -50% -50%		P-va		0.564 v 0.805	Power Power	0.009 0.001			12.33 r-50% r-50%	9.23 0.136 0.262	P-value		0.567 0.827	Power Power	0.00		Power Power	50%		P-va P-va	alue	0.655 0.500
19C/19 1642C/833 4537C/979	2	2 2 6	45.00 61.25 27.08	45.00 18.75 9.56	2	32.00 2.50 0.00	17.76 2.50 0.00) –	+	0.884 0.073 0.014	2 2 6	45.00 61.25 27.08	45.00 18.75 9.56	2	30.00 2.50 0.00	18.47 2.50 0.00	-	+	0.801 0.073 0.014	2 2 6	0.00	0.00	2 5	0.00	0.00) -	- 0	1.000 1.000 1.000
Habitat Mea Fisher's Stouffer'		Power			Power			P-va		0.006 0.002	Power Power	44.47		Powe	10.83 r-50% r-50%		P-valu P-valu		0.005 0.001	Power Power	0.00		Power Power			P-va		0.655 0.500
19C/19 1642C/833 4537C/979	3	0 4 3	35.00 16.67	10.10 7.41	4 2	23.13 17.50 37.00	19.19 17.50	-) -		0.289 0.646	0 4 3	26.87 15.83	6.95 8.21	2	23.13 17.50 37.00	19.19 17.50 20.35	-		0.381 0.573	0 4 3	0.00	0.00	2	0.00	0.00	0 -	- 0	1.000
Habitat Mea Fisher's Showffer'		Power			Power Power			2-va		0.325 y 0.449	Power Power	21.35 0.092 0.070		Powe	25.87 er-50% er-50%		P-valu P-valu		0.407 y 0.522	Power Power	0.00		Power Power			P-V		0.597 0.500

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

Juvenile Fucus gardneri (P) (<= 2cm) Adult Fucus gardneri (P) (> 2cm) Total Fucus gardneri (P) CV D P N С SE CV D P P N C CV D Site Pair Mvd N Ċ O RR 0.522 0.00 0.00 0.00 0.00 1.000 12.00 0.63 0.522 0.63 0.63 12.00 12.00 1907/19 0.00 1.88 1.88 0.391 0.775 0.00 - - 0.737 16.67 16.67 4 23.13 15.39 - -16.67 25.00 15.68 1642C/833 16.67 3.16 0.00 0.00 - + 0.181 5.00 - + 0.374 13.50 0.00 0.00 - + 0.12913.50 1 5 18.50 12.59 0.00 0.00 4537C/979 0.63 0.63 9.13 1.67 1.07 10,27 11 70 9.23 10.27 12.33 Habitat Means 11.93 9.97 0.014 P-value 0.357 Power-50% --- P-value 0.544 Power 0.008 0.131 P-value 0.567 0.017 Power-50% Power-50% Power 0.013 Fisher's Power 0.006 P-value 0.239 --- P-value 0.670 Power 0.003 Power-50% Power-50% Power-50% 0.268 P-value 0.827 Power 0.012 0.001 Stouffer's Power 1.000 0.801 0.00 0.00 0.00 0.00 - 0 45.00 45.00 30.00 18.47 0.801 45.00 45.00 5 30.00 18.47 190/19 0.073 0.00 0.00 0.00 0.00 - 0 2.50 - . - → 0.073 61.25 18.75 2.50 2.50 61.25 18.75 2.50 1642C/833 0.00 0.00 0.00 - 0 1,000 б 0.00 0.00 - - 0.014 0.00 - + 0.014 27.08 9.56 0.00 27.08 9.56 5 0.00 4537C/979 0.00 0.00 7.00 0.00 0.00 24.47 44.47 10.83 7.00 44.47 24.47 10.83 Habitat Means Power-50% --- P-value 0.655 Power-50% --- P-value 0.005 Power --- P-value 0.005 Power Power-50% Fisher's Power --- P-value 0.500 --- P-value 0.001 Power Power-50% Power-50% --- P-value 0.001 Power Power Power-50% Stouffer's 0.00 0.00 23.13 19,19 4 23.13 19.19 19C/19 - + 0.391 0.63 0.00 17.50 0.401 0.63 2 0.00 - + 0.381 26.25 7.18 17.50 6.95 17.50 1642C/833 26.87 2 17.50 0.00 - 0 1.000 0.00 0.00 0.00 - -0.573 3 20.35 - - 0.573 15.83 8.21 37.00 20.35 3 15.83 8.21 37.00 4537C/979 0.00 0.00 25.87 19.03 0.30 0.30 7.70 21.05 21.35 7.60 25.87 19.03 Habitat Means --- P-value 0.325 0.167 P-value 0.421 y Power Power-50% 0.092 Power-50% 0.160 P-value 0.407 y Power Power-50% Fisher's Power 0.092 --- P-value 0.335 0.006 P-value 0.529 --**-**Power-50% 0.003 P-value 0.522 Power 0.067 Power-50% Power-50% 0.066 Power

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between babitat means is different than direction of overall tests.
z Doly one site pair.</pre>

Table C 5.369, Page 1, December 15, 1994

Table C-5.369. Algal Percent Cover. Phasophyta. Prince William Sound. Exposed Rocky. July 1991. Overstory removed August 1990. (Continued.)

				Fuc	us St	ipes (P)	(a)				М	rphologic	al Gr	oup:	Coarse P	ilament	ous I	Brow	mė			Ana	lipus	japonicu	s (P)			
Site Pair	Mvd	N	c	SE	N	0	SE	CV	D	P	N	c	SE	N	٥	SE	CV	D	P	N	С	SE	N	0	SE	•	O V	P
19C/19 1642C/833 4537C/979	1 1 1	4 6 5	0.00 0.00 0.00	0.00	4	0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	4 6 5	0.00 0.00 4.00	0.00 0.00 4.00	4	0.00 0.00 0.00	0.00 0.00 0.00		0	1.000 1.000 0.374	4 6 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00)		1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00		0.00	0.00		0			1.33	1.33		0.00	0.00		+			0.00	0.00		0.00	0.00	Ď	0	
Fisher's Stouffer'		Power Power			Power			P-val P-val		0.655 0.500	Power Power				x-50% x-50%		P-val P-val		0.409 0.228	Power Power			Power Power					0.655
19C/19 1642C/833 4537C/979	2	2 2 6	0.00 0.00 0.00	0.00	2	0.00 0.00 0.00	0.00	-	0	1.000 1.000 1.000	2 2 6	0.00 0.00 0.00	0.00	2	0.00 0.00 0.00	0.00 0.00 0.00	-	o	1.000 1.000 1.000	2 2 6	0.00 0.00 0.00	0.00 0.00 0.00	2	0.00 0.00 0.00	0.00 0.00 0.00	D D	- 0	1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00		0.00	0.00	1	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	s	Power			Power			P-va P-va		0.655	Power Power				r=50% r-50%		P-val P-val		0.655 0.500	Power Power			Power Power					0.655 0.500
19C/19 1642C/833 4537C/979	3	0 4 3	0.00	0.00	2	0.00	0.00) -	0	1.000	0 4 3	0.63 0.00	0.63		0.00 0.00 0.00	0.00 0.00 0.00	-		0.39 <u>1</u> 1.000	0 4 3	0.00	0.00	2	0.00	0.00 0.00 0.00	0	- - o - o	1.000
Habitat Mea	-	,	0.00	0.00		0.00	0.00)	0			0.30	0.30		0.00	0.00					0.00	0.00		0.00	0.00	0	0	
Fisher's		Power			Power	:-50% 5ብ%				0.597 0.500	Power Power				er-50% er-50%		P-val P~val		0.325 0.335	Power Power			Power Power	r-50% r-50%				0.597 0.500

(a) Dead rucus prance of screes without brades.

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

				Die	ctyosi	phon sp.	(A)				My	elophy	cus/S	Scytosipho	on (A) (a)				forpholog	gical G	roup:	Fine :	Filamento	us Br	OWI	9
ite Pair	Mvd	N	c	SE	N	0	SE	23		N	С	SE	N	0	SE	ÇV	D	P	N	С	SE	N	0	SE	CV	D	P
9C/19 642C/833 537C/979	1	4 6 5	0.00	0.00	4	0.00	0.00 0.00 0.00	-	o 1.000 o 1.000 o 1.000	4 6 5	0.00 0.00 4.00	0.00 0.00 4.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-		1.000 1.000 0.374	4 6 5	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000
bitat Mea			0.00	0.00		0.00	0.00		0		1,33	1.33		0.00	0.00		+			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'		Power Power			Power	r-50% r-50%		-valı	e 0.655 e 0.500	Power Power				r-50% r-50%		P-va. P-va		0.409 0.228	Power Power			Power Power					0.655 0.500
C/19 642C/833 637C/979	2	2 2 6	0.00 0.00 0.00	0.00	2	0.00 0.00 0.00	0.00	-	o 1.000 o 1.000 o 1.000	2 2 6	0.00 0.00 0.00	0.00	2	0.00 0.00 0.00	0.00	-	0	1.000 1.000 1.000	2 2 6	0.00 0.00 0.00	0.00 0.00 0.00	2	0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000
bitat Mea	ns		0.00	0.00		0.00	0.00		D		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	e	Power Power				r-50% r-50%			e 0.655 e 0.500	Power Power				r-50% r-50%		P-val P-val		0.655 0.500	Power Power			Power Power	-50% -50%				0.655
0C/19 542C/833 537C/979	3		0.00	0.00	4 2	0.00 0.00 0.00	0.00	-	o 1.000 o 1.000	0 4 3	0.63 0.00	0.63 0.00	2	0.00	0.00 0.00 0.00	-	0	0.391 1.000	0 4 3	7.50 0.00	4.33 0.00	2	0.00	0.00 0.00 0.00	-		0.182
abitat Mea	ns		0.00	0.00		0.00	0.00		0		0.30	0.30		0.00	0.00		٠			3.75	2.15		0.00	0.00	1	+	
Fisher's		Power Power				r-50% r-50%			e 0.597 e 0.500	Power Power				r-50% r-50%				0.325 0.335	Power Power	0.000			c-50% c-50%		P-val P-val		0.186 0.254

(a) Genera not coperated.

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

Table C-5.369. Page 3. December 15, 1994

Table C-5.369. Algal Percent Cover. Phasophyta, Prince William Sound. Exposed Rocky. July 1991. Overstory removed August 1990. (Continued.)

			Fir	e Fila	amentou	g Brow	ns (AE)	(b)				Morph	ologi	al G	roup: Sa	ccate B	COMUS					Leathe	sia/Co	olpomenia	(A) (a)	1		
Site Pair	Mvd	1 N	С	SE	N	0	SE	cv	ם	p	N	c	SE	N	0	SE	ÇV	D	р	N	С	SE	N	0	SE	CV	D	P
19C/19 1642C/833 4537C/979	1	4 6 5	0.00	0.00	4	0.00	0.0	0 -	0	1.000 1.000 1.000	4 6 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00	-	0 0 0	1.000 1.000 1.000	4 6 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	s	Power Power			Power-			P-va P-va		0.655 0.500	Power Power				r-50% r-50%				0.655 0.500	Power Power				r-50% r-50%				0.655 0.500
19C/19 1642C/833 4537C/979	2	2 2 6	0.00 0.00 0.00	0.00	2	0.00	0.0	0 -	0	1.000 1.000 1.000	2 2 6	0.00	0.00 0.00 0.00	2	2.00 0.00 0.00	2.00 0.00 0.00	-		0.374 1.000 1.000	2 2 6	0.00 0.00 0.00	0.00 0.00 0.00	2	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000
Habitat Mea	ıns		0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.67	0.67		-			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	s	Power Power			Power-					0.655 0.500	Power Power				r-50% r-50%		P-valı P-valı		0.409	Power Power				r-50% r-50%				0.655 0.500
19C/19 1642C/833 4537C/979	3 3 3		7.50 0.00	4.33 0.00	2	0.00 0.00 0.00	0.0	0 -		0.182 1.000	0 4 3	0.00 0.83	0.00 0.83		0.00	0.00 0.00 0.00	-		1.000 0.423	0 4 3	0.00	0.00	2	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 0.423
Habitat Mea	ns		3.75	2.15		0.00	0.0	0				0.40	0.40		0.00	0.00		+			0.40	0.40		0.00	0.00		+	
Fisher's Stouffer'	s	Power Power	0.000		Power- Power-		0.000	P-va P-va	lue lue	0.186 0.254	Power Power				r-50% r-50%		P-valı P-valı		0.343 0.243	Power Power				r-50% r-50%				0.343

(b) Elachists, Ectocarpus and Pilayella.

(a) General mod expansion. x At least one site pair p-value < 0.100 in opposite direction of oversil tests. y Direction of difference between habitat means is different than direction of oversil tests. ≥ Only one site pair.

Morphological Group: Crustose Browns Ralfsia/Petroderma (P) (a) Soranthera ulvoidea (A) С SB 0 SE CA D P N CV D P C SE CV D P 0 gr Site Pair Mvd N С SE N 0.00 1.000 1.000 0.00 0.00 0.00 ~ D 0.00 0.00 .000 0.00 0.00 0.00 0 0.00 0 190/19 0.00 1.000 0.00 0.00 0.00 0.00 - 0 1.000 0.00 1.000 0.00 0.00 0.00 - n 0.00 0.00 0.00 0 1642C/833 0.00 0.00 0.00 - o 1.000 1.000 0.00 1.000 0.00 0.00 0.00 0.00 0.00 0 0.00 0.00 5 0.00 0 5 4537C/979 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 O Habitat Means Power-50% --- P-value 0.655 Power-50% --- P-value 0.655 Power Power-50% --- P-value 0.655 Power Fisher's Power ------ P-value 0.500 Power-50% --- P-value 0.500 Power-50% Power Power-50% --- P-value 0.500 Power Stouffer's Power 0.00 - o 1.000 1.000 0.00 0.00 0.00 0.00 0.00 5 0.00 0.00 - 0 0.00 0.00 5 2.00 2.00 - - 0.374 190/19 0.00 1.000 0.00 0.00 0.00 0.00 - 0 1.000 0.00 0.00 0.00 0 0.00 0.00 0.00 - o 1.000 1642C/833 0.00 - p 1.000 0.00 0.00 5 0.00 0.00 - 0 1.000 0.00 0.00 5 0.00 0.00 0.00 0.00 0.00 - 0 1.000 б 0.00 4537C/979 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0.00 0.00 0.00 0.67 0.67 Habitat Means Power-50% --- P-value 0.655 --- P-value 0.409 Power-50% --- P-value 0.655 Power ---Power Power-50% Fisher's Power --- P-value 0.500 Power-50% --- P-value 0.408 Power Power-50% --- P-value 0.500 Power Stouffer's Power ___ Power-50% 0.00 0.00 0.00 0.00 n 19C/19 0 4 0.00 0.00 - 0 1.000 0 1.000 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 -4 0.00 0 00 - o 1.000 1642C/833 0.00 0.00 - 0 1,000 0.00 0.00 0.00 5 0.00 - 0 1.000 0.00 0.00 5 0.00 0.00 _ 0 1.000 0.00 4537C/979 0.00 0.00 5 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 Habitat Means 0.00 0.00 0 --- P-value 0.597 ---Power-50% --- P-value 0.597 --- P-value 0.597 Power-50% Power Power-50% Power Fisher's Power --- P-value 0.500 Power-50% Power-50% --- P-value 0.500 Power ---Power-50% --- P-value 0.500 Power Stouffer's Power ---

(a) Comera not separated.
At least one site pair p-value < 0.100 in opposite direction of overall tests.</p>
y Direction of difference between habital means is different than direction of overall tests.
c Only one site pair.

Table C-5.369, Page 5, December 15, 1994

Table 2-5.369. 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; P = probability value; dashes = insufficient data.

				7	rotal	Rhodoph	yta					Mort	holog	ical	Group: E	Bladed R	eds						Bangi	a sp. (A)	5)			
Site Pair	Mvd	1 N	С	SE	N	0	SE	cv	Ď	P	N	С	SE	N	0	SE	CΛ	D	P	N	С	SE	N	0	SE	cv	D	P
19C/19 1642C/833 4537C/979	1 1 1	4 6 5	5.00 0.00 0.00	5.00 0.00 0.00	4	0.00 15.00 0.00	0.00 7.36 0.00	-	-	0.391 0.081 1.000	4 6 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	4 6 5	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00	- 1 -	0	1.000 1,000 1,000
Habitat Mea Fisher's Stouffer'		Power Power			Power					0.222	Power Power	0.00	0.00		0.00 r-50% r-50%		P-val		0.655 0.500	Power Power	0.00		Powe	0.00 r-50% r-50%		P-va		0.655 0.500
19C/19 1642C/833 4537C/979	2 2	2 2 6	0.00 0.00 31.25	0.00 0.00 12.41	2	4.00 0.00 1.50	1.87 0.00 1.50	-	O	0.078 1.000 0.056	2 2 6	0.00 0.00 0.00	0.00 0.00 0.00	2	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	2 2 6	0.00 0.00 0.00	0.00	2 5	0.00	0.00) -	0	1.000 1.000 1.000
Habitat Mea Fisher's Stouffer'		Power Power			Power			P-val		0,197x 0.127	Power Power	0.00	0.00		0.00 r-50% r-50%		P-val		0.655 0.500	Power Power	0.00		Powe	0.00 r-50% r-50%		P-va		0.655 0.500
19C/19 1642C/833 4537C/979	3	0 4 3	15.63 25.83	10.63 15.96	4 2	22.50 41.25 10.50	16.52 23.75 6.44	-	_	0.275 0.438	0 4 3	0.00	0.00		5.62 32.50 4.50	5.63 15.00 2.29			0.171 0.090	0 4 3	0.00	0.00	2	0.00 8.75 0.00	0.00 8.75 0.00	5 -		0.500 1.000
Habitat Mea		Power			Power					0.347	Power Power	0.00	0.00	Powe	14.20 r-50% r-50%		P-val		0.025 0.016	Power Power	0.00		Powe	2.93 er-50% er-50%		P-va		0.385 0.369

x At least one site pair p value < 0.100 in coposite direction of overall tests. y Direction of d) fference between hebital means is different than direction of overall tests. only one eire pair.

Table C 5.370, Page 1, December 15, 1994

Culy one sits	pair.			a			(5) (-)						F	alma	ria eDD.	(A)						Ph	ycodry	s riggii	(A)			
Site Pair	Mvd			EB EB	N N	O Grown	SE.	cv	D	P	N	c	\$B	N	0	SE	ÇV.	D	P	N	С	SE	N	0	SE	-	CA D	P
19C/19 1642C/833 4537C/979		4 6 5	0.00 0.00 0.00	0.00	4	0.00	0.00	-	0	1.000 1.000 1.000	4 6 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.30 0.30 0.30	0.00 0.00 0.00	-	0	1.000 1.000 1.000	4 6 5	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	0	- 0	1.000 1.000 1.000
abitat Mea	ns	_	0.00	0.00		0.00	0.00		0			0.00	0.00		0.30	0.00		o			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'		Power			Power			P-val P-val	ue ue	0.655 0.500	Power Power				er-50 \$ er-50 \$				0.655 0.500	Power Power				c-50% c-50%				0.655
9C/19 .642C/833 .537C/979	2	2 2 6	0.00	0.00	2	0.00 0.00 0.00	0.00	-	0	1.000 1.000 1.000	2 2 6	0.00 0.00 0.00	0.00 0.00 0.00	2	0.30 0.30 0.30	0.00 0.00 0.00	-	0	1.000 1.000 1.000	2 2 6	0.00	0.00 0.00 0.00	2	0.00 0.00 0.00	0.00 0.00 0.00	0	- 0	1.000 1.000 1.000
abitat Mea		•	0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'		Power Power			Power			P-val P-val	lue lue	0.655	Power Power				er-50% er-50%		P-val: P-val:			Power Power				r-50% r-50%				0.655
9C/19 642C/833 537C/979	3	0 4 3	0.00 0.00	0.00	4 2	3.13 2.50 2.50	3.13 2.50 1.94	-		0.500 0.209	0 4 3	0.00	a. 00 c. 00		0.63 20.00 2.00	0.63 20.00 2.00	- - -		0.500 0.374	0 4 3	0.00	0.00	2	0.63 0.00 0.00	0.63 0.00 0.00	0		1.000
Habitat Mea	_	,	0.00	0.00		2.70	2.50		-			0.00	C.00		7.53	7.53		-			0.00	0.00		0.20	0.20		٥	
Fisher's Stouffer'		Power Power	0.111		Power					0.121	Power Power				er-50% er-50%		P-valı P-valı		0.190 0.134	Power Power				r-50% r-50%				0.597 y 0.500

(a) Chondrus, Iridaes, Mastocarpus and Rhodogbasum.

x At least one site pair p-value < 0.100 in opposite direction of 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. Algal Percent Cover. Rhodophyta. Prince William Sound. Exposed Rocky. July 1991. Overstory removed August 1990. (Continued.)

					Porph	уга вр. (A)						rokida	dendr	on kurile	nsis (A)				Morpholog	gical (Group:	Coars	e Filame	nto	us Red	1.0
Site Pair	MV	d N	С	SE	N	0	\$E	CV	D	Þ	N	c	SE	N	0	SE	ÇV	D	P	N	С	SE	N	0	SE	C	V D	P
19C/19 1642C/833 4537C/979		4 6 5	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00	- (0		4 6 5	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00	-	0	1.000 1.000 1.000	4 6 5	5.00 0.00 0.00	5.00 0.00 0.00	4	0.00 15.00 0.00	0.00 7.36 0.00	5	- +	0.391 0.081 1.000
Habitat Mea	ns		0.00	0.00	1	0.00	0.00)	0			0.00	0.00		0.00	0.00		0			1.67	1.67		5.00	2.47		-	1.000
Fisher's Stouffer'	s	Power Power				r~50% r~50%				0.655 0.500	Power Power				r-50% r-50%				0.655 0.500	Power Power	0.056 0.010			r-50% r-50%				0.222
19C/19 1642C/833 4537C/979	2	2 2 6	0.00 0.00 0.00	0.00 0.00 0.00	2	0.00 0.00 0.00	0.00	- (0	1.000 1.000 1.000	2 2 6	0.00 0.00 0.00	0.00 0.00 0.00	Z	0.00	0.00	-	0	1.000 1.000 1.000	2 2 6	0.00 0.00 31.25	0.00 0.00 12.41	2	4.00 0.00 1.50	1.87 0.00 1.50	}	- 0	0.078 2.000 0.056
Habitat Mea	ns		0.00	0.00		0.00	0.00)	0			0,00	0.00		0.00	0.00		0			10.43	4.13		1.83	1.13		+	0,050
Fisher's Stouffer's	8	Power Power				r-50% r-50%				0.655 0.500	Power Power				r-50% r-50%				0.655	Power Power	0.094			=-50% =-50%	0.029	P-v		0.197× 0.127
19C/19 1642C/833 4537C/979	3	0 4 3	0.00	0.00	2	0.00 0.00 0.00	0.00	-		1.000	0 4 3	0.00 0.00	0.00	2	1.25 1.25 0.00	1,25 1,25 0,00	-		0.500	0 4 3	15.63 15.00	10.63 7.50	2	16.88 8.75 1.50	11.24 8.75 1.00			0.813 0.114
Habitat Mea	ns		0.00	0.00		0.00	0.00)	0			0.00	0.00		0.87	0.87		_		•	15.30	9.05		9.07	7.00			0.114
Fisher's Stouffer's	8	Power Power				r~50% r~50%				0.597 0.500	Power Power				r-50% r-50%				0.385 0.369	Power	0.444			-50% -50%	0.133	D-16		0.110

x At least one site pair p-value < 0.100 in opposite direction of overall tests.</p>
y Direction of difference between habital peans is different than direction of overall cests.
x Only one site pair.

Table C-5.370. Page 3. December 15, 1994

				Cryp	osiph	onia wo	odii (A)						Endo	clad:	ia murica	ta (P)						G1o	iopelt	is furcat	ta (A)			
Site Pair	Mv	1 N	С	SE	N	0	82	cv	D	P	N	c	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	C	V D	P
19C/19 1642C/833 4537C/979		4 6 5	0.00 0.00 0.00	0.00 0.00	4	0.00	0.00 0.00 0.00	-		1.000 1.000 1.000	4 6 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 3.75 0.00	0.00 3.75 0.00	-	- (1.000 0.391 1.000	4 6 5	0.00 0.00 0.00	0.00	4	0.00 11.25 0.00	0.00 8.26 0.00		-	1.000 0.214 1.000
Habitat Mea	ins		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 Stouffer'	s	Power Power			Power Power					0.655 0.500	Power Power				r-50% r-50%		P-value P-value		0.419	Power	0.007		Power	-50% -50%				0.299
19C/19 1642C/833 4537C/979	2	2 2 6	0.00 0.00 0.00	0.00 0.00 0.00	2	2.00 0.00 0.00	2.00 0.00 0.00	-		0.374 1.000 1.000	2 2 6	0.00 0.00 0.00	0.00 0.00 0.00	2	0.00 0.00 0.00	0.00 0.00 0.00	- (0 :	1.000	2 2 6	0.00 0.00 0.42	0.00	2	1.00 0.00 1.50	1.00 0.00 1.50			0.374 1.000 0.629
Habitat Mea	ns.		0.00	0.00		0.67	0.67		-			0.00	0.00		0.00	0.00	(0.13	0.13		0.83	0.83		_	0.023
Fisher's Stouffer'	ş	Power Power			Power Power					0.409	Power Power				r-50% r-50%		P-value P-value			Power Power			Power	-50%	3			0.316 0.262
19C/19 1642C/833 4537C/979	3 3 3	0 4 3	1.88 1.67	1.20 1.67	-	5.00 0.00 0.50	5.00 0.00 0.50	-		0.191 0.554	0 4 3	0.00	0.00		0.00	0.00 0.00 0.00				0 4 3	0.00	0.00		0.00	0.00	-	. ,	1.000
Habitat Mea	ns		1.80	1.45		1.83	1.83		•			0.00	0.00		0.00	0.00	c	0			0.00	0.00	-	0.00	0.00		0	2.000
Fisher's Stouffer's	s	Power Power	0.212 0.292		Power Power					0.123 y 0.123	Power Power				r-50% r-50%		P-value P-value			Power Power			Power Power	-50%	I	P-va	lue	0.597

x At least one site pair p-value < 0,100 in opposite direction of overall tests.
y Direction of difference between habital means is different than direction of overall tests.
z Chly one some pair.

Table C-5.370. Algal Percent Cover. Rhodophyta. Prince William Sound. Exposed Rocky. July 1991. Overstory removed August 1990. (Continued.)

				eorhod	lomela.	/Abodome	la (P)	(a)					Odon	thali	ia flocco	spa (P)						Ptilo	ta/Nec	ptilota	(P) (b)			
Site Pair	Mvd	N	С	\$E	N	0	SE	cv	D	₽	N	С	SE	N	0	SE	CV 1	D	P	N	С	SE	N	0	SE	CV	D	P
19C/19 1642C/833 4537C/979	1	4 6 5	5.00 0.00 0.00	5.00 0.00 0.00	4	0.00 0.00 0.00	0.00) –		0.391 1.000 1.000	4 6 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- 0	0	1.000 1.000 1.000	4 6 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	O	1.000 1.000 1.000
Habitat Mea	ins		1.67	1.67	•	0.00	0.00)	+			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'		Power Power				r-50% r-50%				0.419 0.412	Power Power				r-50% r-50%		P-value P-value		0.655 0.500	Power Power			Power					0.655 0.500
19C/19 1642C/833 4537C/979		2 2 6	0.00 0.00 23.75	0.00 0.00 12.87	2	0.00 0.00 0.00	0.00 0.00 0.00	- (1.000 1.000 0.099	2 2 6	0.00 0.00 7.08	0.00 0.00 7.08	2	1.00 0.00 0.00	1.00 0.00 0.00	- (0	0.374 1.000 0.363	2 2 6	0.00 0.00 0.00	0.00 0.00 0.00	2	0.00 0.00 0.00	0.00 0.00 0.00	-	٥	1.000 1.000 1.000
Habitat Mea	ns		7.93	4.30		0.00	0.00)	+			2.37	2.37		0.33	0.33		i			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'		Power Power	0.018			r-50% r-50%		P-val P-val		0.186 0.083	Power Power				r-50% r-50%		P-value P-value		0.517 0.298	Power Power				-50% -50%				0.655 0.500
19C/19 1642C/833 4537C/979	3	0 4 3	0.00 7.50	0.00 7.50	2	0.00 5.00 1.00	0.00 5.00 1.00) -		0.500 0.408	0 <u>4</u> 3	13,75 5.83	10.03 5.83	4 2 5	11.87 1.25 0.00	11.87 1.25 0.00			0.509 0.423	0 4 3	0.00 0.00	0.00	2	0.00 2.50 0.00	0.00 2.50 0.00			0.500 1.000
Habitat Mea	ES		3.75	3.75		2.00	2.00)	٠			9.80	7.90		4.40	4.40		+			0.00	0.00		0.83	0.83		-	
Fisher's Stouffer'		Power Power				r-50% r-50%				0.440 0.351	Power Power	0.051 0.098			r-50% r-50%		P-value P-value		0.211 0.153	Power Power			Power					0.385 0.369

(a) Senera not separated.

(D) Genera not separated.

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

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

Z Only one site pair.

Table 0-5.370: Page 5. December 15, 1994

			Mor	pholog	ical G	roup: 8	ccate	Reds					Halosa	ccio	n glandife	orme (A)				Morphol	ogical	Group	Fine :	Filament	ous Red	s
Site Pair	Mv	N	С	SE	N	0	SE	cv	D	P	N	c	SE	N	0	SE	CA D	P	N	c	SE	N	-	SE	ÇV D	P
19C/19 1642C/833 4537C/979	1 1 1	4 6 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	4 6 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- 0 - 0 - 0	1.000	4 6 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- 0	1.000 1.000 1.000
Habitat Mea	ins		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	0			0.00	0.00		0.00	0.00	0	
Fisher's Stouffer'	s	Power Power			Power Power			P-valı P-valı		0.655 0.500	Power Power				er-50% er-50%		?-value ?-value		Power Power			Power Power				0.655 0.500
19C/19 1642C/833 4537C/979		2 2 6	0.00 0.00 0.00	0.00	2	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	2 2 6	0.00 0.00 0.00	0.00 0.00 0.00	2	0.00 0.00 0.00	0.00 0.00 0.00	- 0 - 0	1.000 1.000 1.000	2 2 6	0.00 0.00 0.00	0.00 0.00 0.00	2	0.00 0.00 0.00	0.00 0.00 0.00	- o - o	
Habitat Mea	ns		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	o			0.00	0.00		0.00	0.00	0	
Fisher's Stouffer'	s	Power Power			Power Power			P-val: P-val:		0.655 0.500	Power Power				er-50% er-50%		-value -value	0.655 0.500	Power Power			Power Power				0.655 0.500
19C/19 1642C/833 4537C/979	3 3 3	0 4 3	0.00 10.83	0.00 10.83	2	0.00 0.00 3.00	0.00 0.00 2.42	- -		1.000 0.596	0 4 3	0.00 10.83	0.00 10.83	2	0.00 0.00 0.00	0.00 0.00 2.42	- - o - +	1.000 0.596	0 4 3	0.00 0.00	0.00	2	0.00 0.00 0.00	0.00 0.00 0.00	- - o	1.000
Habitat Mea	ns		5.40	5.40		1.00	0.80		+			5.40	5.40		1.00	0.80				0.00	0.00		0.00	0.00	0	
Fisher's Stouffer'	5	Power Power	0.016 0.012		Power Power					0.433 0.323	Power Power	0.016 0.012			er-50% er-50%		-value -value		Power Power			Power Power			-value -value	0.597 0.500

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

Table C-5.370. Algal Percent Cover. Rhodophyta. Prince William Sound. Exposed Rocky. July 1991. Overstory removed August 1990. (Continued.)

			Poly	siphor	ia/Pt	erosiphor	nia (A)	(a)				Morph	ologi	cal G	roup: Cr	ustose	Reds					Crusto	se Cor	alline A	lgae (P)		
Da	Mvd	N I	С	SE	N	٥	SE	CA	D	P	N	С	SE	N	0	SE	CV 1	D	P	N	С	SE	N	0	SE	C	V D	P
19C/19 1642C/833 4537C/979	1 1 1	4 6 5	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- -	0	1.000 1.000 1.000	4 6 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- 6	0	1.000 1.000 1.000	4 6 5	0.00 0.00 0.00	0.00 0.00 0.00	4 5	0.00 0.00 0.00	0.00 0.00 0.00		- 0	1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	(0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'		Power Power			Power			P-val P-val		0.655 0.500	Power Power				r-50% r-50%		?-vaiue ?-value		0.655	Power Power			Power	-50% -50%				0.655 0.500
19C/19 1642C/833 4537C/979		2 2 6	0.00	0.00 0.00 0.00	2	0.00 0.00 0.00	0.00 0.00 0.00		0	1.000 1.000 1.000	2 2 6	0.00 0.00 0.00	0.00	2	0.00 0.00 0.00	0.00 0.00 0.00	- 4	0	1.000	2 2 6	0.00 0.00 0.00	0.00 0.00 0.00	2	0.00 0.00 0.00	0.00 0.00 0.00	ſ	- 0	1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	•	o			0.00	0.00		0.00	0.00	ı	0	
Fisher's Stouffer'	s	Power Power			Power			P-val P-val		0.655 0.500	Power Power				r-50% r-50%		P-value P-value		0.655 0.500	Power Power				-50% -50%				0.655 0.500
19C/19 1642C/833 4537C/979	3 3 3	0 4 3	0.00	0.00	2	0.00	0.00	-	0	1.000	0 4 3	0.00	0.00	2	0.00 0.00 1.50	0,00 0.00 1.50			1.000 0.374	0 4 3	0.00	0.00	2	0.00 0.00 1.50	0.00 0.00 1.50)		1.000
Habitat M⊖a	ns		0.00	0.00		0.00	0.00		0			0.00	0.00		0.50	0.50		-			0.00	0.00		0.50	0.50)	-	
Fisher's	e	Power			Power	:-50% :-50%		P-val P-val		0.597 0.500	Power Power				r-50% r-50%		P-valu P-valu		0.315 0.220	Power Power				c-50% c-50%				0.315

(a) concre dos sepulacions

x At least one site pair p-value c 0.100 in opposits direction of overall costs. y Direction of difference between habitet peans is different than direction of overall tests. z Only one site pair.

Table C-5.370. Page 7. December 15, 1994

-				Hil	denbr	andia sp.	(P)							Petr	ocelis (P	')												
Site Pair	Mvd	N	С	SE	N	0	SE	ÇV	D	P	N	c	SE	N	0	SE	CA	D	P	N	с	SE	N	0	SE	C	V D	P
19C/19 1642C/833 4537C/979	1	4 6 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.0	0 -	0	1.000 1.000 1.000	4 6 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	O	1.000 1.000 1.000									
Habitat Mea	ns		0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00		0										
Fisher's Stouffer'	S	Power Power				r-50% r-50%				0.655 0.500	Power Power				r-50% r-50%				0.655 0.500	Power Power			Power			P-v		
19C/19 1642C/833 4537C/979	2	2 2 6	0.00	0.00	2	0.00	0.0	0 -	0	1.000 1.000 1.000	2 2 6	0.00 0.00 0.00	0.00 0.00 0.00	2	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000									
Habitat Mea	ns		0.00	0.00	,	0.00	0.0	0	0			0.00	0.00		0.00	0.00		0										
Fisher's Stouffer'	s	Power Power				r-50% r-50%				0.655 0.500	Power Power				r-50% r-50%				0.655	Power Power			Power Power			P-v P-v		
19C/19 1642C/833 4537C/979	3	0 4 3	0.00	0.00	2	0.00 0.00 0.00	0.0	0 -	0	1.000	0 4 3	0.00	0.00	2	0.00	0.00 0.00 0.00	-	o	1.000									
Habitat Mea	ins		0.00	0.00)	0.00	0.0	0	o			0.00	0.00		0.00	0.00	ı	0										
Fisher's Stouffer'	s	Power Power				r-50% r-50%		P-va P-va	lue lue	0.597 0.500	Power Power				r-50% r-50%				0.597 0.500	Power Power			Power Power			P-v		

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

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; CV = coefficient of variation; SE = standard error; D = direction of difference; + % control > oiled; - = control < oiled; 0 = control % oiled; P = probability value; dashes : insufficient data.

					Act	iniidae								Ba1	anomorph	a							Lot	ttiidae				
Site Pair	Mvd	N	С	SE	N	0	SE	CV	D	P	N	c	SE	N	٥	SE	CV :	D	P	N	С	SE	N	0	SB	c	V D	P
19C/19 1642C/833 4537C/979	1 1 1	4 6 5	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00		0	1.000 1.000 1.000	6 5	5.62 0.00 0.50	5.63 0.00 0.50	4	0.00 4.37 0.00	0.00 2.95 0.00	-	-	0.391 0.198 0.374	4 6 5	1.88 0.00 0.00	1.20 0.00 0.00	4 5	0.00	0.00	+	- o	0.191 1.000 1.000
Habitat Mea	ns		0.00	0.00		0.00	0.00		Ò			2.03	2.03		1.47	1.00		+			0.63	0.40		0.00	0.00		+	
Fisher's Stouffer'	9	Power			Power			P-val P-val		0.655	Power Power	0.003			er-50% er-50%		P-valu P-valu		0.337	Sower Sower	0.026 0.007		Power					0.280 0.367
19C/19 1642C/833 4537C/979	2	2 2 6	0.00	0.00	2	0.00 0.00 0.00	0.00 0.00 0.00			1.000 1.000 1.000	2 2 6	0.00 10.00 3.75	0.00 10.00 2.12	2	4.00 28.75 0.00	2.92 21.25 0.00	-	-	0.199 0.476 0.096	2 2 6	0.00 0.00 0.00	0.00 0.00 0.00	2	0.00 0.00 0.00	0.00 0.00 0.00)	- 0	1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00		0.00	0.00		0			4.60	4.03		10.93	8.07		-			0.00	0.00		0.00	0.00		Q	
Fisher's Stouffer'		Power Power			Power					0.655	Power Power	0.043			er-50% er-50%		P-valu P-valu		0.270x 0.763	Power Power			Power Power					0.655
19C/19 1642C/833 4537C/979	3	0	0.00	0.00	4 2	0.00	0.00		0	1.000	0 4 3	6.25 3.33	6.25 3.33	2	33.75 0.00 9.00	23.57 0.00 9.00	-		0.391 0.857	0 4 3	0.00	0.00	2	0.00	0.00 0.00 0.00)	- - o - o	1.000
Habitat Mee	_	_	0.00	0.00		0.00	0.00		o			4.80	4.80		14.27	10.87		-			0.00	0.00		0.00	0.00)	С	
Fisher's Stouffer'		Power Power			Power					0.597 0.500	Power Power	0.012			er-50% er-50%				0.357 y 0.394	Power Power			Power Power					0.597 0.500

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

Tabl. 05.371. Page 1. December 15, 1994 Littorinidae

Only one site					164	tilus						3	Nuce1	la lamello	osa.							Lit	torinida	.e			
ite Pair	Mvđ	N	С	SE	N M	0	SE	cv	D	P N	c	SE	N	0	SE	CV	D	P	N	С	SE	N	0	ge	Ç1	7 D	P
19C/19 1642C/833 1537C/979	1 1 1	4 6 5	1.25 0.00 1.00	1.25 0.00 1.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	· 0.	000 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	4 6 5	0.00 0.00 0.00	0.00 0.00 0.00	4 5	0.00 0.00 0.00	0.00		- 0	
abitat Mea		Power	0.77	0.77	Power		0.00	P-valu	e 0.	238 Pow 166 Pow			Powe	0.00 er-50% er-50%		P-val		0.655	Power	0.00	0.00	Powe	0.00 r-50% r-50%		P-va		0.655
Stouffer' 19C/19 1642C/833 1537C/979	2	Power 2 2 6	0.00 0.00 4.17	0.00 0.00 2.93	2	0.00 0.00 0.00	0.00 0.00 0.00	-	o 1.	000 2 000 2	0.00 0.00 0.00	0.00	5	0.00 0.00 0.00	0.00	-	0	1.000	2 2 6	0.00 0.00 1.67	0.00 0.00 0.83	2 5	0.00 0.00 0.00	0.00 0.00 0.00		- 0	
Mabitat Mea Fisher's		Power	0.006	0.97	Power Power			P-valu P-valu		276 Pow 134 Pow			Pow	0.00 er-50% er-50%		P-val P-val		0.655 0.500	Power Power	0.57	0.27	Powe	0.00 r-50% r-50%		P-va		
Stouffer' 9C/19 642C/833	3	Power 0 4 3	0.001 5.00 0.00	5.00	4 2	0,00 0.00 0.00	0.00	<u>-</u>	+ 0.	0 391 4 000 3	0.00	0.00	4 2	0.00	0.00 0.00 0.00	-	~	1.000 1.000	0 4 3	0.00 0.00	0.00	2	0.00	0.00 0.00 0.00		- - o - o	1.000
1537C/979 Habitat Mea Fisher's Scouffer'	ns	Power Power	2.50	2.50		0.00	0.00		+ ne 0.				Pow	0.00 er-50% er-50%		P-val		0.597	Power Power	0.00	0.00	Powe	0.00 er-50% er-50%		P-v		0.597 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. Algal Percent Cover. Invertebrates. Prince William Sound. Exposed Rocky. July 1991. Overstory removed August 1990. (Continued.)

					Mo	llusca																						
Site Pair	Mvd	N	c	SE	N	0	gr	CA	D	P	N	С	SE	N	٥	SE	ÇV	D	P	N	¢.	SE	N	0	SE	CV	D	P
19C/19 1642C/833 4537C/979	1	4 6 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00	-	0	1.000 1.000 1.000																		
Habitat Mea	ıns		0.00	0.00		0.00	0.00		0											_			Power	-50 9 -		P-va	16	
Fisher's Stouffer'		Power Power			Power Power			P-va P-va	lue lue	0.655 0.500	Power Power			Power- Power-			P-val P-val			Power Power			Power			P-va		
19C/19 1642C/833 4537C/979	2	2 2 6	0.00 0.00 0.00	0.00 0.00 0.00	2	0.00 0.00 0.00	0.00 0.00	-	0	1.000 1.000 1.000																		
Habitat Mea	ns		0.00	0.00		0.00	0.00		0														_	- 0.0		D 110	1	
Fisher's Stouffer'		Power Power			Power Power			P-va P-va	lue lue	0.655 0.500	Power Power			Power-			P-val			Power			Power Power			P-va P-va		
19C/19 1642C/833 4537C/979	3	0 4 3	0.00 0.00	0.00	2	0.00 0.00 0.00	0.00		0	1.000																		
Habitat Mea	ans		0.00	0.00		0.00	0.00)	o															-04		P.va	Sup	
Fisher's		Power Power				r-50% r-50%		P-va 2-ya	lue lue	0.597 0.500	Power Power			Power-			P-va. P-va			Power Power			Power Power			P-va		

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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-5.372. 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; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P probability value; dashes = insufficient data.

						. 4								Mud									Sand				
sice Pair	Mvd	N	С	SE	N	0	ge	ĊV	D P	N N	С	SE	N	0	SE	ÇV D	,	P	N	С	SE	N	٥	şe	ĊV	D	P
19C/19 1642C/833 4537C/979	1	4 6 5	85.63 83.33 76.00	8.32 16.67 17.99	4	88.00 55.63 100.00	12.00 21.17 0.00	-		6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- 0) 1	.000	4 6 5	0.00 0.00 0.00	0.00	4 5	0.00 0.00 0.00	0.00	-	0	1.000 1.000 1.000
Habitat Mea	ins		81.63	14.33		81.20	11.07		-		0.00	0.00		0.00	0.00	0)			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	5	Power	0.147			r-50% r-50%	0.536							2:-50 % 2:-50 %		-value			Power Power				r-50% r-50%				0.655 0.500
19C/19 1642C/833 4537C/979	2	2 2 6	55.00 28.75 31.67	45.00 28.75 12.28	2	59.50 68.75 98.50	17.70 18.75 1.50	-		9 2	0.00 0.00 0.00	0.00 0.00 0.00	2	0.00 0.00 0.00	0.00 0.00 0.00	- c) 1	.000	2 2 6	0.00 0.00 0.00	0.00 0.00 0.00	2	0.00 0.00 0.00	0.00 0.00	-	0	1.000 1.000 1.000
Habitat Mea	ins		38.50	28.70		75.60	12.67		-		0.00	0.00		0.00	0.00	c)			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	s	Power				r-50% r-50%			e 0.00					00-50% 00-50%		?-value ?-value		0.655 0.500	Power Power				r-50% r-50%				0.655
19C/19 1642C/833 4537C/979	3 3 3	0 4 3	18.12 54.17	6.72 18.84	2	19.37 41.25 34.50	15.49 41.25 14.67	-	- 0.66 + 0.39	7 4	0.00	0.00	2	0.00 0.00 0.00	0.00 0.00	- c		.000	0 4 3	0.00	0.00		0.00 0.00 0.00	0.00 0.00 0.00) –		1.000
Habitat Mea	ans		36.15	12.75		31.73	23.83		+		0.00	0.00		0.00	0.00	<	0			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer'	' B	Power Power				r-50% r-50%	0.205							er-50% er-50%		P-value P-value			Power Power				r-50% r-50%				0.597 0.500

 κ At least ore site pair p value < 0.100 in opposite direction of overall tests. y Direction of difference between babitat means is different than direction of overal, teats. z Chiy own site pair.

Table C-5.372. Page 1. December 15, 1994

					Shell	Fragment	:в							,	Water							Zo	stera,	/Phyllosp	adix			
ite Pair	Mvč	ı N	С	SE	N	0	SE	cv	D	P	N	С	SE	N	0	SE	CV	Þ	P	N	С	SE	N	0	SB	CV	ם	P
.9C/19 .642C/833 .537C/979	1	4 6 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00		0	1.000 1.000 1.000	4 6 5	0.00 0.00 0.00	0.00 0.00 0.00	5 4 5	0.00 0.00 0.00	0.00 0.00 0.00	-		1.000 1.000 1.000	4 6 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	O	1.000
abitat Mea	ins		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	's	Power Power			Power Power					0.655 0.500	Power Power				r-50% r-50%		-val		0.655	Power Power				r-50% r-50%				0.655 0.500
9C/19 642C/833 537C/979	2	2 2 6	0.00 0.00 0.00	0.00 0.00 0.00	2	0.00 0.00 0.00	0.00	-	Q	1.000 1.000 1.000	2 2 6	0.00 0.00 0.00	0.00 0.00 0.00	5 2 5	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	2 2 6	0.00 0.00 0.00	0.00 0.00	2	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000
abitat Mea	ans		0.00	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	
Fisher's Stouffer'		Power Power			Power					0.655	Power Power				r-50% r-50%		P-val P-val		0.655 0.500	Power Power				r-50% r-50%				0.655
9C/19 642C/833 537C/979		0 4 3	0.00	0.00	2	0.00 0.00 0.00	0.00	-		1.000	0 4 3	0.00	0.00		0.00 0.00 0.00	0.00 0.00 0.00	-		1.000 1.000	0 4 3	0.00 0.00	0.00	2	0.00 0.00 0.00	0.00	-		1.000
abitat Mea	ans		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'		Power Power			Power Power					0.597 0.500	Power Power				r-50% r-50%		P-val P-val		0.597 0.500	Power Power				r-50% r-50%				0.597 0.500

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

Table C-5.372. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Exposed Rocky, July 1991. Overstory removed August 1990. (Continued.)

					San	d and Mud								Total	l Substr	ate												
Site Pair	Mvđ	N	С	SE	N	٥	SE	CV	D	P	N	С	SE	N	0	SE	CV	D	P	N	C	SE	Ŋ	o	SE	¢	ם עי	P
19C/19 1642C/833 4537C/979	1	4 6 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	4 6 5	85.63 83.33 76.00	8.32 16.67 17.99	4	88.00 55.63 100.00	12.00 21.17 0.00	-	+	0.682 0.296 0.170									
Habitat Mea	ins		0.00	0.00		0.00	0.00		0			81.63	14.33		81.20	11.07		-										
Fisher's Stouffer'		Power Power				r-50% r-50%				0.655 0.500	Power Power				r-50% r-50%	0.589 0.667			0.285 y 0.225	Power Power			Power Power			P-4		
19C/19 1642C/833 4537C/979	2	2 2 6	0.00 0.00 0.00	0.00 0.00 0.00	2	0.00 0.00 0.00	0.00	-	0	1.000 1.000 1.000	2 2 6	55.00 28.75 31.67	45.00 28.75 12.28	2	59.50 68.75 98.50	17.70 18.75 1.50	-	-	0.862 0.359 0.001									
Habitat Mea	ins		0.00	0.00		0.00	0.00		0			38.50	28.70		75.60	12.67		-										
Fisher's Stouffer'		Power Power				r-50% r-50%				0.655 0.500	Power Power				r-50% r-50%				0.001	Power Power			Power Power			P-v P-v		
19C/19 1642C/833 4537C/979	3	0 4 3	0.00	0.00 0.00	2	0.00 0.00 0.00	0.00 0.00	-	0	1.000	0 4 3	18.12 54.17	6.72 18.84	2	19.37 41.25 34.50	15.49 41.25 14.67	-		0.667 0.394									
Habitat Mea	ans		0.00	0.00		0.00	0.00		0			36.15	12.75		31.73	23.83		+										
Fisher's Stouffer'		Power Power				r-50% r-50%				0.597 0.500	Power Power	0.174 0.176			r-50% r-50%	0.185 0.042			0.398	Power Power			Power Power			P-v P-v		

Table C-5.372. Fage 3. December 15, 1994

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

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.

				Algai	l Dive	reity I	ndex (a)					Alga	1 Tax	xa Richn	ess (b)							To	tal Alga	е			
Site Pair	Mvd	N	c	SE	N	0	SE	c	ם ע	P	N	С	SE	N	0	SE	CA	D	P	N	С	SE	N	0	SB	CV	, D	P
14.1C/14.1 14.2C/14.2 62762C/50983	1 1 3 1	6 6 6	0.12 0.12 0.17	0.05 0.07 0.09	4	0.24 0.15 0.00	0.0 0.0 0.0	ġ.	 	0.242 0.810 0.120	6 6 6	1.67 2.00 1.83	0.21 0.52 0.48	4	2.50 2.00 0.83	0.56 0.91 0.17			0.196 1.000 0.076	6 6 6	35.00 69.17 41.25	8.66 12.36 7.58	4	47,92 38.75 48.33	13.19 18.04 17.15	-		0.496 0.142 0.743
Habitat Mean	n s		0.14	0.07		0.13	0.0	6	-			1,83	0.40		1.78	0.55		+			48.50	9.57		45.00	16.13			
Fisher's Stouffer's		Power Power	0.093 0.015			c-50% c-50%	0.593 0.686			0.406 y 0.846	Power Power	0.202			r-50% r-50%	0.974 0.985				Power Power	0.02			er-50% er-50%	0.982 0.988			
14.1C/14.1 14.2C/14.2 62762C/5098	2 2 3 2	5	0.48 0.20 0.31	0.10 0.12 0.11	4	0.43 0.16 0.00	0.0 0.0	8 -	- +	0.723 0.828 0.044	6 5 5	4.33 2.60 3.00	0.88 0.98 1.00	4	3.67 2.25 0.83	0.92 0.63 0.17	-			6 5 5	60.42 94.00 81.00	15.42 4.00 6.30	4	57.87 51.88 53.75	15.30 11.20 20.27	-		0.955 0.006 0.414
Habitat Mean	ns		0.33	0.11		0.20	0.0	5				3.31	0.95		2.25	0.57		-			78.47	8.57		54.53	15.60		+	
Fisher's Stouffer's		Power				r-50% r-50%				0.075 0.022	Power Power	0.682			r-50% r-50%		P-val P-val		0.112	Power Power				er-50% er-50%				0.012 0.060
14.1C/14.1 14.2C/14.2 62762C/50983	3 3 3 3	5 2 5	0.66 0.52 0.47	0.03 0.25 0.15	4	0.49 0.62 0.22	0.0 0.1 0.1	6 .		0.037 0.760 0.248	5 2 5	6.60 5.00 5.00	0.40 2.00 1.73	4	4.80 7.50 2.75	0.73 2.10 0.75	-	-	0.064 0.501 0.313	5 2 5	77.00 92.50 45.50	9.30 7.50 13.88	4	98.50 76.88 69.38	1.50 9.43 16.28	-	+	0.046 0.240 0.231
Habitat Mear	ດສ		0.55	0.14		0.44	0.1	1	+			5.53	1.38		5.02	1.20		4			71.67	10.23		81.60	9.07		-	
Fisher's Stouffer's		Power Power				r-50% r-50%				0.041 0.059	Power Power	0.144			er-50% er-50%				0.083 0.104	Power Power				er-50% er-50%				0.059 0.091

(a) Modified Shannon Index.(b) Taxa richnoss 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 different between tabilst means is different than direction of overall tests. Only one site pair.

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				T	otal I	inverteb:	rates								Rock		_						Pere	nnials (₽)			
Site Pair	Mvd	N	С	SE	N	0	SE	cv	D	P	N	С	SE	N	0	SE	CV :	D	P	N	С	SE	N	0	SE	(CV D	P
14.1C/14.1 14.2C/14.2 62762C/50983	1 1 3 1	6	3.33 15.00 42.50	1.54 7.80 11.58	4	11.67 28.13 9.58	4.5 21.3 3.9	0 -	-		6 6 6	60.83 15.83 16.25	8.48 9.95 4.95	4	40.00 33.13 42.08	11.51 18.52 15.59	-	-	0.171 0.409 0.337	6 6 6	35.00 18.33 35.83	8.66 11.32 7.90	4	35.00 1.88 48.33	13.4 1.8 17.1	8	- 0 	0.743 0.232 0.587
Habitat Mean	15		20.27	6.97		16.47	9.9	3	-			30.97	7.83		38.40	15.20		-			29.70	9.30		28.40	10.8	7	+	
Fisher's Stouffer's		ower ower	0.124			r-50% r-50%	0.444 0.544			0.363xy 0.911	Power Power	0.238 0.162			r-50% r-50%	0.590 0.644				Power Power	0.18 0.19			r-50% r-50%	0.555 0.631			
14.1C/14.1 14.2C/14.2 62762C/50983	2 2 3 2	6 5 5	6.67 5.00 7.50	3.96 3.16 6.89	4	9.58 20.00 19.17	4.5 10.6 10.8	6 -	-	0.819 0.192 0.383	6 5 5	32.50 1.00 11.50	15.19 1.00 4.65	4	31.72 27.50 14.17	11.47 16.14 8.72		-	0.944 0.075 0.794	6 5 5	47.08 88.50 42,50	12.87 7.14 14.85	4	44.82 40.63 53.75	12.1 14.8 20.2	7	- F	0.979 0.022 0.589
Habitat Mean	າຣ		6.40	4.70)	16.27	8.7	3	-			15.00	6.97		24.47	12.10		-			59.37	11.63		46.40	15.7	7	-	
Fisher's Stouffer's		ower	0.317 0.390			r-50% r-50%	0.274 0.432			0.134 0.108	Power Power				r-50% r-50%	0.418 0.495			0.138 0.234	Power Power				r-50% r-50%	0.932			0.084
14.1C/14.1 14.2C/14.2 62762C/50983	3 3 3 3	2	6.50 0.00 20.00	4,72 0.00 5.86	4	0.00 15.63 20.00	0.0 11.8 11.7	3 -	-	0.132 0.222 0.604	5 2 5	16.00 7.50 34.50	6.87 7.50 14.15	4	1.50 6.25 10.63	1.50 2.39 5.04	-	+	0.056 0.918 0.163	5 2 5	40.00 31.25 15.50	13.94 21.25 5.83	4	51.50 38.75 53.13	17.4 11.2 6.9	0		0.561 0.746 0.010
Habitat Mean	ıs		8.83	3.53		11.87	7.8	3	-			19.33	9.53		6.13	2.97		+			28.93	13.67		47.80	11.9	0	-	
Fisher's Stouffer's		ower ower	0.111			r-50% r-50%				0.381 y 0.653	Power Power				r-50% r-50%		P-valu P-valu			Power Power				r-50% r-50%				0.020

x At least one site pair p value < 0.108 in opposite direction of overall tests.
y Direction of difference between habital means is different than direction of overal; tests.
z Only one site pair.

Table C-5.373. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Sheltered Rocky. May 1991. Overstory removed June 1990. (Continued.)

				Annu	als (A)							Ephem	erals (A	E)										
nice naim Me	.4 17	- 1	00	M	n	QP	ריש ח	P	N	r	ЯŘ	N	Ω	SE	CV D	P	N	C	SE	N	Q	ŞE	ÇV D	P
14.2C/14.2 _ 62762C/50983 _		50.83 5.42	17.33 5.42		36.88	17.39			6 6	0.00 2.92 0.97	0.00 2.92 0.97		21.88 0.00 7.87	14.01 0.00 5.23		0.124								
Habitat Means Fisher's Stouffer's	Power		7.57	Power-		8.07 0.035 0.055		0.426×	Power Power	0.058 0.049	0.97		r-50%	F	-value	0.154 0.553	Power Power			Power Power			P-value P-value	
	6 5 5	13.33 5.50 38.50	8.91 3.39 17.26	4	13.05 11.25 0.00	4.61 6.81 0.00		0.767 0.447 0.035	6 5 5	1.25 1.00 13.00	0.85 0.61 5.56	4	2.93 0.00 0.00	2.45 0.00 0.00	- +	0.716 0.178 0.073								
Habitat Means Fisher's Stouffer's	Power Power			Power:				0.105	Power Power	5.10	2.37		0.97 r-50% r-50%			0.055 0.027	Power Power			Power Power			P-value P-value	
	5 3 2 3 5	37.00 61.25 30.00	5.72 28.75 13.99	4	47.00 38.13 16.25	16.68 2.95 9.38	- :	0.787 0.263 0.564	5 2 5	8.50 0.00 6.50	3.50 0.00 4.23	4	35.00 12.50 1.25	12.57 9.19 1.25										
Habitat Means Fisher's	Power			Power		9.70 0.805 0.845	P-value		Power Power	5.00 0.257		Powe:	16.27 r-50% r-50%	7.70 I 0 135 I	-value	0.064 0.514	Power Power			Power Power			P-value P-value	

Table C 5.373. Page 3. December 15, 1994

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

Table C-5.374. Algal Percent Cover. Chlorophyta. Cook Inlet/Renai. 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 Pair Myd N C SE N O SE CV											Morp	holog	içal (Group:	laded Gr	eens					Bla	ded G	reens (A	E) (a)			
Site Pair	Mvd	N	С	SE	N	0	ge		CA D	P	N	С	SB	N	0	SE	ÇV	D	P	N	¢	SE	N	0	SE		CV D	P
14.1C/14.1 14.2C/14.2 62762C/50983	1 1 1	6	0.00 0.00 2.92	0.00 0.00 2.92	4	1.67 20.62 0.00	1.0 14.0 0.0	48	 - +	0.363 0.157 0.363	6 6 6	0.00 0.00 1.67	0.00 0.00 1.67	4	0.00 0.00 0.00	0.00 0.00 0.00	-	Ó	1.000 1.000 0.363	6 6 6	0.00 0.00 1.67	0.00 0.00 1.67	4	0.00 0.00 0.00	0.0	0	- 0	1.000 1.000 0.363
Habitat Mean	.8		0.97	0.97		7.43	5.4	40	-			0.57	0.57		0.00	0.00		-			0.57	0.57		0.00	0.0	0	4	
Fisher's Stouffer's		Power Power	0.018 0.017			r-50% r-50%			value value	0.179 0.567	Power Power				r-50% r-50%				0.403 0.203	Power Power				r-50% r-50%				0.403 0.203
	2 2 2	5	1.25 0.50 22.50	0.85 0.50 18.97	4	2.93 0.00 0.00	0.6	00	- +	01110	6 5 5	1.25 0.00 7.50	0.85 0.00 5.36	4	0.00 0.00 0.00	0.00 0.00	-	0	0.183 1.000 0.197	6 5 5	1.25 0.00 7.50	0.85 0.00 5.36	4	0.00 0.00 0.00	0.00	٥	- 0	0.183 1.000 0.197
Habitat Mean	8		8.10	6.80		0.97	0.8	83	+			2.93	2.10		0.00	0.00		+			2.93	2.10		0.00	0.00	0	1	
Fisher's Stouffer's		Power Power	0.074			r-50% r-50%	0.249 0.455			0.214	Power Power				r-50% r-50%				0.095 0.059	Power Power				r-50% r-50%				0.095 0.059
	3 3 3	2	8.00 0.00 6.50	3.74 0.00 4.23	4	35.00 3.75 0.00	12.5	61	 	0.111 0.071 0.116	5 2 5	6.50 0.00 6.50	3.84 0.00 4.23	4	35.00 2.50 0.00	12.57 1.02 0.00	-	-	0.084 0.066 0.116	5 2 5	6.50 0.00 6.50	3.84 0.00 4.23	4	35.00 2.50 0.00	12.51 1.01 0.00	2		0.084 0.066 0.116
Habitat Mean	s		4.83	2.63		12.93	4.7	73	-			4.33	2.57		12.50	4.53		-			4.33	2.67		12.50	4.5	3	-	
Fisher's Stouffer's		Power Power	0.098			r-50% r-50%	0.159			0.050 0.680	Power Power	0.104			r-50% r-50%				0.039 0.663	Power Power	0.102			r-50% r-50%	0.112			0.039 0.663

(a) Kortmannia, Monoercera, Iliva and Ulvaria, x At least one site path p-value < 0.100 in upposite direction of overall tests, y Direction of difference between habitat pears is different than direction of overall tests, z Only one site pair.

Morphological Group: Fine Filamentous Greens Acrosiphonia sp. (A) Chaetomorpha/Rhizoclonium (A) (a) Site Pair Mvd N С 0 SE CV D c SE ٥ CV D P С 0 SE CV D P 14.10/14.1 0.00 0.00 б 1.67 1.67 0.363 0.00 0.00 6 0.00 0.00 - 0 1 000 $n = n\alpha$ 0.00 0.00 1.000 0 14.2C/14.2 0.00 0.00 20.62 14.48 0.157 0.00 0.00 4 6 0.00 4 0.00 - 0 1,000 0.00 0.00 0.00 0.00 - o 1.000 62762C/50983 1 6 1.25 1.25 - + 0.363 6 0.00 0.00 0.00 0.00 0.00 0.00 - 0 1.000 0.00 0.00 6 0.00 0.00 - o 1.000 Habitat Means 0.43 0.43 7.43 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0.00 Fisher's 0.019 Power-50% --- 2-value 0.179 Power Power-50% --- P-value 0.655 Power Power-50% --- P-value 0.655 Power Stouffer's Power 0.018 Power-50% --- P-value 0.567 Power-50% --- P-value 0.500 Power Power-50% --- P-value 0.500 0.00 14.1C/14.1 2 6 0.00 б 2.50 2.50 0.363 0.00 0.00 0.00 0.00 0.00 0.00 - 0 1.000 0.00 0.00 - 0 1.000 14.2C/14.2 5 0.00 0.00 4 0.00 0.00 - o 1.000 5 0.00 0.00 0.00 0.00 - o 1.000 0.00 0.00 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 0.00 0.00 0.374 0.00 0.00 - 0 1.000 0.00 0.00 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 0.000 Power-50% 0.002 P-value 0.450 Fisher's Power Power ---Power-50% --- P-value 0.409 Power Power-50% --- 2-value 0.655 Stouffer's 0.000 Power-50% 0.000 P-value 0.229 Power Power Power-50% --- P-value 0.208 Power ---Power-50% --- P-value 0.500 14.1C/14.1 1.50 1.50 3 0.00 0.00 - 0.374 0.00 0.00 5 5 0.00 0.00 - o 1.000 0.00 5 0.00 0.00 0.00 - o 1.000 14.2C/14.2 0.00 0.00 1.25 1.25 0.391 0.00 0.00 1.25 1.25 0.00 - - 0.391 0.00 4 0.00 0.00 ~ o 1.000 62762C/50983 3 0.00 - o 1.000 5 0.00 0.00 0.00 0.00 0.00 0.00 0.00 - o 1.000 0.00 4 0.00 0.00 0.00 - 0 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 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-50% --- P-value 0.496 Power-50% Power Power --- P-value 0.403 --- P-value 0.500 Power Power-50%

(a) Genera not separated.
x At least one site payr p-value < 0.180 in opposite direction of overall tests.</p>
y Direction of difference between habitat means to different than direction of overall tests.
z Only one site pair.

Table C 5.374, Page 1, December 15, 1994

Table C-5.374. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Sheltered Rocky. May 1991. Overstory removed June 1990. (Continued.)

			C:	adoph	ora sp. ((AE)						σ	loth	rix sp. (?	LE)						υ	rosp	ora sp. (AE)				
Site Pair My	vd N	С	SE	N	0	SE	ÇV	Þ	P	N	С	SE	N	0	SE	ev	ם	P	N	С	SE	Ŋ	0	SE		CV D		P
14.1C/14.1 1 14.2C/14.2 1 62762C/50983 1	1 6 1 6 1 6	0.00 0.00 1.25	0.00 0.00 1.25	4	1,67 0.00 0.00	1.67 0.00 0.00			0.363 1.000 0.363	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 20.62 0.00	0.00 14.48 0.00	8	- o - o	0.	.157
Habitat Means		0.43	0.43		0.57	0.57		-			0.00	0.00		0.00	0.00		0			0.00	0.00		6.87	4.83	3	-		
Fisher's Stouffer's	Power Power				r-50% r-50%				0.519 0.717	Power Power				er-50% er-50%		P-valu P-valu		0.655 0.500	Power Power	0.00			er-50% er-50%			value value		
14.1C/14.1 2 14.2C/14.2 2 62762C/50983 2	2 6 2 5 2 5	0.00 0.00 1.00	0.00 0.00 1.00	4	2.50 0.00 0.00	2.50 0.00 0.00			0.363 1.000 0.374	6 5 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	o	1.000 1.000 1.000	6 5 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00	0	- 0 - 0	1.	.000 .000 .000
Habitat Means		0.33	0.33		0.83	0.83		-			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	0	0		
Fisher's Stouffer's	Power Power				r-50% r-50%				0.517 0.710	Power Power				er-50% er-50%		P-valu P-valu		0.655 0.500	Power Power				±-50% ±-50%			value value		
14.1C/14.1 14.2C/14.2 62762C/50983	3 5 3 2 3 5	1.50 0.00 0.00	1.50 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00		0	0.374 1.000 1.000	5 2 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	o	1.000 1.000 1.000	5 2 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00	0	- 0	1	.000 .000 .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	0	0		
Fisher's Stouffer's	Power Power				r-50% r-50%				0.409 0.400	Power Power				er-50% er-50%		P-valu P-valu		0.655 0.500	Power Power				2-50% 2-50%			value value		

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

	Mo	rphologic	al Gr	oup:	Tubular	and Sac	cate	Gre	ens		B1.	idingi	a/Ent	teromorphe	(AE) (a)											
Site Pair Mvd	q N	С	SE	N	0	SE	cv	D	P	N	С	SE	N	0	Se	CV 1	b	P	N	С	SE	N	0	SE	ÇV	D	Þ
14.1C/14.1 1 14.2C/14.2 1 62762C/50983 1	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- (0	1,000 1.000 1.000									
Habitat Means		0.00	0.00		0.00	0.00	ı	o			0.00	0.00		0.00	0.00		О										
Fisher's Stouffer's	Power Power				r-50% r-50%				0.655 0.500	Power Power				r-50% r-50%		P-valu P-valu		0.655 0.500	Power Power			Power Power			P-val P-val		
	6 5 5	0.00 0.50 0.00	0.00 0.50 0.00	4	0.43 0.00 0.00	0.43 0.00 0.00	_	+	0.363 0.374 1.000	6 5 5	0.00 0.50 0.00	0.00 0.50 0.00	4	0.43 0.00 0.00	0.43 0.00 0.00		+	0.363 0.374 1.000									
Habitat Means		0.17	0.17		0.13	0.13		-			0.17	0.17		0.13	0.13		-										
Fisher's Stouffer's	Power Power				r-50% r-50%				0.517 у 0.498	Power Power				r-50% r-50%				0.517 у 0.498	Power Power			Power Power			P-val P-val		
	5 2 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00	-	0	1.000 1.000 1.000	5 2 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- 6	0	1.000 1.000 1.000									
Habitat Means		0.00	0.00		0.00	0.00	+	0			0.00	0.00		0.00	0.00		О										
Fisher's Stouffer's	Power Power				r-50% r-50%				0.655	Power Power				r-50% r-50%		P-value P-value		0.655 0.500	Power Power			Power Power			P-val P-val		

⁽a) Genera not separated.

Table C 5.374. Page 3. December 15, 1994

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

Table C-5.375. Algal Percent Cover. Phacophyta. 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; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; P = probability value; dashes = insufficient data.

											Morr	hologi	cal (Froup: 1	Bladed Br	OWII	18					Alar	іа вр. (А)				
					N	Phaeophy	ge ge	CA	D	P	N	c	SE	N	0	SE	Ç	V D	P	N	С	SE	И	0	SE	CV	Ð	P
Site Pair	Mvd	N	¢	SE						- 160		30.83	7.52	6	25,42	10.83		- +	0.460	6	0.00	0.00	б	0.00	0.00	-		1.000
14.1C/14.1 14.2C/14.2	1	6	9.58	7.52 9.58 8.46	4	25.42 0.00 48.33	10.83 0.00 17.15	-	+	0.460 0.363 0.457	6	9.58 31.25	9.58	4	0.00	0.00			0.363	6 6	0.00	0.00		0.00	0.00	-		1.000
62762C/50983 Habitat Mean		6	31.25 23.90	8.53	o	24.57	9.33		+			23.90	8.53		24.57	9.33		+			0.00	0.00		0.00	0.00		0	
Fisher's		Power	0.056			-50% -50%	0.768	P-val	ue	0.333 y 0.583	Power	0.058 0.061			er-50% er-50%	0.775 0.813	P-v	alue alue	0.333	y Power Power				r-50% r-50%		P-va	lue	0.655
Stouffer's 14.1C/14.1 14.2C/14.2 62762C/5098	2	5	15.42 71.00 47.00	8.15 18.38 16.11	6 4	20.97 28.13 53.75	13.26 16.69 20.27	-	-+	0.869 0.091 0.684	6 5 5	14.58 70.50 42.50	7.94 18.78 14.85	4	20.97 28.13 53.75	13.26 16.69 20.27			0.835 0.099 0.589	6 5 5	0.00 0.00 0.00	0.00 0.00 0.00	4 6	0.00 0.00 0.00	0.00	-	0	1.000 1.000 1.000
Habitat Mea		_	44.47	14.23		34.30	16.77		-			42.53	13.87		34.30	16.77		-			0.00	0.00		0.00	0.00		٥	0.655
Fisher's		Power				c-50%	0.444	P-val	ue	0.689xy 0.525	Power	0.006			er-50% er-50%	0.448 0.537	P-v P-v	/alue	0.637	ry Powe:				r-50% r-50%				0.500
Stouffer' 14.1C/14.1 14.2C/14.2	3	Fower 5 2	32.00 60.00	13.02 20.00 6.77	5 4	10.00 30.00 53.13	4.94 12.42 8.00	<u> </u>	+	0.111	5 2 5	24.00 60.00 17.50	12.93 20.00 6.32	4	10.00 20.00 51.88	4.94 13.69 7.02)		0.422 0.170 0.011	2	0.00 45.00 7.00	0.00 35.00 3.39	4	4.50 1.25 0.00	3.39 0.72 0.00	-	1	0.205 0.064 0.084
62762C/5098 Habitat Mea		5	18.00 36.67	13.27		31.03	8.43					33.83	13.07		27.30	8.53	3	-			17.33	12.80		1.93	1.37			
Fisher's Stouffer'		Power Power	0.328	ı	Power	r-50% r-50%	0.60B 0.647	P-val P-val	iue lue	0.125× 0.929	Power Power				er-50% er-50%			value value	0.234					er-50% er-50%				0.037

Only one site pal				Total	Fucu	s gardn	eri (P)					Adı	ult Fuc	us g	ardneri	(P) (> 2	2cm))			Juvė	aile Fu	icas d	ardneri	(P) (<=	2cm)	
ite Pair M	rd N		с	SE	N	0	SE	cv	D	P	N	c	gE	N	0	SE	(CV D	P	N	С	ŝe	n	0	SE	CV D	P
1.1C/14.1 1.2C/14.2	1 6 1 6	•	30.83 9.58	7.52 9.58 8.46	6 4 6	25.42 0.00 48.33	10.8 0.0 17.1	0 -	+	0.460 0.363 0.457	6 6 6	24.58 7.50 29.17	7.34 7.50 8.56	4	23.75 0.00 43.33	9.89 0.00 18.83	0	- 4	0.707 0.363 0.610	6 6 6	6.25 2.08 2.08	3.40 2.08 1.19	4	1.67 0.00 5.00	1.05 0.00 3.42	- +	0.32 0.36 0.75
762C/50983 : bitat Means	1 6		31.25 23.90	8.53	ь	24.57	9.3		+	0	_	20.43	7.80		22.37	9,5	7	+			3.50	2.23		2.23	1.50		
Fisher's Stouffer's		wer	0.056		Power		0.751	P-va P-va		0.333 y 0.583	Power Power	0.059 0.087			r-50% r-50%	0.595 0.652			0.399 _Y 0.540	Power Power	0.134 0.120		Power	-50%	0.516	P-value P-value	0.40
.1¢/14.1	2 6	5	14.58 70.50	7.94 18.78 14.85	4	20.97 28.13 53.75	13.2 16.6 20.2	9 -	+	0.835 0.099 0.589	6 5 5	14.58 70.50 41.00	7.94 18.78 14.61	4 6	20.97 27.50 53.75	13.2 17.0 20.2	7		0.835 0.091 0.561	6 5 5	0.00 0.00 1.50 0.50	0.00 0.00 1.50	4	0.00 0.63 0.00	0.00 0.63 0.00		0.00
abitat Means Fisher's	Po	ower	42.53 0.007	13.87	Power	34.30	16.7 0.462	7 P-va		0.637×y	Power	42.03 0.011	13.77	Powe	34.10 r-50%	16.8	P-		0.625×y 0.457	Power Power	0.30		Power	c-50%		P-value P-value	
Stouffer's 4.1C/14.1 4.2C/14.2		ower 5	0.007 24.00 15.00	12.93 15.00	Power 5 4	5.50 18.75	0.529 4.9 14.0	1 -		0.865	Power 5 2	0.014 24.00 15.00 10.00	12.93 15.00 5.24	5 4	5.50 16.25 51.88	0.608 4.9 14.6 7.0	10	- + 	0.199 0.975 0.005	5 2 5	0.00 0.00 0.50	0.00 0.00 0.50	5 4	0.00 2.50 0.00	0.00 1.77 0.00	7	0.20
2762C/50983 abitat Means			10.50 16.50	5.02		51.88 25.40	7.0 8.6		-	0.004	Þ	16.33	11.03		24.57	8.8		-			0.17	0.17	_	0.83	0.60		
Fisher's Stouffer's	Po	ower				-50% -50%				0.027	Power Power				r-50% r-50%			value value	0.035 0.014	Power Power	0.008			r-50% r-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-5.375. Algal Percent Cover. Phaeophyta. Cook Inlet/Renai. Sheltered Rocky. May 1991. Overstory removed June 1990. (Continued.)

				Fu	cus St	ipes (P)	(a)					P	etalor	ia/P	unctaria	(AE) (b))			Mo	rpholog	ical Gr	oup:	Coarse 1	ilament	ous	Brow	mg
Site Pair	Mvđ	N	c	SE	N	0	SE	cv	D	P	N	с	SE	N	0	SE	CV	ם	P	N	С	SE	N	٥	SE	C/	7 D	P
14.1C/14.1 14.2C/14.2 62762C/50983	1 1 1	5	0.83 0.00 0.00	0.83 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	0.363 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	o	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	- o	1.000 1.000 1.000
Habitat Mean	ŝ		0.27	0.27		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	;	Power Power			Power					0.403 0.398	Power Power				er-50% er-50%		P- va l P- v al		0.655 0.500	Power Power				r-50% r-50%				0.655 0.500
14.1C/14.1 14.2C/14.2 62762C/50983	2		0.42 0.00 0.00	0.42 0.00 0.00	4	0.83 0.63 0.00	0.83 0.63 0.00	-	-	0.814 0.391 1.000	6 5 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000	6 5 5	0.83 0.00 0.00	0.83 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	- 0	0.363 1.000 1.000
Habitat Mean	18		0.13	0.13		0.47	0.47		-			0.00	0.00		0.00	0.00		0			0.27	0.27		0.00	0.00		+	
Fisher's Stouffer's	3	Power Power			Power Power					0.375 0.378	Power Power				er-50% er-50%		P-val P-val		0.655 0.500	Power Power				r-50% r-50%				0.403
14.1C/14.1 14.2C/14.2 62762C/50983	3 3	5 2 5	0.50 0.00 0.00	0.50 0.00 0.00	4	0.00 1.25 0.00	0.00 1.25 0.00	-	-	0.374 0.391 1.000	5 2 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- - -		1.000 1.000 1.000	5 2 5	7.50 0.00 0.50	1.12 0.00 0.50	4	0.00 0.00 0.00	0.00 0.00 0.00		- 0	0.000 1.000 0.374
Habitat Mean	15		0.17	0.17		0.43	0.43		-			0.00	0.00		0.00	0.00		C			2.67	0.53		0.00	0.00		÷	
Fisher's Stouffer's		Power Power			Power Power					0.522 y 0.496	Power Power				er-50% er-50%		P-val P-val		0.655 0.500	Power Power				r-50% r-50%				0.001 0.030

(a) Dead Fucue plants or stipes without biades.(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 habitst means is different than direction of overall tests. Z Only one site pair.

Tuble C-5.375. Rege 3. December 15, 1994

			Ana	lipus	japonicu	9 (P)					My	elophy	cus/	Scytosipho	n (A) e	(a)			1	torpholog	gical G	Foup:	Fine 1	Filament	OUS	Brown	
Site Pair Mv	d N	C	55	N	U	SE	CV	D	P	N	c	SE	N	0	gr	CV	D	P	N	С	SE	N	0	SE		CV D	P
14.1C/14.1 1 14.2C/14.2 1 62762C/50983 1	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.0	0 -	0	1.000 1.000 1.000	6 6 6	0,00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00		o	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	0	- 0	1,000 1,000 1,000
Habitat Means		0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00		O			0.00	0.00		0.00	0.00	0	0	
Fisher's Stouffer's	Power Power				r-50% r-50%		P-va P-va		0.655 0.500	Power Power				er-50% er-50%		P-va P-va		0.655 0.500	Power Power				r-50% r-50%			value value	
14.1C/14.1 2 14.2C/14.2 2 62762C/50983 2	6 5 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.0 0.0 0.0	0 -		1.000 1.000 1.000	6 5 5	0.83 0.00 0.00	0.83 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00	-	0	0.363 1.000 1.000	6 5 5	0.00 0.50 4.50	0.00 0.50 3.91	4	0.00 0.00 0.00	0.00 0.00 0.00	Ō	- 1	1.000 0.374 0,240
Habitat Means		0.00	0.00		0.00	0.0	0	0			0.27	0.27		0.00	0.00		+			1.67	1.47		0.00	0.00	0	+	
Fisher's Stouffer's	Power Power				r-50% r-50%		P-va P-va		0.655 0.500	Power Power				er-50% er-50%		P-va P-va			Power Power	0.011			r-50% r-50%			value value	
	5 2 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.0 0.0 0.0	0 -	o	1.000 1.000 1.000	5 2 5	7.50 0.00 0.50	1.12 0.00 0.50	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	0.000 1.000 0.374	5 2 5	0.50 0.00 0.00	0.50 0.00 0.00	4	0.00 10.00 1.25	0.00 10.00 1.25	0		0.374 0.391 0.391
Habitat Means		0.00	0.00		0.00	0.0	0	0			2.67	0.53		0.00	0.00		٠			0.17	0.17		3.77	3,77	7	=	
Fisher's Stouffer's	Power Power				r-50% r-50%		P-va P-va		0.655 0.500	Power Power				er-50% er-50%		P-va P-va			Power Power				r-50% r-50%			value value	

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

Table C-5.375. Algal Percent Cover. Phaeophyta. Cook Inlet/Renai. Sheltered Rocky. May 1991. Overstory removed June 1990. (Continued.)

			Fir	e Fila	amento	us Brow	ns (AE)	(b)				Morph	ologi	cal G	roup: Sa	ccate B	cowns				1	Leathe	sia/C	olpomenia	(A) (a)			
Site Pair	Mvd	1 N	c	SE	N	٥	SE	CV	D	P	N	С	SE	N	0	SE	CV	ם	P	N	С	SE	N	٥	SE		CV I		P
14.1C/14.1 14.2C/14.2 62762C/50983	1	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.0 0.0 0.0	0 -	0	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.0 0.0 0.0	0	- 0 - 0	1.	000 000 000
Habitat Mear	ns		0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.0	0	o		
Fisher's Stouffer's		Power Power			Power Power					0.655 0.500	Power Power				r-50% r-50%		P-valu P-valu		0.655 0.500	Power Power				r-50% r-50%			value value		655 500
14.1C/14.1 14.2C/14.2 62762C/50983	2	6 5 5	0.00 0.50 4.50	0.00 0.50 3.91	4	0.00 0.00 0.00	0.0 0.0	0 -	+	1.000 0.374 0.240	6 5 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 5 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.0 0.0 0.0	0	- c	1.	.000 .000 .000
Habitat Mear	ns		1.67	1.47		0.00	0.0	0	+			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.0	0	c		
Fisher's Stouffer's		Power Power	0.008		Power		0.012	P-va P-va		0.175 0.092	Power Power				r-50% r-50%		P-valı P-valı		0.655 0.500	Power Power				r-50% r-50%			value value		
14.1C/14.1 14.2C/14.2 62762C/50983	3	5 2 5	0.50 0.00 0.00	0.50 0.00 0.00	4	0.00 10.00 1.25	0.0 10.0 1.2	0 -	+	0.374 0.391 0.391	5 2 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	5 2 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.0 0.0 0.0	0	- c	1.	.000 .000 .000
Habitat Mean	ns		0.17	0.17		3.77	3.7	77	-			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.0	0	C		
Fisher's Stouffer's		Power Power			Power Power			P-va P-va		0.326	Power Power				r-50% r-50%		P-valv P-valv		0.655 0.500	Power Power				r-50% r-50%			value value		

(b) Elachista, Ectocarpus and Pilayella.

(a) Genera not separated. y At least one site pair p-value < 0.120 in opposite direction of overall tests. y Direction of difference between habitat means is different than direction of overall tests. 2 Only one site pair.

Table C-5.375. Page 5. December 15, 1994

,				Sore	nthe	ra ulvoide	a (A)					Morph	ologi	al G	roup: Cr	ustose 9	rowns					Ralfs.	ia/Pe	troderma	(P) (a)			
Site Pair M	avd N		c	SE	N	0	SE	cv	D	P	N	С	SE	N	0	SE	çv	D	P	N	С	SE	N	0	SE		cv)	P
14.1C/14.1 14.2C/14.2 62762C/50983	1 6		0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.0 0.0	Ó -	0	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.0 0.0 0.0	0		1	.000 .000 .000
Habitat Means	3		0.00	0.00		0.00	0.0	0	٥			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.0	0)	
Fisher's Stouffer's		wer				er-50% er-50%				0.655 0.500	Power Power				er-50% er-50%		P-valu P-valu		0.655 0.500	Power Power				r-50% r-50%			-valu -valu		
	2 6 2 5 2 5		0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.0	0 -	0	1,000 1,000 1,000	6 5 5	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	o	1.000 1.000 1.000	6 5 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.0 0.0 0.0	0	-) 1	.000
Habitat Means	3		0.00	0.00		0.00	0.0	0	o			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.0	0		>	
Fisher's Stouffer's		wer				er-50% er-50%				0.655 0.500	Power Power				er-50% er-50%		P-valu P-valu		0.655 0.500	Power Power				r-50% r-50%			-valu -valu		
	3 5 3 2 3 5		0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.0 0.0	0 -	0	1.000 1.000 1.000	5 2 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00		o	1.000 1.000 1.000	5 2 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.0 0.0 0.0	Ð	-	0 1	.000
Habitat Means	3		0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00		О			0.00	0.00		0.00	0.0	0)	
Fisher's Stouffer's		wer				er-50% er-50%				0.655 0.500	Power Power				er-50% er-50%				0.655 0.500	Power Power				r-50% r-50%			valu valu		

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

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; 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										M	orpholo	gical	Group:	Bladed 1	Reds						Bangi	a sp. (Al	E)			
Site Pair M	tvd	N	С	ge	N	0	ŞE		CA 2) P	N	С	SE	Ŋ	٥	SE	CV 1	D	P	N	С	SE	N	0	ge	CV	D	P
	î 1 1	6	4.17 59.58 7.08	2.01 14.25 3.32	4	20.83 18.13 0.00	10. 13. 0.		- ·		5 6	1.67 47,50 2.50	1.24 17.49 2.50	1	0.83 15.63 0.00	0.83 11.83 0.00	-	1	0.580 0.261 0.363	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 1.25 0.00	0.00 1.25 0.00	-	-	1.000 0.391 1.000
Habitat Means	3		23.63	6.53		12.97	7.	97		-		17.23	7.07	7	5.47	4.20		1			0.00	0.00		0.43	0.43		-	
Fisher's Stouffer's		ower ower			Power					0.00			-		er-50%		P-valu P-valu		0.126 0.095	Power Power				r-50% r-50%				0.419 0.403
	2 2 2	5	43.75 22.50 11.50	13.52 15.33 7.40	4	33.98 23.75 0.00	13. 10. 0.		- :		5 5	12.50 15.00 2.00	6.77 13.78 2.00	4	8.38 0.63 0.00	4.78 0.63 0.00	-		0.515 0.386 0.374	6 5 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000
Habitat Means	3		25.93	12.07		19.27	7.	97				9.83	7.53	3	3.00	1.80		-			0.00	0.00		0.00	0.00		٥	
Fisher's Stouffer's		ower	0.236		Power		0.556		-value	e 0.1°					er-50% er-50%		P-valu P-valu		0.155 0.106	Power Power				r-50% r-50%				0.655 0.500
	3 3 3	2	37.00 32.50 21.00	6.44 12.50 12.06	4	53.50 43.13 16.25	15.	14 12 81	_	- 0.33 - 0.73 - 0.76	0 2	10.50 16.25 2.50	3.82 6.29 1.58	5 4	19,50 25.00 13.75	7.22 11.23 8.07	-	-	0.304 0.760 0.193	5 2 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	Ð	1.000 1.000 1.000
Habitat Means	5		30.17	10.33		37.63	13.	33		-		9.77	3.90)	19.43	8.83		-			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		ower	0.030 0.041		Power		0.608			e 0.3					er-50% er-50%		P-valu P-valu		0.109 0.058	Power Power				r-50% r-50%				0.655 0.500

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

Table C 5.376. Page 1. December 15, 1994

	Gigartinaceae Group (P) (a)												F	alma	ria spp.	(A)						Ph	ycodr	ys riggii	. (A)			
Site Pair M	vd N	С	SE	3	Ŋ	0	SE	(V D	P	N	с	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	ÇV	D	Þ
	1 6 1 6 1 6	1.67 0.00 0.00	C	0.00	4	0.83 0.00 0.00	0. 0.	00	- + - 0 - 0	0,580 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- 1	o	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4 6	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000
Habitat Means		0.57	C	.40		0.27	0.	27	+			0.00	0.00		0.00	0.00	}	0			0.00	0.00		0.00	0.00		c	
Fisher's Stouffer's	Powe				Power Power		0.006		value value	0.512 0.437	Power Power				er-50% er-50%				0.655 0.500	Power Power				r-50% r-50%				0.655 0.500
	2 6 2 5 2 5	3.75 11.50 0.00	11	2.39 L.50	4	7.95 0.63 0.00	4. 0. 0.	63	 - 0		6 5 5	8.75 2.50 2.00	7.30 2.50 2.00	4	0.00 0.00 0.00	0.00 0.00 0.00) –	+	0.171 0.374 0.374	6 5 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000
Habitat Means		5.10	4	1.63		2.87	1.	80	-			4.43	3.93		0.00	0.00)	+			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Powe Powe	- :			Power Power		0.133 0.143			0.578 y 0.497	Power Power				er-50%				0.071 0.072	Power Power				r-50% r-50%				0.655 0.500
	3 5 3 2 3 5	2.00 6.25 0.00	ε	2.00 5.25 0.00	4	14.50 15.63 1.25	5. 7. 0.	32		0.5.4	5 2 5	5.50 5.00 1.50	3.91 5.00 1.00	4	0.00 5.63 11.88	0.00 3.29 7.32	- •	-	0.837	5 2 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00		0	1.000 1.000 1.000
Habitat Means		2.77	2	2.77		10.47	4.	60	-			4.00	3.30		5.83	3.53	ı	-			0.00	0.00		0.00	0.00		О	
Fisher's Stouffer's	Powe				Power Power					0.026 0.027	Power Power	0.109 0.035			er-50% er-50%	0.332 0.453				Power Power				r-50% r-50%				0.655 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 olference between habitet means is different than direction of overall tests. z Only one site pair.

Table C-5.376. Algal Percent Cover. Rhodophyta. Cook Inlet/Renai. Sheltered Rocky. May 1991. Overstory removed June 1990. (Continued.)

										т	okidae	iendr	on kurile	nsis (A	}				Morpholog	jical .	Group:	Coars	e Filame	nta	us Re	1s		
Site Pair M	vd N		С	SE	N	0	SE	CA	מ	p	N	С	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	c	g v	P
14.1C/14.1 14.2C/14.2 62762C/50983	1 6 1 6 1 6	4	0.00 17.50 2.50	0.00 17.49 2.50	4	0.00 14.37 0.00	0.00 10.63 0.00	-	+	1.000 0.244 0.363	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00	0.00	-	0	1.000 1.000 1.000	б б	0.00 12.08 4.58	0.00 5.30 3.06	4	13.75 0.63 0.00	6.85 0.63	3	- +	0.017 0.116 0.180
Habitat Means		1	6.67	6.67		4.80	3.53	3	-			0.00	0.00		0.00	0.00		o			5.57	2.80		1.80	2.50	0	_	
Fisher's Stouffer's		wer wer	0.089 0.123		Power Power		0.109 0.136				Power Power				r-50% r-50%		P-val: P-val:		0.655 0.500	Power Power	0.092			r~50% r~50%				0.104× 0.160
	2 6 2 5 2 5		0.00 1.00 0.00	0.00 1.00 0.00	4	0.43 0.00 0.00	0.43 0.00 0.00	-	+	0.363 0.374 1.000	6 5 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00	0.00	-	0	1.000 1.000 1.000	6 5 5	20.83 6.00 0.00	5.39 6.00 0.00	4	13.48 13.75 0.00	6.12 5.82 0.00	2		0.420 0.159 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		_	11000
Fisher's Stouffer's		wer			Power Power			P-valu P-valu			Power Power				r-50% r-50%				0.655 0.500	Power Power	0.033 0.014			c~50%				0.328
14.1C/14.1 14.2C/14.2 62762C/50983	3 5 3 2 3 5		2.50 0.00 1.00	1.58 0.00 1.00	4	0.00 2.50 0.00	0.00 1.77 0.00	-	-	0.181 0.204 0.374	5 2 5	0.50 5.00 0.00	0.50 5.00 0.00	4	5.00 1.25 0.63	3.16 0.72 0.63	-		0.269 0.535 0.391	5 2 5	11.50 10.00 4.50	3.84 0.00 2.00	4	18.00 6.88 0.00	5.44 5.24 0.00	1	- +	0.323 0.336 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			0.073
Fisher's Stouffer's		wer ver	0,023 0,008		Power Power			P-valu P-valu			Power Power	0.199 0.185			r-50% r-50%				0.246 0.178	Power.	0.374		Power	-508	0.793	P-V	alue	0.106

x At least one site pair p value ϵ 0.100 in opposite direction of overall tests. y Direction of difference between babitat means is different than direction of overall tests. x only one site pair y.

table C-5.376. Page 3. December 15, 1994

	Articulate Cor					oralline	Algae	(A)					Crypt	osip	honia wo	ođii (A)						End	ocladi.	a murica	ta (P)			
Site Pair	Mvd N		С	SE	N	0	SE		v D	P	N	С	SE	Ŋ	0	SE	cv	D	P	N	С	SE	N	0	SE	_	CV D	P
14.1C/14.1 14.2C/14.2 62762C/50983	1 6 1 6 1 6		0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.0	00	- 0 - 0		6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 6	0.00 8.33 4.58	0.00 4.64 3.06	4	2.50 0.00 0.00	1.71 0.00 0.00	0	- ·	0.183 0.056 0.180
Habitat Means	S		0.00	0.00		0.00	0.0	00	0			0.00	0.00		0.00	0.00		0			4.30	2.57		0.83	0.57	7		
Fisher's Stouffer's	Pov					r-50% r-50%				0.655 0.500	Power Power				er-50% er-50%		-val:		0.655 0.500	Power Power			Power	~50% ~50%				0.059
	2 6 2 5 2 5		0.00 0.00 0.00	0.00 0.00 0.00	4	0.00	0.0	0	- 0	1.000 1.000 1.000	6 5 5	0.42 0.00 0.00	0.42 0.00 0.00	4	2.08 0.00 0.00	2.08 0.00 0.00	-	0	0.619 1.000 1.000	6 5 5	1.25 5.00 0.00	1.25 5.00 0.00	4	3.35 2.50 0.00	2.47 2.50 0.00	0		0.503 0.865 1.000
Habitat Means	9		0.00	0.00		0.00	0.0	0	0			0.13	0.13		0.70	0.70		-			2.10	2.10		1.97	1.67	7	_	
Fisher's Stouffer's	Pov Pov					r-50% r-50%				0.655 0.500	Power Power				er-50% er-50%	I			0.529 0.444	Power Power	0.008 0.013		Power Power					0.508
	3 5 3 2 3 5		0.00 0.00 0.00	0.00 0.00 0.00	4	2.50 3.13 0.00	1.5 3.1 0.0	3	 	0.101	5 2 5	5.00 0.00 0.50	3.87 0.00 0.50	5 4 4	0.00 0.63 0.00	0.00 0.63 0.00		-	0.210 0.391 0.374	5 2 5	0.00 2.50 0.00	0.00 2.50 0.00	4	0.00	0.00	0		1.000 0.500 1.000
Habitat Means	Ś		0.00	0.00		1.87	1.5	7	-			1.83	1.47		0.20	0.20					0.83	0.83		0.00	0.00	0		
Físher's Stouffer's	Pow Pow		0.114 0.150			r-50% r-50%				0.149 0.266	Power Power	0.011 0.016			er-50%	0.022 I			0.217 0.177	Power Power	~		Power					0.476

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

Table C-5.376. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. May 1991. Overstory removed June 1990. (Continued.)

			Glos	opelt	is furc	ata (A)						Micro	oclad	ia boreal	is (A)					1	Neorhod	lomela	/Rhodome1	a (P) (a)		
Site Pair M	rd N	С	SE	N	٥	SE	CΛ	D	P	N	С	SE	N	0	SB	CA	D	P	N	C	as	N	0	38	CV	D	P
14.1C/14.1 1 14.2C/14.2 1 62762C/50983 1	1 6 1 6 1 6	0.00 3.33 0.00	0.00 2.11 0.00	4	11.25 0.63 0.00	7.09 0.63 0.00		+ (0.054 0.476 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 6 6	0.00 0.42 0.00	0.00 0.42 0.00	4	0.00	0.00 0.00 0.00	-	+	1,000 0.363 1,000
Habitat Means		1.10	0.70		3.97	2.57		-			0.00	0.00		0.00	0.00		0			0.13	0.13	;	0.00	0.00		-	
Fisher's Stouffer's	Power Power	0.127 0.061		Power Power			P-valu P-valu		0.165 0.364	Power Power				r-50%		P-val P-val		0.655 0.500	Power Power				r-50% r-50%				0.403 0.398
14.1C/14.1 2 14.2C/14.2 2 62762C/50983 2	2 6 2 5 2 5	0.42 1.00 0.00	0.42 1.00 0.00	4	7.62 11.25 0.00	4.53 6.81 0.00	-	- (0.082 0.101 1.000	6 5 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00	-	0	1.000 1.000 1.000	6 5 5	3.75 0.00 0.00	3,75 0.00 0.00	4	0.00	0.00	-	0	0.363 1.000 1.000
Habitat Means		0.47	0.47		6.30	3.77		-			0.00	0.00		0.00	0.00		0			1.27	1,27	,	0.00	0.00			
Fisher's Stouffer's	Power Power	0.421		Power Power			P-valu P-valu			Power Power				r-50% r-50%		P-val P-val		0.655 0.500	Power Power				-50% -50%				0.403 0.398
14.1C/14.1 3 14.2C/14.2 3 62762C/50983 3	5 3 2 3 5	0.00 0.00 0.00	0.00	4	0.00	0.00 0.00 0.00	- -	0	1.000 1.000 1.000	5 2 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	5 2 5	0.50 0.00 1.50	0.50 0.00 1.50	4	0.00	0.00 0.63 0.00	-	-	0.374 0.391 0.374
Habitat Means		0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		0			0.67	0.67	,	0.20	0.20		-	
Fisher's Stouffer's	Power Power			Power Power			P-valu P-valu			Power Power				r-50% r-50%				0.655 0.500	Power Power				r-50% r-50%				0.308 0.205

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

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				Odor	thali	a flocco	08& (P)						Ptilot	a/Ne	optilota	(P) (b)					Mor	pho1og	ical G	roup:	Saccate	Re	ds	
Site Pai		g	С	SE	N	0	שי	cv	D	P	N	С	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE		CV D	P
14.1C/14.1 14.2C/14.2 62762C/50983	1 6 1 6	5	0.00 0.00 0.00	0,00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00)	- 0	1.000 1.000 1.000
Habitat Means			0.00	0.00		0.00	0.00		٥			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00)	D	
Fisher's Stouffer's		ower				= 50% = 50%				0.655 0.500	Power Power				r-50% r-50%		-valu -valu		0.655 0.500	Power Power			Power					0.655 0.500
14.1C/14.1 2 14.2C/14.2 2 62762C/50983 2	2 5 2 5	5	15.00 0.00 0.00	6.74 0.00 0.00	4	0.43 0.00 0.00	0.43 0.00 0.00	-	0	0.100 1.000 1.000	6 5 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 5 5	1.67 0.00 7.50	1.67 0.00 5.36	4	0.00	0.00 0.00)	- 0	0.363 1.000 0.197
Habitat Means			5.00	2.23		0.13	0.13		+			0.00	0.00		0.00	0.00		0			3.07	2.37		0.00	0.00	•		
Fisher's Stouffer's		ower	0.261 0.104			r-50% r-50%		P-val P-val		0.187 0.319	Power Power				r-50% r-50%		-valu -valu		0.655 0.500	Power Power	0.042		Power-					0.151 0.075
14.1C/14.1 3 14.2C/14.2 3 62762C/50983 3	3 2 3 3 3 3	2	6.00 2.50 2.00	3.22 2.50 1.22	4	2.00 2.50 0.00	1.22 1.77 0.00	-	0	0.362 0.977 0.178	5 2 5	0.00 5.00 0.50	0.00 5.00 0.50	4	13.50 0.00 0.00	6.92 0.00 0.00	-	+	0.054 0.500 0.374	5 2 5	1.00 0.00 4.00	0.61 0.00 2.92	4	0.00 3.13 2.50	0.00 1.88 2.50	3		0.178 0.185 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	7	1	
Fisher's Stouffer's		ower	0.309			r-50% r-50%				0.143	Power Power	0.008			r-50% r-50%				0.403xy 0.324	Power Power	0.030 0.017		Power-					0.312 y 0.367

 $[\]mathbf{x}$ At least one site pair p value < 0.100 in opposite direction of owerell tests. y Direction of difference between habitat means is different than direction of overall tests. \mathbf{z} Only one site pair.

Table C-5.376. Algal Percent Cover. Rhodophyta. Cook Inlet/Renai. Sheltered Rocky. May 1991. Overstory removed June 1990. (Continued.)

				Halos	accion	glandi	Eorme ()	.)					Ha	losac	cion app.	(A)					Morpholo	gical	Group	: Fine	Filament	tou	s Reds	ı
Site Pair k	tvd	N	С	SE	N	0	SE	CV	D	P	N	c	SE	N	0	SE	CV 1	D	P	N	С	SE	N	0	SE	C	V D	P
14.1C/14.1 14.2C/14.2 62762C/50983	1	6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.0 0.0 0.0	- (0	1.000 1.000 1.000	6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- 0	0	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00)	- o - o	1.000 1.000 1.000
Habitat Means	\$		0.00	0.00		0.00	0.0)	o			0.00	0.00		0.00	0.00	4	0			0.00	0.00		0.00	0.00)	o	
Fisher's Stouffer's		Power Power			Power Power					0.655 0.500	Power Power				r-50% r-50%		P-value P-value		0.655 0.500	Power Power				r-50% r-50%				0.655 0.500
	2 2 2	5	1.67 0.00 7.50	1.67 0.00 5.36	4	0.00 0.00 0.00	0.0 0.0) ~	0	0.363 1.000 0.197	6 5 5	0.00 0.00 0.00	0.00 0.00 0.00	6 4 6	0.00 0.00 0.00	0.00 0.00 0.00	- 0	0	1.000 1.000 1.000	6 5 5	0.00 0.00 2.00	0.00 0.00 1.46	4	0.00 0.00 0.00	0.00	ł	- 0	1.000 1.000 0.198
Habitat Means	\$		3.07	2.37		0.00	0.0)	+			0.00	0.00		0.00	0.00		0			0.67	0.50		0.00	0.00)	+	
Fisher's Stouffer's		Power Power	0.043		Power Power					0.151 0.075	Power Power				r-50% r-50%		P-value P-value			Power Power	0.001 0.000			:-50% :-50%				0.286 0.120
14.1C/14.1 14.2C/14.2 62762C/50983	3 3 3	2	1.00 0.00 4.00	0.61 0.00 2.92	4	0.00 3.13 2.50	0.0 1.8 2.5	3 ~	-	0.178 0.185 0.714	5 2 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- (0	1.000 1.000 1.000	5 2 5	6.50 6.25 9.00	4.85 6.25 6.60	4	0.00 6.88 0.00	0.00 4.72 0.00			0.204 0.983 0.134
Habitat Means	3		1.67	1.17		1.87	1.4	7				0.00	0.00		0.00	0.00	(0			7.27	5.93		2.30	1.57		-	
Fisher's Stouffer's		Power Power	0.051 0.016		Power Power					0.312 y 0.367	Power Power				r-50% r-50%		P-value P-value			Power Power				-50% -50%				0.079 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.

Callithamnion pikeanum (A) Polysiphonia/Pterosiphonia (A) (a) Morphological Group: Crustose Reds Site Pair Myd N С gr N SR CV D P n N C gr. Ω CV D Q R P N С SE O SE ÇV D P 14.1C/24.1 0.00 0.00 .000 0.00 0.00 0.00 0.00 0.00 0.00 2.04 ø 6 ٥ 1.000 2.50 - 6 6.25 5.76 0.7140.00 1.000 14.2C/14.2 0.00 0.00 0.00 0 0.00 0.00 0.00 0.00 1,000 0.00 0.00 1.88 - 0 1 88 - - 0.391 0 1.000 - 0 62762C/50983 1 6 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 1.000 0.00 0.00 6 0.00 0.00 - o 1.000 0.00 0.00 0.00 0.00 0.00 Habitat Means 0.00 0.00 0.00 0.83 0.67 2.73 Fisher's Power-50% Power-50% Power --- P-value 0.655 Power --- P-value 0.655 Power 0.004 Power-50% 0.001 P-value 0.348 ---Power-50% Stouffer's Power --- 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 14.2C/14.2 2 5 0.00 0.00 6 0.00 0.00 - 0 1,000 0.00 0.00 6 0.00 0.00 - 0 8.75 4.91 6 1.50 4 1.000 12.13 5.79 - - 0.638 0.00 0.00 4 0.00 0.00 ~ 0 1.000 0.00 0.00 0.00 0.00 1.000 - - 0.511 - 0 1.50 9.38 9.38 62762C/50983 2 5 0.00 - 0 1.000 - 0 1.000 0.00 0.00 0.00 2.00 1.46 0.00 0.00 0.198 0.00 0.00 6 0.00 0.00 Habitat Means 0.00 0.00 0.00 0.00 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 Power-50% Stouffer's Power ------ 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 0.00 0.00 5 0.00 0.00 ~ o 1.000 6.50 0.00 3 4.85 0.00 7.50 3.71 5 0.00 4 15.38 - 5 - + 0.204 5 16.00 - - 0.884 0.00 0.00 14.2C/14.2 0.00 ~ 0 1.000 1.72 4 0.00 6.25 6.25 6.88 - - 0.983 0.00 1.25 1,25 - - 0.391 - · 0.374 62762C/50983 3 5 0.00 0.00 0.00 0.00 ~ o 1.000 9.00 6.60 0.00 0.00 - + 0,134 1.00 4 1.00 0.60 0.00 Habitat Means 0.00 0,00 0.00 0.00 7,27 5.93 2.30 1.57 2.83 1.57 5.77 5.57 --- P-value 0.655 Fisher's Power-50% 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 0.001 Power-50% 0.141 P-value 0.701

(a) Genera not separated.

x At least one site pair p-value < 0.00 in opposite direction of overall tests. y Direction of difference between tablist means is different than direction of overall tests. Only one site pair.

Table C-5.376, Fage 7, December 15, 1994

Table C-5,376. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. May 1991. Overstory removed June 1990. (Continued.)

				rusto	se Co	ralline A	lgae (P)					Ril	ldenb	randia s	p. (P)								Pat	rocelis (P	,				
Site Pair M	tvd	N	С	SE	N	0	SE	cv	D	P	N	c	SE	N	0	SE	,	V D		P	N	c	SE	N	0	SE	- -	V D		_
14.1C/14.1 14.2C/14.2 62762C/50983	1	6 6 6	0.00 0.00 0.00	0.00	4	0.00	0.0	-	0	1.000 1.000 1.000	6 6 6	2.50 0.00 0.00	2.04 0.00 0.00	4	5.83 1.88 0.00	5.83 1.88 0.00	3	 	0.	.880 .391 .000	6	0.00	0.00	6	0.42	0.42	2		0.363 1.000)
Habitat Means			0.00	0.00		0.00	0.0)	0			0.83	0.67		2.57	2,57		-	Ι.	. 000	0	0.00	0.00		0.00	0.00		- 0	1.000)
Fisher's Stouffer's		Power				r-50% r-50%		P-val P-val		0.635 0.500	Power Power	0.001 0.004			r-50%					391 387	Power Power			Pow	er-50% er-50%		P~v	alue	0.403	
14.1C/14.1 14.2C/14.2 62762C/50983	2	6 5 5	1.25 0.00 0.00	1.25 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00	-	0	0.363 1.000 1.000	6 5 5	7.50 0.00 0.00	3.71 0.00 0.00	4	12.13 9.38 0.00	5.79 9.38 0.00	3	 	0.	539 391 000	6 5	0.00 1.50 0.00	0.00 1.50 0.00	6 4	0.00	0.00) .	- 0	1.000 0.374	
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		- 0	1.000	I
Fisher's Stouffer's		ower ower			Power	r-50% r-50%				0.403	Power Power	0.057 0.074			r-50% r-50%			alue		296 337	Power				or-50% er-50%		P~va	alue	0.409	
	3		0.00 0.00 1.00	0.00 0.00 1.00	4	0.50 1.25 0.00	0.50 1.25 0.00	-	-	0.374 0.391 0.374	5 2 5	7.50 0.00 0.00	3.71 0.00 0.00	4	15.50 0.00 0.00	15.50 0.00 0.00			1.	991 000 000	5 2	0.00 0.00 0.00	0.00	5	0.00	0.00		0	1.000)
Habitat Means			0.33	0.33		0.60	0.60		-			2.50	1.23	-	5.17	5,17		- 0	٠.	000	_	0.00	0.00		0.00	0.00			1.000	
Fisher's Stouffer's		ower			Power					0.318 0.624	Power Power	0.002			r-50% r-50%			alue		653 499	Power Power			Powe	er-50%		P~vā		0.655	

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N At least one sits pair p-value < 0.100 in opposite direction of overall tests.</p>
y direction of difference between habitat means is different than direction of overall tests.
z Orly one site pair.

Table C-5.377. Algal Percent Cover. Invertebrates. Cook Inlet/Renai. Sheltered Rocky. May 1991. Overstory ramoved 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; SZ = standard error; D = direction of difference; + - control > oiled; - - control < oiled; O = control = oiled; P = probability value; dashes = insufficient data.

					Act	iniidae								Ba1	anomorph	a							Polyg	lacophor	a			
Site Pair M	ivd.	N	c	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	CV I	D .	P	N	¢	SB	N	0	SE	(cv d	P
	1	6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-		1.000 1.000 1.000	6 6	3.33 14.58 37.50	1.54 7.94 11.44	4	11.67 28.13 8.75	4.50 21.30 3.69		-	0.235 0.601 0.066	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 0.00 0.00	0.00 0.00 0.00)	- 0	1.000 1.000 1.000
Habitat Means	3		0.00	0.00		0.00	0.00		٥			18.47	6.93		16.20	9.83	-	-			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer's		ower Power			Power					0.655	Power Power	0.129 0.016			r-50% r-50%		-value		0.344xy 0.884	Power Power				:-50% :-50%				0.655
	2	5	0.00	0.00	4	0.00 0.00 0.00	0.00	-	О	1.000 1.000 1.000	6 5 5	6.67 5.00 5.00	3.96 3.16 4.40	4	8.33 19.37 12.08	3.86 10.07 6.34		-	0.903 0.194 0.369	6 5 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00)	- 0	1.000 1.000 1.000
Habitat Means	s		0.00	0.00		0.00	0.00		0			5.57	3.87		13.27	6.77	-	-			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer's		Power			Power					0.655	Power Power	0.353 0.418			r-50% r-50%		P-value P-value		0.141 0.110	Power Power				-50% -50%				0.655 0.500
	3	5 2 5	0.00	0.00	4	0.00 0.00 0.00	0.00	-	0	1.000 1.000 1.000	5 2 5	6.00 0.00 20.00	4.23 0.00 5.86	4	0.00 12.50 11.25	0.00 12.50 11.25	- :	-	0.126 0.391 0.191	5 2 5	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00)	- 0	1.000 1.000 1.000
Habitat Means			0.00	0.00		0.00	0.00		0			8.67	3.37		7.93	7.93		4			0.00	0.00		0.00	0.00	0	٥	
Fisher's Stouffer's		Power Power			Power Power			P-val P-val		0.655 0.500	Power Power				er-50% er-50%		P-value P-value		0.100 0.083	Power Power				c-50% c-50%				0.655 0.500

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

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					Lo	ttiidae								1	Mytilus							1	łuce11	a lamelle	ова			
Site Pair	Mvd 2	Ŋ	С	SE	N	0	SE	(V D	P	N	С	SE	N	0	SE	C	7 D	P	И	С	SE	n	0	SE	ÇV	D	P
14.1C/14.1 14.2C/14.2 62762C/50983	1 (1 (3 1 (6	0.00 0.42 0.00	0.00 0.42 0.00	4	0.00 0.00 0.00	0.0 0.0	00	- 0 - + - 0		6 6 6	0.00 0.00 5.00	0.00 0.00 2.14		0.00 0.00 0.83	0.00 0.00 0.83) - 3 -	0	1.000 1.000 0.086	6	0.00 0.00 0.00	0.00 0.00 0.00	4 6	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000
Habitat Mear	ns		0.13	0.13		0.00	0.0	0.0	+			1.67	0.70		0.27	0.27	7	+			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		ower				r-50% r-50%			ralue value		Power Power	0.074			er-50% er-50%			elue elue	0.170 0.058					r-50% r-50%				0.655
14.1C/14.1 14.2C/14.2 62762C/50983	2 3 3 2 3	5	0.00	0.00	4	0.00 0.00 0.00	0.1	0.0	- o	1.000 1.000 1.000	6 5 5	0.00 0.00 2.50	0.00 0.00 2.50	4	1.25 0.63 7.08	1.25 0.63 6.14	3.		0.363 0.391 0.596	6 5 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000
Habitat Mean			0.00	0.00	1	0.00	0.0	00	0			0.83	0.83		3.00	2.67	7	-			0.00	0.00		0.00	0.00	ı	0	
Fisher's Stouffer's	Pe	ower				r-50% r-50%			ralue ralue	0.655	Power Power	0.043 0.172			er-50% er-50%				0.168 0.161					r=50% r=50%				0.655
14.1C/14.1 14.2C/14.2 62762C/5098	3	5 2 5	0.50 0.00 0.00	0.50 0.00 0.00	4	0.00	0.0	00	- + - 0 - 0		5 2 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 8.75	0.00 0.00 8.75	0 -		1.000 1.000 0.391		0.00 0.00 0.00	0.00	4	0.00	0.00 0.00 0.00	- •	o	1.000 1.000 1.000
Habitat Mean			0.17	0.17	,	0.00	0.	00	+			0.00	0.00		2.93	2.9	3	-			0.00	0.00	+	0.00	0.00)	0	
Fisher's Stouffer's	9	ower ower				r-50% r-50%				0.409	Power Power				62-20% 62-20%				0.419					r-50% r-50%				0.655 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. Algal Percent Cover. Invertebrates. Cook Inlet/Renai. Sheltered Rocky. May 1991. Overstory removed June 1990. (Continued.)

					Litto	rinidae								P	orifera								Ćr	ideria				
Site Pair Mv	rd N	c	SE		N	0	SE	CV	D	P	N	С	8E	N	0	SE	cv	D	P	N	С	SE	N	0	SE		CV D	P
14.1C/14.1 1 14.2C/14.2 1 62762C/50983 1	. б . б	0.00 0.00 0.00	0.	00 00	6 4 6	0.00 0.00 0.00	0.00	-	0	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00	0.00)		1.000 1.000 1.000
Habitat Means		0.00	0.	00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Powe				Power-					0.655 0.500	Power Power				±-50% ±-50%		P-valı P-valı		0.655	Power Power				r-50% r-50%				0.655 0.500
14.1C/14.1 2	2 6	0.00	0.	00 00	6 4 6	0.00	0.00 0.00 0.00	-	Q	1.000 1.000 1.000	6 5 5	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 5 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	0		1.000 1.000 1.000
Habitat Means		0.00		00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	0	0	
Fisher's Stouffer's	Powe				Power-			P-va P-va		0.655 0.500	Power Power				r-50% r-50%		P-val P-val		0.655 0.500	Power				r-50% r-50%				0.635 0.500
14.1C/14.1 3	3 5 3 2 3 5	0.00 0.00 0.00	0.	00	5 4 4	0.00	0.00	-	0	1.000 1.000 1.000	5 2 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	5 2 5	0.00	0.00	4	0.00 3.13 0.00	0.00 3.13 0.00	3		1.000 0.391 1.000
Habitat Means		0.00	0.	00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00)	1.03	1.03	3	-	
Fisher's	Powe	er			Power-					0.655 0.500	Power Power				er-50% er-50%				0.655	Power Power				r-50% r-50%				0.419 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-5.378. Algal Percent Cover. Substrates. Cook Inlet/Renai. 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							Oi	led Rock								Mud			
Site Pair	Mvd	N	С	SE	N	0	SE	¢v	D P	N	c	SE	N	0	SE	CV D	P	N	c	SE	N	0	SE	CV D	P
14.1C/14.1 14.2C/14.2 62762C/50983	1 1 3 1	6 6 6	60.83 15.83 16.25	8.48 9.95 4.95	4	37.92 33.13 42.08	10.38 18.52 15.59	-		9 6	0.00	0.00	4	2.08 0.00 0.00	2.08 0.00 0.00	 - 0 - 0		6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- 0	1.000 1.000 1.000
Habitat Mean	ns		30.97	7.83		37.70	14.83		-		0.00	0.00		0.70	0.70	-			0.00	0.00	1	0.00	0.00	0	
Fisher's Stouffer's		Power Power	0.225		Power Power			-valu	e 0.33 e 0.25					r-50% r-50%		-value -value	0.403	Power Power			Power Power				0.655 0.500
14.1C/14.1 14.2C/14.2 62762C/50983	2 2 3 2	6 5 5	32.50 1.00 11.50	15.19 1.00 4.65	4	31.72 27.50 14.17	11.47 16.14 8.72		0.94 - 0.07 - 0.79	5 5	0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- o - o		6 5 5	0.00	0.00	4	0.00 0.00 0.00	0,00 0.00 0.00	- 0	1.000 1.000 1.000
Habitat Mean	r.s		15.00	6.97		24.47	12.10		-		0.00	0.00		0.00	0.00	0			0.00	0.00		0.00	0.00	0	
Fisher's Stouffer's		Power Power			Power Power		0.437 E		e 0.13 e 0.23					er-50% er-50%		e-value e-value	0.655 0.500	Power Power			Power Power				0.655 0.500
14.1C/14.1 14.2C/14.2 62762C/50983	3 3 3 3	5 2 5	16.00 7.50 34.50	6.87 7.50 14.15	4	1.50 6.25 10.63	1.50 2.39 5.04	-		8 2	0.00 0.00 0.00	0.00	4	0.00	0.00 0.00 0.00		1.000 1.000 1.000	5 2 5	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- D	1.000 1.000 1.000
Habitat Mean	ns		19.33	9.53		6.13	2.97		+		0.00	0.00		0.00	0.00	0			0.00	0.00		0.00	0.00	0	
Fisher's Stouffer's		Power Power			Power Power				e 0.03 e 0.03					r-50% r-50%			0.655 0.500	Power			Power Power				0.655 0.500

x At least one site pair p-value < 0.130 in opposite direction of overall tests.</p>
y Direction of difference between habitat means is different (her direction of overall tests.
2 Only one site pair.

Table C 5.378. Page 1. December 15, 1994

						Sand								Shell	Fragment	:8						F	ilamer	tous Diam	coms			
Site Pair	Mvd	N	С	SE	N	0	SE	cv	D	P	N	c	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE		ÇV D	P
14.1C/14.1 14.2C/14.2 62762C/50983		6 6 6	0.00 0.00 0.00	0.00	4	0.42 0.00 0.00	0.42 0.00 0.00	-	0	0.363 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00)	- o	1.000
Fabitat Mean:	s		0.00	0.00		0.13	0.13		-			0.00	0.00		0.00	0.00		0			0.00	0.00)	0.00	0.00)	0	
Fisher's Stouffer's		Power Power				er-50% er-50%				0.403 0.398	Power Power				r-50% r-50%		-valu		0.655	Power Power				r-50% r-50%				0.655 0.500
	2 2 2		0.00	0.00	4	0.00 0.00 12.92	0.00 0.00 12.92	-	0	1.000 1.000 0.363	6 5 5	0.00 0.00 0.00	0.00	4	0.00	0.00 0.00 0.00	-	Q	1.000 1.000 1.000	6 5 5	0.00 0.00 0.00	0.00	4	0.00	0.00)	- 0	1.000 1.000 1.000
Habitat Mean	s		0.00	0.00		4.30	4.30		-			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer's		Power Power				r-50% r-50%				0.403	Power Power				r-50% r-50%				0.655 0.500	Power Power				r-50% r-50%				0.655 0.500
14.1C/14.1 14.2C/14.2 62762C/50983	3 3 3	5 2 5	0.00 0.00 0.00	0.00	4	0.00	0.00		0	1.000 1.000 1.000	5 2 5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000	5 2 5	0.00	0.00	4	0.00	0.00 0.00 0.00)	- 0	1.000 1.000 1.000
Habitat Mean	s		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00	•	0.00	0.00)	0	
Fisher's Stouffer's		Power Power				r-50% r-50%				0.655 0.500	Power Power				r-50% r-50%		P-valu P-valu		0.655 0.500	Power Power				r-50% r-50%				0.655

x At least one site pair p-value < 0.100 in opposite direction of overall tests. y Direction of difference between labilat means is different than direction of overall tests. 7 Only one site pair.

Table C-5.378. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Renai. Sheltered Rocky. May 1991. Overstory removed June 1990. (Continued.)

				Sand	and Mud							Tota	1 Substr	ate										
Site Pair Mvd	N	с	SE	N	0	SE	CA E	P	N	c	SE	N	0	SE	CV D	P	N	c	SE	n	0	SE	CV D	P
14.1C/14.1 1 14.2C/14.2 1 62762C/50983 1	6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.42 0.00 0.00	0.42 0.00 0.00	- c	0.363 1.000 1.000	6 6 6	60.83 15.83 16.25	8.48 9.95 4.95	4	40.42 33.13 42.08	11.77 18.52 15.59		0.185 0.409 0.337								
Habitat Means		0.00	0.00		0.13	0.13	-			30.97	7.83		38.53	15.30	-									
	Power			Power Power				0.403	Power Power				er-50% er-50%	0.601 0.651	P-value P-value		Power Power			Power Power			P-value P-value	
14.1C/14.1 2 14.2C/14.2 2 62762C/50983 2	5	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 12.92	0.00 0.00 12,92	- 0	1.000 1.000 0.363	6 5 5	32.50 1.00 11.50	15.19 1.00 4.65	4	31.72 27.50 27.08	11.47 16.14 16.13		0.944 0.075 0.691								
Habitat Means		0.00	0.00		4.30	4.30	-			15.00	6.97		28.77	14.57	-									
	Power Power			Power Power				0.403	Power Power				er-50% er-50%		P-value P-value					Power Power			P-value P-value	
14.1C/14.1 3 14.2C/14.2 3 62762C/50983 3	2	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00	- 0	1.000 1.000 1.000	5 2 5	16.00 7.50 34.50	6.87 7.50 14.15	4	1.50 6.25 10.63	1.50 2.39 5.04	- +	0.056 0.918 0.163								
Habitat Means		0.00	0.00		0.00	0.00				19.33	9.53		6.13	2.97	-									
	Power Power	- 		Power Power				0.655	Power Power				er-50% er-50%		P-value P-value					Power Power			P-value P-value	

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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-5.379. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Renai. 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; P = probability value; dashes = insufficient data.

		Algal	Diversity 1	Index (a)				Alga	l Taxa	Richne	es (b)						Total Alg	ae			
Site Pair Mvd N	C 1	SE	n o	SE CV I	P	N	c	SE	N	0	\$E	CV D	P	N	C	SE	и О	SE	c	V D	P
14.1C/14.1 1 5 14.2C/14.2 1 6 62762C/50983 1 5	0.02 0.25 0.10	0.02 0.07 0.10	5 0.12	0.10 0.06 - + 0.04 - +	0.201	5 6 5	1.00 2.83 1.20	0.32 0.70 0.73	5	2.00 1.20 0.50	0.55 0.49 0.34	 - + - +	0.153 0.101 0.383	5 6 5	21.50 67.08 34.50	15.46 16.94 17.47	5 15.0	0 6	71	- +	0.142 0.027 0.194
Habitat Means	0.12	0.06	0,11	0.07 +			1.68	0.58		1.23	0.46	+			41.03	16.63	25.1	9	.77	+	
Fisher's Power Stouffer's Power	0.073 0.020		Power-50% Power-50%	0.379 P-value 0.460 P-value		Power Power	0.284 0.111		Power-		0.846 I		0.151 0.196	Powe:			Power-50% Power-50%				0.037
14.1C/14.1 2 6 14.2C/14.2 2 5 62762C/50983 2 6	0.33 0.34 0.27	0.10 0.09 0.10	6 0.24	0.12 - +	0.530	6 5 6	3.67 3.60 3.33	0.95 0.93 0.84	6	4.33 2.50 1.25	0.49 0.85 0.25	 - ·	0.549 0.404 0.088	6 5 6	64.58 87.00 58.75	14.00 6.96 12.73	6 25.0	0 9	.90		0.410 0.002 0.699
Habitat Means	0.32	0.10	0.26	0.07			3.53	0.91		2.69	0.53	+			70.13	11.23	41.1	7 12	.67	-	
Fisher's Power Stouffer's Power	0.309		Power-50% Power-50%	0.837 P-value		Power Power	0.271		Power-			P-value P-value	0.121 0.052	Powe:			Power-50% Power-50%				0.004
14.1C/14.1 3 5 14.2C/14.2 3 2 62762C/50983 3 5	0.40 0.45 0.47	0.12 0.05 0.08	5 0.55	0.07 0.11 0.08	0.584	5 2 5	5.00 4.50 4.60	1.30 0.50 0.60	5	7.33 5.00 2.00	0.76 1.52 0.77	 - +	0.852	5 2 5	77.50 93.75 62.50	14.60 1.25 14.38	5 44.0	0 14	. 27		0.238 0.071 0.495
Habitat Means	0.44	0.08	0.44	0.09 -			4.70	0.80		4.78	1.02	-			77.93	10.10	72.0	7 9	.73	-	
Fisher's Power Stouffer's Power	0.123 0.006		Power-50% Power-50%	0.996 P-value 0.996 P-value	0.178× 0.943	Power Power	0.083 0,004		Power-			P-value P-value		Powe:			Power-50% Power-50%	0.81			0.309xy 0.328

|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 behind means is different than direction of overall tests. z Univ one sine pair.

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				To	tal I	nverteb:	rates							Rock								Perer	mials ((P)			
Site Pair	Mvd	N	c	SE	N	0	SE	CV I	P	N	С	SE	N	0	SE	CV	D	P	N	С	SE	Ŋ	0	SE	CV :	D	P
14.1C/14.1 14.2C/14.2 62762C/5098		5 6 5	10.50 12.92 22.50	8.23 11.93 8.84	5	13.50 15.50 16.67	10.17 7.00 5.90		0.873 0.674 0.783	5 6 5	68.00 20.00 43.00	18.45 15.23 17.79	5	35.00 69.50 74.58	11.94 12.85 10.15	-	-	0.154 0.032 0.207	5 6 5	21.50 27.08 24.50	15.46 12.19 18.41	5	44.50 3.00 7.08	16.68 3.00 6.14		+ 1	0.359 0.067 0.407
Habitat Mea	ıns		15.30	9.63		15,23	7.70				43.67	17.17		59.70	11.67		-			24.37	15.37		18.20	8.60	i e	+	
Fisher's Stouffer'	s	Power Power				r-50% r-50%			0.567 y 0.535	Power Power				r-50% r-50%		P-valu P-valu		0.044 0.087	Power Power	0.14 0.08		Power Power		0.252 0.355	P-valu P-valu		0.110 0.154
14.1C/14.1 14.2C/14.2 62762C/5098	2	6 5 6	20.83 9.00 13.33	9.78 5.04 9.61	6	8.33 23.75 35.63	4.55 10.54 14.94		0.449 0.353 0.246	6 5 6	14.58 4.00 27.92	7,26 2.03 11.28	6	36.25 50.42 21.25	10.60 14.10 9.21	-	-	0.138 0.027 0.559	6 5 6	60.00 70.00 46.67	15.34 10.64 8.84	6	40.83 12.92 42.50	9.10 10.11 19.42		+ 1	0,249 0.004 0.932
Habitat Mea	ır.s		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 Stouffer'		Power Power				r-50% r-50%			0.226	Power Power				r-50% r-50%	0.746			0.023	Power Power	0.62		Power Power			P-valu P-valu		
14.1C/14.1 14.2C/14.2 62762C/5098		2	9.50 5.00 22.50	5.56 0.00 16.66	5	2.92 30.00 8.00	2.92 14.30 5.56		0.257 0.144 0.543	5 2 5	13.00 1.25 15.00	11.76 1.25 6.47	5	2.92 26.00 14.00	1.98 13.93 8.57	-	-	0.453 0.250 0.910	5 2 5	45.50 48.75 24.00	16.96 21.25 16.86	5	37.50 17.00 71.00	5.24 3.39 8.16	-	+ 1	0.912 0.057 0.039
Habitat Mea	ns		12.33	7.43		13.63	7.60		+		9.77	6.53		14.30	8.17		+			39.43	18.40		41.83	5.60	ı	-	
Fisher's Stouffer'	s	Power Power				r-50% r-50%			0.334	Power Power	0.032 0.009			r-50% r-50%		P-valu P-valu		0.568 _Y 0.505	Power Power	0.14		Power Power			P-valu P-valu		0.189×y 0.906

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

Table C-5.379. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Overstory removed August 1990. (Continued.)

					Ann	uals (A)								Ephen	erals (AE)												
Gito Dair 1	tevri	N	۲	SE	N	Ω	Se	C۱	ם ז	P	N	С	SE	N	o	ŞE	CV D	P	,	N	¢	SE	N	0	SE	C.	V D	P
	1		40.00 10.00	17,83 8.25	5	12.00	7.3	5 -		0.253 0.327	6 5	2.08 10.00	1.36	5	10.50	6.44												
Habitat Means	s		16.67	8.70		6.90	4.2	7	+			4.03	3.23		3.50	2.13	-											
Fisher's Stouffer's		Power Power	0.054 0.006			r-50% r-50%				0.249× 0.230	Power Power	0.013 0.019			r-50% r-50%	0.094				Power Power			Power			P-v P-v		
14.1C/14.1 14.2C/14.2 62762C/50983	2 2 2	5	4.58 17.00 12.08	1.64 6.63 5.02	б	14.58 12.08 0.63	0.4 5.2 0.6	2 -		0.013 0.646 0.098	6 5 6	0.00 0.00 1.25	0.00 0.00 1.25	6	1.25 1.67 0.00	1.25 1.24 0.00			194									
Habitat Mean	\$		11.23	4.40		9.10	2.0	7	+			0.43	0.43		1.00	0.83	-											
Fisher's Stouffer's		Power Power				r-50% r-50%				0.217× 0.175	Power Power	0.021			r-50% r-50%		P-value P-value			Power Power			Powe:			P-v P-v		
14.1C/14.1 14.2C/14.2 62762C/50983	3 3 3	2	32.00 45.00 38.50	17.06 20.00 13.08	5	56.67 27.00 7.00	6.7 11.5 4.9	8 -	+	0.347 0.418 0.031	5 2 5	2.50 0.00 1.00	1.58 0.00 0.61	5	22.50 7.00 4.00	10.70 3.66 4.00		0.0 0.0 0.7	086									
Habitat Mean	8		38.50	16.73		30.23	7.7	7	~			1.17	0.73		11.17	6.13	-											
Fisher's Stouffer's		Power Power				r-50% r-50%				0.065 0.026	Power Power				r-50% r-50%		P-value P-value			Power Power				-50% -50%		P-v P-v	ralue ralue	

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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 habital means is different than direction of overall tests.
z Only one site pair.

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; CV = coofficient of variation; SE = standard error; D direction of difference; + control > oiled; - = control < oiled; o = control = oiled; P probability value; dashes = insufficient data.

				Tota	l Chlorop	hyta		_		Morp	hologi	cal G	roup: B	laded G	reens					Bla	ded G	reens (A	E) (a)			
Site Pair	Mvd N	С	SE	N	0	SE	CV) P	N	c	8E	N	٥	SE	CV	D	P	N	С	SE	N	0	SE	CV	D	P
14.1C/14.1 14.2C/14.2 62762C/50983	1 5 1 6 1 5	0.00 1.67 10.00	0.0 1.6 8.2	7 5	0.00 10.50 0.00	0.00 6.44 0.00	-	0.255 0.228	5 6 5	0.00 1.25 0.00	0.00 1.25 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	F	1.000 0.363 1.000	5 6 5	0.00 1.25 0.00	0.00 1.25 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	+	1.000 0.363 1.000
Habitat Mean	1.5	3,90	3.3	3	3.50	2.13	ŀ	1		0.43	0.43		0.00	0.00		+			0.43	0.43		0.00	0.00		-	
Fisher's Stouffer's	Power Power				er-50%			0.423	Power Power			Power Power			P-valu P-valu		0.403 0.398	Power Power				r-50% r-50%				0.403 0.398
14.1C/14.1 14.2C/14.2 62762C/50983	2 6 2 5 3 2 6	0.83 0.00 2.92	0.5 0.0 2.9	0 6	1.25 1.67 0.00	1.25 1.24 0.00	-	0.909 0.194 0.363	6 5 6	0.00 0.00 1.25	0.00 0.00 1.25	6 6 4	1.25 0.42 0.00	1.25 0.42 0.00	-	-	0.363 0.363 0.363	6 5 6	0.00 0.00 1.25	0.00 0.00 1.25	6	1.25 0.42 0.00	1.25 0.42 0.00	-	-	0.363 0.363 0.363
Habitat Mean	ns	1.23	1.1	3	1.00	0.83		-		0.43	0.43		0.57	0.57		-			0.43	0.43		0.57	0.57		-	
Fisher's Stouffer's	Powe Powe				er-50%			0.355	Power Power			Power Power			P-valu P-valu			Power Power				r-50% r-50%				0.301 0.623
14.1C/14.1 14.2C/14.2 62762C/50983	3 5 3 2 3 3 5	2.50 0.00 6.00	1.5 0.0 4.7	0 5	28,33 9.00 2.50	11.04 4.65 2.50	-	0.000	5 2 5	2.50 0.00 1.00	1.58 0.00 0.61	6 5 5	21.67 7.00 2.50	10.38 3.66 2.50	-	-	0.040 0.086 0.917	5 2 5	2.50 0.00 1.00	1.58 0.00 0.61	5	21.67 7.00 2.50	10.38 3.66 2.50	-	-	0.040 0.086 0.917
Habitat Mean	ış	2.83	2.1	3	13.27	6.07		-		1.17	0.73		10.40	5.53		-			1.17	0.73		10.40	5.53		-	
Físher's Stouffer's	Powe Powe	_			er-50%			0.015	Power Power	0,797		Power Power			P-valu P-valu		0.015 0.121	Power Power	0.794			=-50% =-50%				0.016 0.121

(e) Kormannia, Monostroma, Ulva and Ulvatia. X at least one site pair p-value < 0.100 in opposite direction of overall tests. Direction of difference between habitat means is different than direction of nuarail tests. 2 Ouly one site pair.

С

0.00

0.42

14.1C/14.1

14.2C/14.2

Site Pair Myd N

Morphological Group: Fine Filamentous Greens Acrosiphonia sp. (A) Chaetomorpha/Rhizoclonium (A) (a) AB N Ď SE CV D P С SE a 8E CV D P N C SE SE P N n CV D 0.00 1.000 0.00 1.000 - o 1.000 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 ٥ Ð + 0.363 0.42 0.00 0.00 0.42 0.42 0.00 0.00 0.363 0.00 0.00 0.00 0.00 - o 1.000 8,25 0.00 0.00 - + 0.228 0.00 0.00 6 0.00 0.00 0 1.000 0.00 0.00 0.00 0.00 - o 1.000 2.90 0.00 0.00 0.13 0.13 0.00 0.00 0.00 0.00 0.00 0.00

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62762C/50983 1 10.00 3.47 Habitat Means Fisher's 0.013 Power-50% 0.016 P-value 0.166 --- P-value 0.403 Power-50% Power Power Power-50% Power --- P-value 0.655 Stouffer's Power-50% --- P-value 0.087 Power-50% --- P-value 0.398 --- P-value 0.500 Power Power Power _ --Power-50% 2 6 2 5 0.83 0.53 0.00 0.00 - - 0.175 0.42 0.42 0.00 0.363 0.42 0.42 6 14.10/14.1 б 6 0.00 0.00 0.00 - + 0.363 14.2C/14.2 0.00 0.00 0.00 0.00 - 0 1.000 0.00 0.00 6 0.00 0.00 - 0 1.000 0.00 0.00 0.00 0.00 6 - 0 1,000 6 - o 1.000 - + 0.363 - - 0.363 62762C/50983 2 6 1.67 1.67 1.67 1.67 4 0.00 0.00 4 4 0.00 0.00 0.00 0.00 6 0.00 0.00 Habitat Means 0.83 0.73 0.00 0.00 0.70 0.70 0.00 0.00 0.13 0.00 0.13 0.00 Fisher's Power 0.154 Power-50% 0.144 P-value 0.139 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-50% --- P-value 0.138 Power ---Power-50% --- P-value 0.398 14.1C/14.1 3 0.00 0.00 6 - - 0.258 0.00 0.00 6 6.25 5.76 - - 0.258 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 0.00 0.00 5 2.00 1.22 - -0.178 0.00 0.00 0.00 0.00 - 0 1.000 - + 0.374 62762C/50983 3 5 5.00 5.00 5 0.00 0.00 5.00 5.00 5 0.00 0.00 - + 0.374 5 0.00 0.00 5 0.00 - o 1.000 2.77 2.77 Habitat Means 1.67 1.67 2.33 1.67 1.67 2.33 0.00 0.00 0.00 0.00 Fisher's 0.024 --- P-value 0.155 0.021 Power-50% --- P-value 0.155 Power Power-50% Power Power ---Power-50% --- P-value 0.655 --- P-value 0.543 --- P-value 0.543 Stouffer's Power 0.030 Power-50% Power 0.027 Power-50% 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.)

				C1	adoph	ora sp. ((AE)						υ	loth	rix sp. (A	AE)						1	Orospo	га вр. (2	AZ)			
Site Pair M	vd N		С	SE	N	0	SE	cv	D	P	N	С	SE	N	0	SE	C₹	D	P	N	С	SE	N	0	Se		CA D	P
14.1C/14.1 14.2C/14.2 62762C/50983	1 5 1 6 1 5		0.00 0.00 1.50	0.00 0.00 1.50	5	0.00	0.00 0.00 0.00	-	0	1.000 1.000 0.374	5 6 5	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1,000 1.000	5 6 5	0.00 0.00 8.50	0.00 0.00 8.50	5	0.00 0.00 0.00	0.00 0.00 0.00)	- o	1.000 1.000 0.374
Habitat Means			0.50	0.50		0.00	0.00		1			0.00	0.00		0.00	0.00		0			2.83	2.83	3	0.00	0.00		-	
Fisher's Stouffer's		wer wer				r-50% r-50%				0.409 0.208	Power Power				r-50% r-50%		?-valu ?-valu		0.655 0.500	Power Power			Power Power					0.409
14.1C/14.1	2 6 2 5 2 6		0.00 0.00 0.00	0.00	б	0.00	0.00 0.00 0.00	<u>-</u> -	0	1.000 1.000 1.000	6 5 6	0,00 0.00 0.00	0.00 0.00 0.00	6	0.00	0.00 0.00 0.00	-	Q	1.000 1.000 1.000	6 5 6	0.00 0.00 0.00	0.00	6	0.00 0.00 0.00	0.00 0.00 0.00)	- 0	1.000 1.000 1.000
Habitat Means	ı		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00)	0.00	0.00)	0	
Fisher's Stouffer's		wer wer				r-50% r-50%				0.655	Power Power				er-50% er-50%		P-valu		0.655	Power Power			Power Power					0.655
	3 5 3 2 3 5		0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	000	1.000 1.000 1.000	5 2 5	0.00 0.00 0.00	0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	0 0	1.000 1.000 1.000	5 2 5	0.00 0.00 0.00	0.00	5	0.00 0.00 0.00	0.00)	- 0	1.000 1.000 1.000
Habitat Means	3		0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		0			0,00	0.00)	0.00	0.00		0	
Fisher's		wer				r-50% r-50%				0.655 0.500	Power Power				er-50%		P-valu P-valu		0.655 0.500	Power Power			Power	-50% -50%				0.655 0.500

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

Table C-5.180. Page 3. December 15, 1

	Мо	rphologic	al Gr	oup:	Tubular	and Sac	cate	Gre	ers		B 1	idingi	a/Ent	eromorphe	1 (AE) (a)											
Site Dair Min	N	Ċ	AR	N	n	ЯR	C.V	D	Þ	N	c	SE	N	Q	ŞE	cv	מ	P	N	c	SE	N	0	SE	(CA D	P
14.10/14.1 1 14.2C/14.2 1 62762C/50983 1	6	0.00	0.00	5	10.50 0.00	6.44	-	-	0.178	6	0.00	0.00		10.50	6.44			0.178									
Habitat Means		0.00	0.00		3.50	2.13	3	-			0.00	0.00		3.50	2.13		-										
Fisher's Stouffer's	Power Power	0.013 0.013			r-50% r-50%				0.268 0.350	Power Power	0.009			r-50% r-50%				0.268	Power Power			Power				value value	
14.1C/14.1 2 14.2C/14.2 2 62762C/50983 2		0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 1.25 0.00	0.00 1.25 0.00	5 -	-	1.000 0.363 1.000	6 5 6	0.00 0.00 0.00	0.00	6	0.00 1,25 0.00	0.00 1.25 0.00	-	-	1.000 0.363 1.000									
Habitat Means		0.00	0.00		0.43	0.4	3	-			0.00	0.00		0.43	0.43		-										
Fisher's Stouffer's	Power Power				r-50% r-50%		P-val P-val	lue Lue	0.403	Power Power				r-50% r-50%			uė	0.403	Power Power			Power				value value	
	5 2 5	0.00 0.00 0.00	0.00 0.00 0.00	5	0.42 0.00 0.00	0.4) –	0	0.363 1.000 1.000	5 2 5	0.00 0.00 0.00	0.00 0.00 0.00	5	0.42 0.00 0.00	0.42 0.00 0.00	-	O	0.363 1.000 1.000									
Habitat Means		0.00	0.00		0.13	0.1	3	-			0.00	0.00		0.13	0.13		-										
Fisher's Stouffer's	Power Power				er-50% er-50%				0.403	Dome.				r-50% r-50%				0.403	Power Power			Powe:				value value	

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	Phaeoph	yta.					Morp	hologi	cal G	roup:	Bladed B	rowns	9					Alar	ia sp. (A)			
Site Pair	Mvd	N	c	SE	N	0	SE	CA	D	P	N	С	SE	N	0	SE	CV	ם	Þ	N	C	8E	N	0	SE	cv	D	P
14.1C/14.1 14.2C/14.2 62762C/50983	1 1 3 1	6	20.00 20.42 23.00	14.64 10.40 18.41	5	34.00 0.00 7.08	15.38 0.00 6.14	-	F	0.457 0.044 0.440	5 6 5	20.00 20.42 23.00	14.64 10.40 18.41	5	34.00 0.00 7.08	15.38 0.00 6.14) - L -		0.457 0.044 0.440	5 6 5	0.00 0.00 0.00	0.00 0.00 0.00	5 6	0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000
Habitat Mear Fisher's Stouffer's		Power Power	21.13	14.47	Power	13.70 r-50% r-50%		9-val 2-val		0.082	Power Power	21.13 0.193			13.70 r-50% r-50%		P-va P-va			Power Power	0.00		Power	0.00 r-50% r-50%				0.655 0.500
14.1C/14.1 14.2C/14.2 62762C/50983	2	6 5	35.42 55.50 32.50	16.97 15.64 8.01	6	21.67 2.50 42.50	9.35 1.58 19.42	-	-	0.516 0.004 0.475	6 5 6	34.17 55.50 32.50	17.35 15.64 8.01	6	21.67 2.50 42.50	9.35 1.58 19.42	} -	+	0.570 0.004 0.475	6 5 6	0.00 0.00 0.42	0.00 0.00 0.42	6	0.00 0.00 0.00	0.00	-	0	1.000 1.000 0.363
Habitat Mear Fisher's	ns	Power	41.13	13.53	Powe:	22.23 r-50% r-50%		P-val		0.016 0.364	Power Power	40.73		Powe	22.23 r-50% r-50%		P-vā		0.018 0.372	Power Power	0.13			0.00 r-50% r-50%				0.403 0.203
Stouffer's 14.1C/14.1 14.2C/14.2 62762C/50981	3	2	0.415 44.00 15.00 40.00	19.92 2.50 15.41	6 5	10.00 7.50 72.00	6.09 1.94 8.19	-	+	0.156 0.085 0.139	5 2 5	43.50 15.00 40.00	20.18 2.50 15.41	5	8.75 7.50 70.50	4.86 1.94 8.15	4 -		0.185 0.085 0.156	5 2 5	20.00 8.75 20.00	20.00 8.75 7.91	5	6.67 1.50 0.00	4.82 1.00 0.00	-	-	0.643 0.366 0.035
Habitat Mean		•	33.00	12.60		29.83	5.40		+			32.83	12.70		28.93	5.0		4			16.27	12,23		2.73	1.93	n 1	-	0.033
Fisher's Stouffer's		Power Power				r-50% r-50%	0.425	P-va P-va	lue lue	0.072	Power Power				r-50% r-50%	0.846	P-va P-va		0.081 0.667	Power Power				r-50% r-50%				0.033 0.010

x At least one site pair p-value < 0.130 in opposite direction of overall tests.
y Direction of difference between habital means is different than direction of overall tests.
z Only one site pair.

Juvenile Fucus gardneri (P) (<= 2cm) Adult Fucus gardneri (P) (> 2cm) Total Fucus gardneri (P) CV D P N С ٥ SR CV D P CV D N C P C SE Site Pair Mvd N 0.545 15.48 0.433 1.00 0.50 0.50 33.50 0.457 14.1C/14.1 20.00 14.64 34.00 15.38 - - 0.363 1.25 1.25 0.00 0.00 - + 0.053 - + 0.044 19.17 10.60 0.00 ሰ በሰ 10.40 0.00 0.00 20.42 14.2C/14.2 0.00 0.00 0.00 0.00 - 0 1.000 - + 0.440 23.00 18.41 6 7.08 6.14 - + 0.440 23.00 18.41 7.08 6.14 62762C/50983 0.17 0.17 0.77 13.53 7.20 0.63 20.40 14.43 7.17 14.47 13.70 Habitat Means 21.13 0.115 P-value 0.286 Power-50% Power-50% --- P-value 0.095 Power 0.061 --- P-value 0.082 Power-50% Power Fisher's Power 0,117 P-value 0.333 0.371 P-value 0.150 Power 0.066 Power-50% Power-50% 0.357 P-value 0.142 Power 0.154 0.190 Power-50% Stouffer's Power - o 1.000 - + 0.570 0.00 0.00 0.00 0.00 9.35 34.17 17.35 6 21.67 0.570 34.17 17.35 6 21.67 9 35 14.10/14.1 - - 0.363 - + 0.004 0.00 0.00 0.42 0.42 1 36 - + 0.004 55.50 15.64 2.08 55.50 15.64 6 2.50 1.58 1.88 - - 0.391 14.2C/14.2 - - 0.521 0.00 0.00 1.88 19.91 19.42 - - 0.464 32.08 7.84 4 40.63 32.08 7.84 4 42.50 62762C/50983 2 0.77 0.77 21.47 10.23 0.00 0.00 13.60 40.60 10.13 40.60 13.60 22.23 Habitat Means --- P-value 0.234 Power-50% --- P-value 0.016 Power Power-50% --- P-value 0.018 Power Power-50% Fisher's Power --- P-value 0.148 0.612 P-value 0.344 Power ---Power-50% Power-50% 0.646 P-value 0.379 Power 0.357 0.337 Power-50% Stouffer's Power 0.00 0.42 - - 0.363 0.271 0.00 6 0.42 15.56 6 0.85 23.50 1.25 1.67 0.83 0.312 23.50 15.56 6 14.1C/14.1 0.00 - o 1.000 0.00 n no 6.00 2.57 - + 0.839 0.00 5 - + 0.839 6.25 6.25 2.57 14.2C/14.2 6.25 6.25 5 6.00 0.00 0.00 - o 1.000 0.00 5 0.028 0.00 8.19 - -8.19 - - 0.028 20.00 17.61 5 70.50 62762C/50983 3 5 20.00 17.61 5 70.50 0.00 0.00 0.3 0.13 25.93 3.90 16.60 13.17 13.17 26.07 3.87 16.60 Habitat Means --- P-value 0.403 Power-50% 0.260 P-value 0.450xy Power Power-50% 0.068 0.251 P-value 0.483xy Power 0.085 Power-50% Fisher's Power --- Pavalue 0.398 0.366 P-value 0.950 ---Power-50% 0,359 P-value 0.953 0.011 Power-50% Power 0.013 Power-50% Power

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habital means is different than direction of overall tests.
z Unly one site pair.</pre>

Table C-5.381, Page 1, December 15, 1994

Table C-5.381, Algal Percent Cover, Phaeophyta, Cook Inlet/Renai, Sheltered Rocky, June 1991, Overstory removed August 1990, (Continued.)

				Pu	cus St	ipes (P)	(a)					1	etalo:	nia/P	unctaria	(AE) (b)			М	rpholo	gical G	roup;	Coarse 1	/ilamen	nto	s Bro	enw
Site Pair	Mvd	N	С	SE	N	0	ge	cv	D	P	N	С	SE	N	0	8E	CV I	D	P	N	c	SE	N	0	SE		CV D	P
14.1C/14.1 14.2C/14.2 62762C/50983	1 1 1 1	6	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00		o	1.000 1.000 1.000	5 6 5	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00		0	1.000 1.000 1.000	5 6 5	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00	0	- 0 - 0	1.000 1.000 1.000
Habitat Mean	ns		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	c	0			0.00	0.00)	0.00	0.00	0	0	
Fisher's Stouffer's		Power Power			Power Power	-50% -50%				0.655 0.500	Power Power				r-50% r-50%		P-value P-value		0.655 0.500	Power Power				er-50% er-50%				0.655 0.500
14,1C/14.1 14,2C/14.2 62762C/50983	2 2 3 2	5	0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 0.42 0.00	0.00 0.42 0.00	-	-	1.000 0.363 1.000	6 5 6	0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 0.00 0.00	0.00 0.00 0.00	- c	С	1.000 1.000 1.000	6 5 6	1.25 0.00 0.00	1.25 0.00 0.00	6	0.00 0.00 0.00	0.00 0.00 0.00	0	- o	0.363 1.000 1.000
Habitat Mean	28		0.00	0.00		0.13	0.13		-			0.00	0.00		0.00	0.00	c	a			0.43	0.43		0.00	0.00	0	+	
Fisher's Stouffer's		Power Power			Power Power	-50% -50%				0.403 0.398	Power Power				r-50% r-50%		P-value P-value			Power Power				er-50% er-50%				0.403 0.398
14.1C/14.1 14.2C/14.2 62762C/50983	3		0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-		1.000 1.000 1.000	5 2 5	0.00 0.00 0.00	0.00 0.00 0.00	5	0.42 0.00 0.00	0.42 0.00 0.00	c	Э	0.363 1.000 1.000	5 2 5	0.50 0.00 0.00	0.50 0.00 0.00	5	1.25 0.00 0.00	1.25 0.00 0.00	ō	- 0	0.810 1.000 1.000
Habitat Mean	18		0.00	0.00		0.00	0.00		0			0.00	0.00		0.13	0.13	-	-			0.17	0.17		0.43	0.43	3	-	
Fisher's Stouffer's		Power Power			Power Power					0.655 0.500	Power Power				r-50% r-50%		P-value P-value			Power Power				er-50%				0.599 0.473

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

Table C-5.38), Page 3, December 15, 1994

				Ana	lipus	japonicu	g (P)					My	lophy	cus/:	Scytosiph) (A) no	a)			1	Crpholo	gical (Group:	Fine F	ilament	олв	Brown	78
Site Pair	Mvd	N	С	SE	N	0	8E	CV	Þ	P	N	С	SE	N	0	SE	CA I	D	P	N	С	ge	N	0	SE	(CV D	Þ
14.1C/14.1 14.2C/14.2 62762C/50983	1	5 6 5	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00		0	1.000 1.000 1.000	5 6 5	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	- c	0	1.000 1.000 1.000	5 6 5	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00)	- 0	1.000 1.000 1.000
Habitat Means	53		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	c	0			0.00	0.00		0.00	0.00	0	0	
Fisher's Stouffer's		ower			Power Power			-val		0.655 0.500	Power Power				er-50% er-50%		-value		0.655 0.500	Power Power			Power					0.655 0.500
	2 2 2	5	0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 0.00 0.00	0.00 0.00 0.00		0	1.000 1.000 1.000	6 5 6	1.25 0.00 0.00	1.25 0.00 0.00	6	0.00 0.00 0.00	0.00 0.00 0.00	- + - 0	0	0.363 1.000 1.000	6 5 6	0.00 0.00 0.00	0.00 0.00	6	0.00 0.00 0.00	0.00 0.00 0.00	0	- 0	1.000 1.000 1.000
Habitat Means	\$		0.00	0.00		0.00	0.00		٥			0.43	0.13		0.00	0.00	4	+			0.00	0.00		0.00	0.00)	٥	
Fisher's Stouffer's		ower			Power Power					0.655 0.500	Power Power				r-50% r-50%		-value -value		0.403 0.398	Power Power			Power Power					0.655 0.500
14.1C/14.1 14.2C/14.2 62762C/50983	3	5 2 5	0.00 0.00 0.00	0.00 0.00 0.00	5	1.25 0.00 0.00	1.25 0.00 0.00		0	0.363 1.000 1.000	5 2 5	0.50 0.00 0.00	0.50 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	- + - c	0	0.374 1.000 1.000	5 2 5	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 1.50	0.00 0.00 1.50	0	- 0	1.000 1.000 0.374
Habitat Means	8		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 Stouffer's		ower			Power Power					0.403 0.398	Power Power				r-50% r-50%		-value -value			Power Power			Power Power					0.409 0.208

⁽a) Genera not separated.

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

 $[\]times$ At least one site pair p value < 0.100 in opposite direction of overall tests. y Direction of difference between babitat means is different than direction of overall tests. 2 Only one site pair.

Table C-5.381, Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Overstory removed August 1990. (Continued.)

			Pir	a Fil	ament	ous Brown	s (AE)	(b)				Morph	ologic	al G	roup: Sa	ccate B	COMILE	ı				Leathe	sia/C	colpomenia	(A) (a	ι)		
Site Pair	Mvd	N	c	SE	N	0	SE	cv	D	P	N	С	SE	N	0	SE	CV	D	P	И	c	SE	N	0	SE	(CV D	P
14.1C/14.1 14.2C/14.2 62762C/50983	1 1 3 1	6	0.00	0.00	5	0.00 0.00 0.00	0.00	-	0	1.000 1.000 1.000	5 6 5	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00	-		1.000 1.000 1.000	5 6 5	0.00 0.00 0.00	0.00 0.00 0.00	5 6	0.00 0.00 0.00	0.00 0.00 0.00)	- 0	1.000 1.000 1.000
Habitat Mean			0.00	0.00	1	0.00	0.00		0			0.00	0.00	_	0.00	0.00		0	0.655	Power	0.00	0.00		0.00 er-50%	0.00		o value	0.655
Fisher's Stouffer's		Power Power				er-50% er-50%		P-val P-val		0.655 0.500	Power Power				r-50% r-50%		P- va l P-val		0.500	Power				er-50%		P-1	value	0.500
4.1C/14.1 4.2C/14.2 52762C/50983	2	6 5 6	0.00	0.00	6	0.00 0.00 0.00	0.00 0.00 0.00	-	ō	1.000 1.000 1.000	6 5 6	0.00 0.00 0.00	0.00 0.00 0.00	б	0.00 0.00 0.00	0.00 0.00 0.00	-			6 5 6	0.00	0.00 0.00 0.00	6	0.00 0.00 0.00	0.00 0.00 0.00)	- D	1.000 1.000 1.000
labitat Mean			0.00	0.00)	0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00			
Fisher's Stouffer's	s	Power Power				er-50% er-50%				0.655	Power Power				r-50% r-50%		P-val P-val		0.655 0.500	Power Power				er-50% er-50%				0.655
4.1C/14.1 4.2C/14.2 52762C/50983	3	5 2	0.00 0.00 0.00	0.00	5	0.00 0.00 1.50	0.00 0.00 1.50	-	0	1.000 1.000 0.374	5 2 5	0.00 0.00 0.00	0.00 0.00 0.00	5	0,00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	5 2 5	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00	0	- 0	1.000
Habitat Mean		-	0.00	0.00		0.50	0.50		-			0.00	0.00		0.00	0.00		0			0.00	0.00	>	0.00	0.00		0	
Fisher's		Power				er-50%				0.409	Powe≃ Powe≃				er-50% r-50%		P-val P-val		0.655 0.500	Power Power				er-50% er-50%				0.655 0.500

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

Ralfsia/Petroderma (P) (a) Morphological Group: Crustose Browns Soranthera ulvoidea (A) SE CV D P C ٥ CV D P CV D P С o SE SE Site Pair Mvd N С SE N a 0.00 1.000 0.00 0.00 0.00 - 0 1.000 0.00 0.00 - 0 .000 0.00 0.00 0.00 0.00 0.00 0 14.1C/14.1 0.00 5 0.00 0.00 - 0 1.000 1.000 0.00 0.00 0.00 0.00 0 0.00 0 .000 0.00 n nn - 5 0.00 14,2C/14.2 0.00 0.00 - o 1.000 0.00 - 0 1.000 0.00 0.00 0.00 0.00 0.00 1.000 0.00 5 0.00 0.00 0.00 0.00 0 62762C/50983 1 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 Habitat Means Power-50% --- P-value 0.655 --- P-value 0.655 Power-50% Power ------ P-value 0.655 Power Power-50% ---Fisher's Power --- P-value 0.500 Power-50% Power-50% P-value 0.500 Power ------Power-50% --- P-value 0.500 Power Stouffer's Power ---0.00 1.000 ก กก 0.00 - D 0.00 0.00 0 1.000 0.00 6 0.00 6 0.00 - 0 1.000 0.00 0.00 14.1C/14.1 0.00 0.00 6 0.00 0.00 - 0 1.000 0.00 0.00 0.00 0.00 O 1.000 0.00 0.00 0.00 - 0 1.000 0.00 14.2C/14.2 0.00 0.00 - 0 1,000 0.00 4 0.00 0.00 1.000 0.00 0.00 0.00 0 0.00 0.00 0.00 0.00 - o 1.000 0.00 62762C/50983 2 6 0.00 4 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 Habitat Means Power-50% --- P-value 0.655 Power-50% --- P-value 0.655 Power --- P-value 0.655 Power-50% Power Fisher's Power ---Power-50% --- P-value 0.500 Power-50% P-value 0.500 Power ---Power-50% --- P-value 0.500 Power Stouffer's Power ---0.00 0.00 0.00 - 0 0.00 - o 1.000 0 00 6 0.00 0.00 0.00 0.00 - o 1.000 0.00 0.00 6 0.00 14.1C/14.1 0.00 1.000 0.00 0.00 - 0 0.00 0.00 0.00 0.00 0.00 0 1.000 0.00 0 1.000 0.00 0.00 0.00 - 0 1.000 14.2C/14.2 0.00 5 0.00 0.00 0.00 0.00 O 1.000 0.00 0.00 0.00 0.00 5 0.00 0.00 - o 1.000 62762C/50983 3 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 Habitat Means Power-50% --- P-value 0.655 Power-50% --- P-value 0.655 Power --- P-value 0.655 Power-50% Power Fisher's Power ---Power-50% --- P-value 0.500 Power-50% --- P-value 0.500 Power Dowor-509 --- Perralue 0.500 Power

Table C-5.381. Page 5. December 15, 1994

⁽a) Genera not separated. \times 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. y Direction of Garage z Only one site pair.

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	Rhodoph	yta				Mor	pholog	ical	Group:	Bladed I	Reds					Bangia	sp. (A)	2)		
Site Pair M	ivd	N	С	SE	N	0	SE	ÇV D	P	N	С	Se	N	0	SE	CV D	P	N	c	SE	N	0	SE	CV D	P
14.1C/14.1 14.2C/14.2 62762C/50983		5 6 5	1.50 45.00 1.50	1.00 16.11 1.50	5	17.50 4.50 1.67	11.18 2.78 1.67	- +	0.032	5 6 5	0.00 37,92 0.50	0.00 16.75 0.50	5	2.50 1.50 0.00	2.50 1.00 0.00	- +	0.374 0.069 0.374	5 6 5	0.00 0.83 0.00	0.00 0.83 0.00	5 6	0.00 0.00 0.00	0.00 0.00 0.00		1.000 0.363 1.000
Habitat Means	s		16.00	6.20		7.90	5.23	-			12.80	5.77		1.33	1.17	+			0.27	0.27		0.00	0.00		
Fisher's Stouffer's		Power Power	0.047		Power		0.480		0,333 _{*y} 0.565	Power Power	0.104			er-50% er-50%		P-value P-value		Power Power			Power-			P-value P-value	
	2		28.33 31.50 23.33	8.31 10.36 10.87	6	32.50 20.83 0.63	6,19 8.77 0.63	- +	0.556 0.530 0.098	6 5 6	18.00 2.92	0.85 6.86 1.36	6	10.83 9.17 0.00	4.46 5.03 0.00	- +	0.044 0.307 0.078	6 5 6	0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 0.00 0.00	0.00	- 0	1.000 1.000 1.000
Habitat Means	s		27.70	9.87		17.97	5.20	+			7.40	3.07		6.67	3.17	, +			0.00	0.00	1	0.00	0.00	o	
Fisher's Stouffer's		Power Power	0.453		Power				0.156 0.064	Power Power				er-50% er-50%		P-value P-value		Power Power			Power Power			P-value P-value	
	3	5 2 5	31.00 78.75 16.50	14.29 1.25 4.91	5	55.83 27.50 3.50	8.75 12.07 2.18	- +	0.130 0.065 0.029	5 2 5	6.00 43.75 10.00	3.02 26.25 3.26	5	27.08 14.50 2.50	6.24 8.42 1.94	- +	0.194	5 2 5	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00	- 0	1.000 1.000 1.000
Habitat Means	s		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	
Fisher's Stouffer's		Power Power			Power				0.017 0.018	Power Power				er-50% er-50%		P-value P-value		Power Power			Power Power			P-value P-value	

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

z Uniy one site pair.

Phycodrys riggii (A) Palmaria app. (A) Gigartinaceae Group (P) (a) ¢ SE 0 CV D P 8E CV D P N 0 SE CV D P С ЯE ٥ Site Pair Mvd N C ЯB 1.000 1.000 0.00 0.00 0.00 0.00 - 0 0.00 0.00 0.0 0.00 0.00 2.50 2.50 0.374 0.00 0 14.1C/14.1 0.00 0.00 0 1.000 0.00 0.00 0.00 0.00 - 0 1.000 0.00 0.42 0.00 0.00 + 0.363 0.00 0.42 14.2C/14.2 - c 1.000 0.00 0.00 6 0.00 0.00 0.00 0.00 6 0.00 0.00 0 62762C/50983 1 0.50 0.50 0.00 0.00 - + 0.374 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.83 Habitat Means 0.30 0.30 0.83 Power-50% --- P-value 0.655 Power-50% --- P-value 0.655 Power --- P-value 0.305 y Power Power-50% Fisher's Power ---Power-50% --- P-value 0.500 Power-50% --- P-value 0.500 Power. --- P-value 0.206 Power Stouffer's ---Power-50% Power 0.00 0.00 0.00 0.00 - o 1.000 - 0 1.000 б 0.00 0.00 0.00 0.00 7.08 3.62 - - 0.086 14.1C/14.1 0.83 0.83 6 0.00 0.00 0.00 0.00 - 0 1.000 - 0 0.757 1.00 1.00 6 0.00 0.00 - - 0.374 6 2.50 2.50 14.2C/14.2 2 2.50 1 94 F 0.00 0.00 0.00 0.00 - 0 1.000 2.08 1.36 4 0.00 0.00 - . 0.178 0.00 - + 0.363 62762C/50983 2 0.83 0.83 4 0.00 0.00 0.00 0.00 0.00 0.00 0 1.03 0.80 0.00 3.20 2.03 1.37 1.17 Habitat Means --- P-value 0.655 0.102 P-value 0.143 Power-50% 0.101 Power-50% Power 0.045 Power-50% 0.129 P-value 0.266 Power Fisher's Power P-value 0.068 ---Power-50% --- P-value 0.500 Power-50% 0.022 Power-50% 0.280 P-value 0.667 Power Stouffer's Power 0.685 0.00 0.00 6 0.00 0.00 - 0 1.000 1 50 1.00 0.83 0.53 - - 0.073 6 14.1C/14.1 3 5 0.50 0.50 6 12.92 5.90 0.00 - 0 1.000 3.50 0.374 0.00 0.00 5 0.00 - - 0.329 0.00 0.00 3.50 8.75 3.75 4.50 3.39 14.2C/14.2 - 0 1.000 - + 0.069 0.00 3.20 2.00 2.00 0.00 0.00 0.00 9.50 5 - - 0.374 62762C/50983 3 5 0.00 0.00 5 0.50 0.50 0.00 0.00 0.00 0.00 0 3.67 1.40 2.10 2.00 5.97 3.27 Habitat Means 3.10 1.43 --- P-value 0.655 Power-50% 0.316 P-value 0.159 Power 0.367 P-value 0.112 Power 0.285 Power-50% Fisher's Power 0.132 Power-50% Power-50% --- P-value 0.500 Power-50% --- P-value 0.064 Power 0.352 P-value 0.148 Power Stouffer's Power 0.122 Power-50%

(a) Chondrus, Iridaea, Mastocarpus and Rhodoglossum

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 5.382, Page 1, December 15, 1994

Table C-5.382. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Overstory removed August 1990. (Continued.)

			1	Porphyr	a sp.	(A)					1	okidad	lendr	on kurile	nsis (A))				Morpholog	ical G	roup:	Coarse	Filamer	nto	us Red	ls
Site Pair Mv	rd N	С	\$E	N	0	SE	cv	D	P	N	С	SE	N	0	SE	CV	D	P	N	С	SE	Ŋ	0	SE	C	V D	P
14.1C/14.1 1 14.2C/14.2 1 62762C/50983 1	. 5 . 6	0.00 36.67 0.00	0.00 16.35 0.00	5	0.00 1.50 0.00	0.00 1.00 0.00	-	+	1.000 0.088 1.000	5 6 5	0.00 0.00 0.00	0.00 0.00 0.00	5 5 6	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	5 6 5	0.50 7.08 1.00	0.50 3.50 1.00	5	7.50 1.50 1.67	3.54 1.50 1.67)	 	0.043 0.250 0.908
Habitat Means		12,23	5.47		0.50	0.33		+			0.00	0.00		0.00	0.00		0			2.87	1.67		3.57	2.23	l	-	
Fisher's Stouffer's	Powe			Power-					0.172 0.313	Power Power				r-50% r-50%		P-val P-val		0.655 0.500	Power Power	0.184 0.069			r-50% r-50%	0.383	P-1		0.145 0.361
	2 6 2 5 2 6	0.42 14.50 0.00	0.42 7.52 0.00	6	3.75 6.67 0.00	2.12 4.82 0.00	-		0.160 0.444 1.000	6 5 6	0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 0.00 0.00	0.00 0.00	-	o	1.000 1.000 1.000	6 5 6	4.58 11.00 14.17	3.19 6.00 11.27	6	14.17 11.25 0.63	2.93 5.94 0.63	l		0.020 0.829 0.304
Habitat Means		4.97	2.63		3.50	2.30		-			0.00	0.00		0.00	0.00		0			9.93	6.83		8.70	3.13	3	-	
Fisher's Stouffer's	Powe			Power-			P-val P-val		0.327 y 0.428	Power Power				r-50% r-50%				0.655 0.500	Power Power	0.048			r-50% r-50%				0.079 y 0.585
14.1C/14.1 3 14.2C/14.2 3 62762C/50983 3	3 5 3 2 3 5	4.00 32.50 0.50	1.87 32.50 0.50	5	5.42 6.50 0.00	3.44 5.28 0.00	-	4	0.889 0.371 0.374	5 2 5	0.00 2.50 0.00	0.00 2.50 0.00	5	7.92 0.00 0.00	4.85 0.00 0.00	-	-	0.105 0.500 1.000	5 2 5	6.50 35.00 4.00	5.89 25.00 2.03	5 5	20.00 6.50 0.00	6.22 3.32 0.00)	- +	0.071 0.107 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	7	1	
Fisher's Stouffer's	Pow	- :		Power-					0.246	Power Power	0.010			r-50% r-50%				0.249 0.394	Power Power				r-50% r-50%				0.058× 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 by different than direction of overall tests. only one site pair.

Endocladia muricata (P) Cryptosiphonia woodii (A) Articulate Coralline Algae (A) SE CV D c SE O P SE CV D P 9R 0 O SE CV D ₽ С С SE N Site Pair Mvd N - - 0.374 0.50 0.00 0.00 - 0 1.000 0.00 0.00 0.50 0.00 0 1.000 0.00 0.00 0.00 0.00 0.00 5 14.1C/14.1 1.50 1.50 - . 0.267 0.00 0.00 Q 1.000 6.25 3.08 0.00 0.00 0 1.000 0.00 0.00 0.00 14.2C/14.2 0.00 0.00 - - 0.374 0.00 0.00 0 1 00 1.00 0.00 0.00 0.00 0.00 0.00 - 0 1,000 0.00 62762C/50983 1 0.00 0.67 2 43 1.37 0.67 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 Habitat Means 0.094 Power-50% 0.118 P-value 0.253 Power-50% --- P-value 0.655 Power --- P-value 0.655 Power Power-50% Fisher's Power Power-50% 0.148 P-value 0.190 Power-50% --- P-value 0.500 Power 0.065 Power-50% --- P-value 0.500 Power Stouffer's Power 2.08 3.75 2.39 2 08 0.00 1.67 0.363 6 0.00 - o 1.000 0.00 0.00 0.00 0.00 14.1C/14.1 6 6.14 7.50 6.55 9.50 0.50 0.50 6 0.00 0.00 - + 0.374 6 - o 1.000 0.00 0.00 0.00 14.2C/14.2 0.00 - o 1.000 0.00 0.00 0.42 0.42 4 0.00 0.00 - + 0.363 0.00 4 - o 1.000 0.00 0.00 0.00 62762C/50983 2 6 0.00 3.87 2.73 3,77 3.00 0.30 0.30 0.57 0.57 0.00 0.00 0.00 0.00 O Habitat Means --- P-value 0.306 y Power 0.016 Power-50% 0.081 P-value 0.502 y Power-50% --- P-value 0.655 ---Power-50% Power Fisher's Power 0.020 Power-50% 0.111 P-value 0.448 Power-50% --- P-value 0.204 Power --- P-value 0.500 Power Power-50% Stouffer's Power 0.00 0.83 0.83 0.00 2.45 - - 0.221 0.00 - o 1.000 0.00 0.00 6 2.92 6 0.00 14.1C/14.1 0.00 0.00 5.00 5.00 0.00 0.00 - + 0.500 - - 0.374 0.00 0.00 2.00 2.00 - + 0.500 1.25 1.25 0.00 0.00 14.2C/14.2 - 0 1.000 0.00 0.00 0.00 0.00 0.00 0.00 5 0.00 0.00 - o 1.000 - 0 1.000 62762C/50983 3 0.00 0.00 0.00 0.00 1.67 1.67 0.27 0.27 1.50 0.00 0.00 0.00 1.63 0.43 0.43 Habitat Means Power-50% --- P-value 0.497 y --- P-value 0.165 Power-50% Power --- P-value 0.476 Power 0.013 Power-50% Fisher's Power ---Power-50% --- P-value 0.473 --- P-value 0.273 Power 0.029 Power-50% --- P-value 0.424 Power Power-50% Stouffer's Power ---

Table C-5.182. Page 3. December 15, 1994

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

Table C-5.382, Algal Percent Cover. Rhodophyta. Cook Inlet/Renai. Sheltered Rocky, June 1991. Overstory removed August 1990. (Continued.)

			Glo	iope1t	is furcat	a (A)						Micro	clad	ia boreal	(A) BŁ						Neorhod	omela	/Rhodome	1a (P) ((a)		
Site Pair M	tvd N	С	SE	N	0	SE	ÇV	D	P	N	e	SE	N	0	SE	ÇV	D	P	N	С	SE	N	0	SE		ĊV D	P
	1 5 1 6 1 5	0.00 0.83 0.00	0.00 0.83 0.00	5	7.00 0.00 1.67	3.74 0.00 1.67	- - -	+	0,090 0.363 0.363	5 6 5	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-		1.000 1.000 1.000	5 6 5	0.50 0.00 0.00	0.50 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	0		0.374 1.000 1.000
Habitat Means	3	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	0	-	
Fisher's Stouffer's	Power Power	0.112 0.086		Power Power	r-50% r-50%				0.124 0.145	Power Power				r~50% r-50%		P-valu P-valu		0.655 0.500	Power Power				r-50% r-50%			value value	0.409
	2 6 2 5 2 6	1.25 1.00 0.00	0.56 0.61 0.00	6	7.08 3.75 0.63	2.36 1.68 0.63	-	-	0.046 0.236 0.391	6 5 6	0.00 0.00 0.00	0.00	6	0.00 0.00 0.00	0.00 0.00 0.00	-	Q	1.000 1.000 1.000	6 5 6	0.83 0.00 11.67	0.53 0.00 11.67	6	0.00 0.00 0.00	0.00 0.00 0.00	0	- 0	0.175 1.000 0.363
Habitat Means	3	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	0	+	
Fisher's Stouffer's	Power Power				r-50% r-50%				0.020 0.045	Power Power				r-50% r-50%		P-valu P-valu		0.655 0.500	Power Power	0.1			r-50% r-50%			value value	0.139 0.111
	3 5 3 2 3 5	0.00 0.00 0.00	0.00 0.00 0.00	5	2.08 1.00 0.00	2.08 1.00 0.00	-	-	0.363 0.374 1.000	5 2 5	0.00 0.00 0.00	0.00 0.00 0.00	5	0.42 0.00 0.00	0.42 0.00 0.00	-	00	0.363 1.000 1.000	5 2 5	0.50 0.00 1.00	0.50 0.00 0.61	5	0.00 0.00 0.00	0.00 0.00 0.00	0	- 0	0.374 1.000 0.178
Habitat Means	3	0.00	0.00		1.03	1,03		-			0.00	0.00		0.13	0.13		-			0.50	0.37		0.00	0.00	0		
Fisher's Stouffer's	Power Power	-			r-50% r-50%		P-valu P-valu		0.227 0.304	Power Power				r-50% r-50%		P-valu P-valu		0.403 0.398	Power Power	0,1	11 		r-50% r-50%				0.144 0.069

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

Table C 5.362. Page 5. December 15, 1994

			Ođor	thali	a flocco	sa (P)						Pt110	ta/Ne	optilota	(P) (b)					Moı	pholog	ical G	roup;	Saccate	Red	В	
Site Pair My	vd N	С	SE	N	•	SE	CA	D	P	N	c	SE	N	0	SE	cv	D	P	Ŋ	с	SE	N	0	SE	¢	V D	P
14.1C/14.1 1 14.2C/14.2 1 62762C/50983 1	1 5 1 6 1 5	0.00 0.00 0.00	0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	Q	1.000 1.000 1.000	5 6 5	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000	5 6 5	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	} :	- 0	1.000 1.000 1.000
Habitat Means		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer's	Power Power			Power					0.655	Power Power				r-50% r-50%		P-valı P-valı		0.655 0.500	Power Power			Power Power					0.655 0.500
14.1C/14.1 2 14.2C/14.2 2 62762C/50983 2	2 6 2 5 2 6	0.42 0.00 2.08	D.42 0.00 1.36	6	1.67 0.00 0.00	1,67 0.00 0.00	- - -	o	0.659 1.000 0.178	6 5 6	0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 5 6	0.00 0.00 4.58	0.00 0.00 3.06	6	0.83 0.00 0.00	0.83 0.00 0.00		- 0	0.363 1.000 0.180
Habitat Means		0.83	0.60		0.57	0.57		+			0.00	0.00		0.00	0.00		0			1.53	1.03		0.27	0.27		- 1	
Fisher's Stouffer's	Power Power			Power Power					0.318 0.134	Power Power				r-50% r-50%		P-valı P-valı		0.655 0.500	Power Power	0.008		Power Power					0.360 0.167
14.1C/14.1 14.2C/14.2 62762C/50983	3 5 3 2 3 5	5.50 28.75 2.50	4.90 28,75 1.58	5	7.08 1.50 0.00	6.60 1.50 0.00	-	-	0.979 0.188 0.181	5 2 5	0.50 0.00 0.50	0.50 0.00 0.50	5	6.67 2.00 0.00	3.86 2.00 0.00		-	0.197 0.374 0.374	5 2 5	2.00 0.00 1.50	1.22 0.00 1.00	5	1.67 0.50 1.00	0.83 0.50 1.00)		0.997 0.374 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 Stouffer's	Power Power			Power Power			P-val: P-val:		0.092 0.056	Power Power	0.021 0.021			r-50% r-50%				0.210 0.576	Power Power	0.027		Power Power					0.667 0.432

x At least one site pair p-value < 0.100 in opposite direction of overall twsts, y Direction of difference between habitat means is different than direction of overall tests. 2 Only one site pair.</p>

Table 0-5.382. 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.)

				Halosa	ecio	n glandii	orme	(A)					Ha	1овас	ccion spp.	(A)					Morpholo	ogical	Group	: Fine	Filamen	ıto,	ıs Redi	
Site Pair	Mvd	l N	¢	SE	N	0	SE		CV 1	P	N	c	SE	N	0	SE	cv	D	P	Ŋ	c	SE	N	0	SE		CV D	P
14.1C/14.1 14.2C/14.2 62762C/50983	1 1 1	6	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0	.00 .00 .00	- c	1.000	6	0.00 0.00 0.00	0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	5 6 5	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 00.00 00.0	0.0	0	- 0 - 0	1.000 1.000 1.000
Habitat Mean	s		0.00	0.00		0.00	0	.00	C	,		0.00	0.00		0.00	0.00		٥			0.00	0.00		0.00	0.00	0	٥	
Fisher's Stouffer's		Power Power				r-50% r-50%			-value		Power Power				er-50% er-50%		P-valı P-valı		0.655 0.500	Power Power				r-50% r-50%				0.655 0.500
14.1C/14.1 14.2C/14.2 62762C/50983	2 2	5	0.00 0.00 4.58	0.00 0.00 3.06	6	0.83 0.00 0.00	0	.83 .00 .00	- ·	1.000	6 5 6	0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 0.00 0.00	0.00 0.00 0.00	-	o	1.000 1.000 1.000	5 5	0.83 0.00 1.67	0.83 0.00 1.05	6	0.00 0.00 0.00	0.00	Ō	- 0	0.363 1.000 0,175
Habitat Mean	9		1.53	1.03		0.27	0	. 27				0.00	0.00		0.00	0.00		0			0.83	0.63		0.00	0.00	0		
Fisher's Stouffer's		Power Power	0.010 0.000			r-50% r-50%	0.016			0.360 0.167	Power Power				er-50%		P-valı P-valı		0.655 0.500	Power Power	0.160			r-50% r-50%				0.139
14.1C/14.1 14.2C/14.2 62762C/50983	3 3 3		2.00 0.00 1.50	1,22 0.00 1.00	5	1.67 0.50 1.00	0.	.83 .50 .00		0.374	5 2 5	0.00 0.00 0.00	0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	5 2 5	1.50 0.00 1.00	1.00 0.00 0.61	5	0.00 3.00 0.00	0.00 3.00	0		0.186 0.374 0.178
Habitat Mean	s		1.17	0.73		1.07	0	.77	1			0.00	0.00		0.00	0.00		0			0.83	0.53		1.00	1.00	0		
Fisher's Stouffer's		Power Power	0.029 0.020			r-50% r-50%	0.219			0.667 0.432	Power Power				er-50% er-50%				0.655 0.500	Power Power	0.186		Power	r-50% r-50%	0.209			0.125 y 0.087

x At least one site pair p-value < 0.100 in opposite direction of overall teams, y Direction of difference between habitat means is different than direction of overall hasts. Tooly one site pair.

Table C-5-382, Page 7, December 15, 1994

				Calli	thamn:	ion pikea	down (y)					Poly	sipho	nia/P	terosip	onia (A)	(a)				Mor	pholog	ical (Broup:	Crustose	R	eds	
Site Pair	Mvd	N	С	SE	N	٥	SE	ÇV	D	P	N	С	SE	N	0	SE	CV	D	P	N	c	SE	N		SE	_	CV D	P
	F-1 1-1 1-1	6	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	0 1	.000	5 6 5	0.00 0.00 0.00	0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	5 6 5	1.00 0.00 0.00	1.00 0.00 0.00	5	7.50 1.50 9.00	7.50 1.50 0.00	0		0.551 0.374 1.000
Habitat Mean	5		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.33	0.33		3.00	3.00	0	_	
Fisher's Stouffer's		Power Power				r-50% r-50%		P-valu P-valu			Power Power				er-50% er-50%				0.655 0.500	Power Power				r-50% r-50%				0.292 0.336
14.1C/14.1 14.2C/14.2 62762C/50983	2 2 2		0.42 0.00 0.00	0.42 0.00 0.00	6	0.00 0.00 0.00	0.00 0.00 0.00	-	0 1	0.363 000 000	6 5 6	0.42 0.00 1.67	0.42 0.00 1.05	6	0.00 0.00 0.00	0.00 0.00 0.00	-	0	0.363 1.000 0.175	6 5 6	21.67 2.50 0.00	9.35 1.94 0.00	6	6.67 0.42 0.00	4.17 0.42 0.00	2	- +	0.220 0.312 1.000
Habitat Means	ş		0.13	0.13		0.00	0.00		+			0.70	0.50		0.00	0.00		+			8.07	3.77		2.37	1.53	3	1	
Fisher's Stouffer's		Power Power			Power			P-valu P-valu			Power Power	0.161			er-50% er-50%				0.139 0.067	Power Power	0.183 0.238			r-50% r-50%				0.146 0.262
	3 3 3	2	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	0 1	.000	5 2 5	1.50 0.00 1.00	1.00 0.00 0.61	5	0.00 3.00 0.00	0.00 3.00 0.00	-	-	0.186 0.374 0.178	5 2 5	15.00 0.00 0.00	10.75 0.00 0.00	5	7.08 3.00 0.00	4.54 2.42 0.00	2		0.445 0.218 1,000
Habitat Means	s		0.00	0.00		0.00	0.00		0			0.83	0.53		1.00	1.00		+			5.00	3.60		3.37	2.30	0	_	
Fisher's Stouffer's		Power Power			Power			P-valu P-valu			Power Power	0.195			r-50% r-50%				0.125 у 0.087	Power Power	0.005			r-50% r-50%				0.388 y 0.447

(a) Genera hot separated.

 $[\]times$ At least one site pair p-value < 0.300 in opposite direction of overall tests. y Direction of difference between babitat evans is different than direction of overall tests. 2 only one site pair.

Table C-5.382, Algal Percent Cover. Rhodophyta. Cook Inlat/Kenai. Sheltered Rocky. June 1991. Overstory removed August 1990. (Contitued.)

			•	rusto	se Coz	ralline A	lgae (P)					Hil	denb	randia s). (P)							Petro	celis (F)			
Site Pair	Mvd	N	c	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	CV	D	P	N	c	SE	N	0	SE	CV	D	P
14.1C/14.1 14.2C/14.2 62762C/50983	1 1 3 1	5 6 5	0.00 0.00 0.00	0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	5 6 5	1.00 0.00 0.00	1.00 0.00 0.00	5	7.50 1.50 0.00	7.50 1.50 0.00	-	_	0.551 0.374 1.000	5 6 5	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000
Habitat Mean	ns		0.00	0.00		0.00	0.00		0			0.33	0.33		3.00	3.00		-			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power				c-50% c-50%		P-val P-val		0.655 0.500	Power Power				r-50%		P-valu P-valu		0,292 0.336	Power Power			Power	-50% -50%				0.655 0.500
14.1C/14.1 14.2C/14.2 62762C/50983	2	6 5 6	0.00 0.00 0.00	0.00	6	0.00 0.00 0.00	0.00 0.00 0.00	-	o	1.000 1.000 1.000	6 5 6	21,67 2.00 0.00	9.35 2.00 0.00	6	6.67 0.42 0.00	4.17 0.42 0.00	-	+	0.220 0.574 1.000	6 5 6	0.00 0.50 0.00	0.00 0.50 0.00	6	0.00 0.00 0.00	0.00 0.00 0.00	-	-	1.000 0.374 1.000
Habitat Mean	ns		0.00	0.00		0.00	0.00		0			7.90	3.80		2.37	1.53		,			0.17	0.17		0.00	0.00			
Fisher's Stouffer's		Power Power				r-50% r-50%				0.655 0.500	Power Power	0.117 0.141			r-50% r-50%		P-valu P-valu		0.217 0.305	Power Power				:~50% 50%				0.409
14.1C/14.1 14.2C/14.2 62762C/50983	3	-	0.00 0.00 0.00	0.00 0.00 0.00	5	0.42 0.00 0.00	0.42 0.00 0.00	-	0	0.363 1.000 1.000	5 2 5	14.50 0.00 0.00	10.26 0.00 0.00	5	6.67 0.50 0.00	4.64 0.50 0.00	-	-	0.379 0.374 1.000	5 2 5	0.50 0.00 0.00	0.50 0.00 0.00	5	0.00 2.50 0.00	0.00 2.50 0.00	-	-	0.374 0.374 1.000
Habitat Mean	r.s		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				r-50% r-50%				0.403 0.398	Power Power	0.001 0.004			r-50% r-50%		P-valu P-valu		0.523 y 0.499	Power Power			Power Power	r-50% r-50%				0.524 y 0.500

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

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.

					Act	iniidae								Bal	anomorph	a		_				Poly	placophor	a		
Site Pair	Mvd	N	С	SE	N	0	SE	CA	D	P	N	c	SE	N	0	SE	GA D	P	м	c	SE	N	0	SE	CA D	P
14.1C/14.1 14.2C/14.2 62762C/50983		5 6 5	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00		0	1.000 1.000 1.000	5 6 5	9.50 12.92 19.00	7.76 11.93 7.85	5	13.00 14.00 16.25	9.70 6.83 5.87		0.740	5 6 5	0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	- 0	1.000 1.000 1.000
Habitat Mean	s		0.00	0.00		0.00	0.00		0			13.80	9.20		14.43	7.47	-			0.00	0.00		0.00	0.00	0	
Fisher's Stouffer's		Power Power				r-50 % r-50 %		P-valu P-valu		0.655 0.500	Power Power	0.120 0.159			r-50% r-50%		P-value P-value		Power Power				r-50% r-50%		P-value P-value	
14.1C/14.1 14.2C/14.2 62762C/50983	2	6 5 6	0.83 0.00 0.00	0.83 0.00 0.00	6	0.00 0.00 0.00	0.00 0.00 0.00	-	0	0.363 1.000 1.000	б 5 6	19.58 5.50 9.58	9.45 3.74 6.04	6	7.92 22.50 24.37	4.30 10.29 14.16		0.241	6 5 6	0.00 00.0 00.0	0.00 0.00 0.00	6	0.00 0.00 0.00	0.00 0.00 0.00	- 0	1.000 1.000 1.000
Habitat Mean	ıs		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	
Fisher's Stouffer's	3	Power Power				r-50% r-50%		P-valu			Power Power	0.309 0.214			r-50% r-50%		P-value P-value	0.210 0.152	Power Power				r-50% r-50%		P-value P-value	
14.1C/14.1 14.2C/14.2 62762C/50983	3 3	2	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	0 1	1.000 1.000 1.000	5 2 5	9.50 2.50 22.50	5.56 2.50 16.66	5	2.92 26.50 8.00	2.92 14.13 5.56		0.339	5 2 5	00.00 00.0 00.0	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	- 0	1.000 1.000 1.000
Habitat Mean	ıs		0.00	0.00		0.00	0.00		0			11.50	8.27		12.47	7.53	+			0.00	0.00		0.00	0.00	٥	
Fisher's Stouffer's	;	Power Power			Power	r-50% r-50%		P-valu P-valu			Power Power	0.045 0.033			r-50% r-50%		P-value P-value		Power Power				r-50% r-50%		P-value P-value	

x At least one site pair p-value < 0.100 in opposite direction of overall tests.</p>
y Direction of difference bwi-wear habitat means is different than direction of overall tests.
nnly nne site pair.

Table C-5.383. Page 1. December 15, 1994

					Lot	ttiidae								M	ytilus						2	<i>fuc</i> ell	a lameli	osa		
Site Pair	Mvd	ı N	С	SE	N	0	SE	cv	D	P	N	С	SE	N	٥	SE	CA D	P	N	С	SE	N	0	SE	CV D	P
14.1C/14.1 14.2C/14.2 62762C/5098	1 1 2 1 2 1	5 6 5	0.00 0.00 0.50	0.00 0.00 0.50	5	0.50 0.00 0.00	0.50 0.00 0.00		0 1	0.374 000 0.374	5 6 5	0.50 0.00 2.50	0.50 0.00 1.58	5	0.00 0.50 0.00	0.00 0.50 0.00	- + 	0.374	6	0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	- 0	1.000 1.000 1.000
Habitat Mea	ins		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	
Fisher's Stouffer'	8	Power Power			Power Power			P-val			Power Power	0.074 0.052			:-50% :-50%		P-value P-value						r-50% r-50%		P-value P-value	
14.1C/14.1 14.2C/14.2 62762C/5098	2	6 5 6	0.42 0.00 0.00	0.42 0.00 0.00	6	0.00 0.42 0.00	0.00 0.42 0.00	-	- C	0.363 0.363 0.000	6 5 6	0.00 3.50 3.75	0.00 3.50 3.75	6	0.00 0.42 11.25	0.00 0.42 10.43	- + 	0.490	5	0.00 0.00 0.00	0.00 0.00	6	0.00 0.00 0.00	0.00 0.00 0.00	- o	1.000 1.000 1.000
Habitat Mea	ıns		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	
Fisher's Stouffer'	s	Power Power			Power Power			P-valu P-valu		0.519 y 0.500	Power Power	0.004			-50% -50%		?-value ?-value						r-50% r-50%		P-value P-value	
14.1C/14.1 14.2C/14.2 62762C/5098	3	2	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.50 0.00	0.00 0.50 0.00	-	- 0	.000 0.374 .000	5 2 5	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 1.00 0.00	0.00 1.00 0.00	- 0 	0.374	2	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	- 0	1.000 1.000 1.000
Habitat Mea	ins		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	
Fisher's Stouffer'		Power Power			Power Power		i	P-valu P-valu			Power Power			Power Power	r-50% r-50%		P-value P-value					Powe: Powe:	r-50% r-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 habital means we different than direction of overall tests. Only one site pair.

Table C-5.383. Algal Percent Cover. Invertebrates. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Overstory removed August 1990. (Continued.)

					Liti	torinidae								F	Porifera								c	nideria				
Site Pair	Mvd	N	c	SE	N	0	SE	ÇV	D	P	N	С	8E	N	0	SE	ÇV	D	P	Ŋ	¢	SE	N	٥	SE		CV D	P
14.1C/14.1 14.2C/14.2 62762C/50983	1 1 3 1	5 6 5	0.50 0.00 0.50	0.50 0.00 0.50	5	0.00 1.00 0.42	0.00 1.00 0.42	-	-	0.374 0.374 0.900	5 6 5	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00	-	0	1.000 1.000 1.000	5 6 5	0.00 0.00 0.00	0.00	5	0.00 0.00 0.00	0.00	0	- 0	1.000 1.000 1.000
Habitat Mean			0.33	0.33		0.47	0.47		+			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.0		c	
Fisher's Stouffer's		Power				r-50% r-50%				0.498 y 0.454	Power Power				er-50% er-50%		P-val P-val		0.655 0.500	Power Power				er-50% er-50%				0.655
14.1C/14.1 14.2C/14.2 62762C/50983	2	5	0.00 0.00 0.00	0.00	6	0.42 0.42 0.00	0.42 0.42 0.00	-	-	0.363 0.363 1.000	6 5 6	0.00 0.00 0.00	0.00	6	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 5 6	0.00	0.00 0.00 0.00	6	0.00 0.00 0.00	0.0	0	- 0 - 0	1.000 1.000 1.000
Habitat Mean			0.00	0.00		0.27	0.27		-			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.0	0	0	
Fisher's Stouffer's		Power				r-50% r-50%				0.223	Power Power				er-50% er-50%		P-val P-val		0.655 0.500	Power Power				er-50% er-50%				0.655 0.500
14.1C/14.1 14.2C/14.2 62762C/5098	3	5 2	0,00 0.00 0.00	0.00	5	0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	5 2 5	0.00 2.50 0.00	0.00 2.50 0.00	5	0.00 2.00 0.00	0.00 2.00 0.00	-	+	1.000 0.710 1.000	5 2 5	0.00 0.00 0.00	0.00	5	0.00 0.00 0.00	0.0	0	- 0	1.000 1.000 1.000
Habitat Mea		,	0.00	0.00		0.00	0.00)	0			0.83	0.83		0.67	0.67		+			0.00	0.00)	0.00	0.0	0	0	
Fisher's Stouffer'		Power Power				r-50% r-50%				0.655 0.500	Power Power				er-50% er-50%		P-val P-val		0.564 0.458	Power Power				er-50% er-50%				0.655

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

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.

					Rock								Oi	led Rock									Mud				
Site Pair	nag n	С	SE	N	0	SE	cv	D	P	N	С	SE	N	0	SE	CA	D	p	N	С	8E	N	0	SE	cv	D	P
14.1C/14.1 14.2C/14.2 62762C/509B3	1 5 1 6 3 1 5	68.00 20.00 43.00	18.45 15.23 17.79	5	33.50 69.50 74.58	10.62 12.85 10.15	<u> </u>		0.132 0.032 0.207	5 6 5	0.00 0.00 0.00	0.00 0.00 0.00	5	1.50 0.00 0.00	1.50 0.00 0.00	-	D	0.374 1.000 1.000	5 6 5	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000
Habitat Mean	15	43.67	17.17		59.20	11.23	3	-			0.00	0.00		0.50	0.50		-			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Pow Pow			Power Power					0.044 0.091	Power Power				r-50% r-50%				0.409	Power Power				-50% -50%				0.655 0.500
14.1C/14.1 14.2C/14.2 62762C/50983	2 6 2 5 3 2 6	14.58 4.00 27.92	7.26 2.03 11,28	6	36.25 50.42 21.25	10.60 14.10 9.21	-	-	0.138 0.027 0.559	6 5 6	0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000	6 5 6	0.00 0.00 0.00	0.00	6	0.00 0.42 0.00	0.00 0.42 0.00	-	-	1.000 0.363 1.000
Habitat Mean	ns	15.50	6.87		36.00	11.30)	-			0.00	0.00		0.00	0.00		0			0.00	0.00		0.13	0.13		-	
Fisher's Stouffer's	Pow Pow			Power Power					0.023 0.301	Power Power				r-50% r-50%				0.655 0.500	Power Power				-50% -50%				0.403 0.398
14.10/14.1 14.20/14.2 62762C/50983	3 5 3 2 3 3 5	13.00 1.25 15.00	11.76 1.25 6.47	5	2.92 26.00 14.00	1.98 13.93 8.5	-	-	0.453 0.250 0.910	5 2 5	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	Q	1,000 1.000 1.000	5 2 5	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000
Habitat Mean	18	9.77	6.53		14.30	8.1	7	-			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Pow Pow			Power Power		0.238			0.568 v 0.505	Power Power				er-50% er-50%				0.655 0.500	Power Power				80ē-50% r-50%	1			0.655

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

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					Sand								Shell	Fragment							_ Fi	lamen	tous Diam	OILB			
ite Pair 🖂		c	E	a)	٥	SE	CV	ם	Þ	N	С	SE	N	0	9E	cv	D	P	N	С	SE	N	0	SE	C	V D	P
14.1C/14.1 1 14.2C/14.2 1 62762C/50983 1	5 6 5	0.00 0.00 0.00	0.00	5	0.00 0.00 0.00	0.0	- 2		1.000 1.000 1.000	5 6 5	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	5 6 5	0.00 0.00 0.00	0.00	5	0.00 0.00 0.00	0.00 0.00 0.00		- 0	1.000 1.000 1.000
Habitat Means		0.00	0.00		0.00	0.0		٥			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
	Power			Power-					0.655 0.500	Power Power				r-50% r-50%				0.655 0.500	Power Power				r-50% r-50%				0.655 0.500
14.1C/14.1 2 14.2C/14.2 2 62762C/50983 2	6 5 6	0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 0.00 0.00	0.0	- (0	1.000 1.000 1.000	6 5 6	0.00 0.00 0.00	0.00 0.00 0.00	6	0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 5 6	0.00 0.00 0.00	0.00 0.00 0.00	6	0.00	0.00 0.00 0.00		- 0	1.000 1.000 1.000
Habitat Means		0.00	0.00		0.00	0.0)	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
	ower ower			Power Power					0.655 0.500	Power Power				r-50% r-50%				0.655 0.500	Power Power				r-50% r-50%				0.655 0.500
14.1C/14.1 3 14.2C/14.2 3 62762C/50933 3	2	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.0) –	0	1.000 1.000 1.000	5 2 5	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	5 2 5	0.00 0.00 0.00	0.00	5	0.00	0.00 0.00 0.00		- 0	1.000 1.000 1.000
Habitat Means		0.00	0.00		0.00	0.0)	0			0.00	0.00		0.00	0.00		Q			0.00	0.00		0.00	0.00		0	
	ower			Power-					0.655 0.500	Power Power				r-50% r-50%				0.655 0.500	Power Power				r-50% r-50%				0.655 0.500

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

Table C-5.384. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Sheltered Rocky. June 1991. Overstory removed August 1990. (Continued.)

				Sand	and Mud								Total	Substr	ite												
Site Pair My	vd N	С	SE	N	0	SE	CV	D	P	N	C	SE	N	0	SE	ĊΨ	D	P	N	С	SE	N	0	SE	¢۷	D	P
	1 5 1 6 1 5	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00		0	1.000 1.000 1.000	5 6 5	68.00 20.00 43.00	18.45 15.23 17.79	5	35.00 69.50 74.58	11.94 12.85 10.15	-	-	0.154 0.032 0.207			-						
Habitat Means		0.00	0.00		0.00	0.00		o			43.67	17.17		59.70	11.67		-										
Fisher's Stouffer's	Power Power			Power Power					0.655 0.500	Power Power				r-50% r-50%				0.044 0.087	Power Power				r-50% r-50%		P-val P-val		
	2 6 2 5 2 6	0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 0.42 0.00	0.00 0.42 0.00	-	-	1.000 0.363 1,000	6 5 6	14.58 4.00 27.92	7.26 2.03 11.28	6	36.25 50.83 21.25	10.60 14.05 9.21	-	-	0.138 0.026 0.559									
Habitat Means		0.00	0.00		0.13	0.13		-			15.50	6.87		36.13	11.30)	-										
Fisher's Stouffer's	Power Power			Power Power					0.403 0.398	Power Power	0.667			r-50% r-50%	0.742			0.023	Power Power				r-50% r-50%		P-val P-val		
	3 5 3 2 3 5	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	5 2 5	13.00 1.25 15.00	11.76 1.25 6.47	5	2.92 26.00 14.00	1.98 13.93 8.57	-	-	0.453 0.250 0.910									
Habitat Means		0.00	0.00		0.00	0.00		0			9.77	6.53		14.30	8.17	•	-										
Fisher's Stouffer's	Power Power			Power Power					0.655 0.500	Power Power	0.025 0.006			r-50% r-50%	0.233 0.306			0.568 y 0.505	Power Power				r-50% r-50%		P-val P-val		

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

Table C-5.385. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Renai. 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.

				Algai	Dive	sity Ind	ex (a)						Alga	l Tau	xa Richnes	se (5)						Tota	al Algae			
Site Pair M	wd N		С	SE	N	0	SE	cv	p	P	N	С	SE	N	0	ge	CV D	P	N	С	SE	N	0	SE	CA I	P
50389C/50389 51091C/51091 62802C/50226	1 1		0.00 0.00 0.00	0.00	0	0.00	0.00	-		1.000	2 1 2	0.00 0.00 0.00	0.00	0	0.00	0.00	-		2 1 2	0.00 0.00 0.00	0.00	0	0.00	0.00	- c	1.000
Habitat Means			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	0			0.00	0.00		0.00	0.00	c	
Fisher's Stouffer's	Pos				Power Power			P-valu P-valu		0.597 0.500	Power Power				er-50% er-50%		-value -value	0.597 0.500	Power Power			Power Power			P-value	0.597 0.500
50389C/50389 : 51091C/51091 : 62802C/50226 :	2 2		0.00	0.00	ō	0.00	0.00	-			0 2 0	0.00	0.00	ō	0.25	0.25	-		0 2 0	0.00	0.00	ō	1.25	1.25 0.00	-	
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.13	0,13				0.00	0.00		0.65	0.65		
Fisher's Stouffer's		wer			Power Power			P-valı P-valı			Power Power				er-50% er-50%		e-value e-value		Power Power			Power Power			P-value P-value	
50389C/50389 51091C/51091 62802C/50226	3 1		0.00 0.00 0.03	0.03	ō	0.07 0,15	0.07 0.15	_	-	0.548	1 1 3	0.00 0.00 1.00	0.58	0	0.75 1.00	0.48	-	1.000	1 1 3	0.00 0.00 25.83	12.94	~	5.63 17.50	4.83 17.50	- -	0.590
Habitat Means			0.01	0.03		0.11	0.11		-			0.33	0.58		0.88	0.74	0			8.60	12.90		11.55	11.15	+	
Fisher's Stouffer's		wer			Power Power			P-valu P-valu		2	Power Power				er-50% er-50%		e-value e-value		yz Power Power			Power Power		I	P-value P-value	

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

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

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				To	otal I	vertebra	tes							_	Rock							Pereni	nials (F	'}		
Site Pair 1	Mvd	N	c	SE	N	0	SE	CV	D	P	N	c	SE	И	0	SE	CV D	P	N	С	SE	N	0	se	CA D	P
50389C/50389 51091C/51091 62802C/50226	1	1	8.75 0.00 0.00	8.75 0.00	0	4.37 5.00	4.37 5.00	-		0.633	2 1 2	91.25 100.00 100.00	8,75 0.00	0	95.63 95.00	4.38 5.00	 - +	0.633	2 1 2	0.00 0.00 0.00	0.00	0	0.00	0.00 0.00	- o - - o	1.000
Habitat Mean:	s		2.93	4.40		4.70	4.70		-			97.10	4.40		95.30	4.70	4			0.00	0.00		0.00	0.00	0	
Fisher's Stouffer's		Power Power			Power Power			P-valu P-valu			Powe:				c-50% c-50%		-value -value		Power Power			Power Power			-value -value	0.597 0.500
50389C/50389 51091C/51091 62802C/50226	2	2	0.00	0.00	0	0.83	1,25 0,83	-			0 2 0	83.75	11.25		97.50 99.17	1.44 0.83	-		0 2 0	0.00	0.00	0	1.25	1.25 0.00	-	
Habitat Mean	ŝ		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 Stouffer's		Power Power			Power Power			P-valu P-valu			Power Power				r-50% r-50%		-value -value		Power Power			Power-		I	-value -value	
50389C/50389 51091C/51091 62802C/50226	. 3	1 1 3	0.00 0.00 19.17	2.20	ō	0.63 5.00	0.63 4.21	-	+ (0.056	1 3	100.00 100.00 52.50	16.65	0	93.75 77.50	5.45 17.17		0.284	1 1 3	0.00 0.00 25.00	12.50	ō	0.63 3.75	0.63 3.75		0.180
Habitat Means	1\$		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 Stouffer's		Power Power			Power Power			P-valu P-valu		~ z	Power				-50% -50%		-value -value		z Power Power			Power-			-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. Only one site pair.

Table C-5.385. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Coarse Textured. May 1991. Overstory removed July 1990. (Continued.)

				Ann	uals (A)								Ephen	erals (AE	1)										 		
<u> </u>	.4 17	0	O P	NT	n	QP	ĊΨ	n	P	N	ď	SR	N	Ω	SE	CA	p	P	N	Ç	ŞE	N	0	SE	CV E	ı	P
50389C/50389 1 51091C/51091 1 62802C/50226 1	1 1	0.00 0.00	0.00	0	0.00	0.00	-		1.000	1 2	0.00	0.00	0 3	0.00	0.00	-		1.000									
Habitat Means		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0										
Fisher's Stouffer's	Power Power				r-50% r-50%	I			0.597 0.500	Power Power			Power	r-50% r-50%		P-valu P-valu		0.5 97 0.500	Lower				r-50% r-50%		-value -value		
50389C/50389 2 51091C/51091 2 62802C/50226 2	2 2	0.00	0.00	ō	0.00	0.00	-			0 2 0	0.00	0.00	ō	0.00 0.00	0.00	-											
Habitat Means		0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00												
Fisher's Stouffer's	Power Power				r-50% r-50%		P-val P-val			Power Power				r-50% r-50%		P-valu P-valu			Power Power				er-50%		P-value P-value		
50389C/50389 1 51091C/51091 1 62802C/50226 1	3 1	0.00 0.00 0.83	0.83	Ō	5.00 13.75	5.00 13.75	-	-	0.562	1 3	0.00 0.00 0.83	0.83	4	0.00 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 Stouffer's	Power Power				r-50% r-50%		P-val P-val			<pre>2 Power Power</pre>				r-50% r-50%		P-val: P-val:			Power Power				er-50% er-50%		P-value P-value		

Table C-5.385. Page 3. December 15, 1994

x At least one site pair p-value < 0.100 in opposite direction of 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. 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; c = control > oiled; - = control < oiled; o = control = oiled; P probability value; dashes insufficient data.

				3	rotal	Chlorophy	yta					Могр	hologi	cal (Foup: B	laded Gr	eens					Blac	ded G	reens (As) (a)			
Site Pair	Mvd N		¢	SE	N	٥	SE	CA	D	P	N	С	SE	N	0	SE	ÇV	Þ	2	N	c	3E	N	0	SE	cv	D	P P
50389C/5038 51091C/5109 62802C/5022	1 1 1	(0.00 0.00 0.00	0.00	٥	0.00	0.00	-	•	1.000	2 1 2	0.00 0.00 0.00	0.00	0	0.00	0.00	-	0	1.000	2 1 2	0.00 0.00 0.00	0.00	0	0.00	0.00	-		1.000
Habitat Mea	ns	(0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		٥	
Fisher's Stouffer'	Pow s Pow					er-50% er-50%				0.597 0.500	Power Power				r-50% r-50%		P-valı P-valı		0.597 0.500	Power Power				r-50% r-50%		-valu -valu		0.597 0.500
50389C/5038 51091C/5109 62802C/5022	1 2 2	(0.00	0.00	ō	0.00	0.00	-			0 2 0	0.00	0.00		0.00	0.00				0 2 0	0.00	0.00	ō	0.00	0.00 0.00	-		
Habitat Mea	ins	(0.00	0.00		0.00	0.00	1				0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's Stouffer'	Powers Power					er-50% er-50%					Power Power				r-50% r-50%		P-val: P-val:			Power Power				-50% -50%		-valu		
50389C/5038 51091C/5109 62802C/5022	1 3 1	Ċ	0.00 0.00 0.83	0.83	ō	0.00 4.37	0.00 4.37	-	0	0.701	1 1 3	0.00 0.00 0.83	0.83	ō	0.00 4.37	0.00 4.37	-	o -	0.701	1 1 3	0.00 0.00 0.83	 0.83	ō	0.00 4.37	0.00 4.37	-	o - 1	 0.701
Habitat Mea	ns	C	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 Stouffer'	Pow s Pow					er-50% er-50%		P-val P-val			Power Power				r-50% r-50%		P-valı P-valı		:	Power Power				:-50% :-50%		-valu		z

(a) Rormmannia, Morostrome, U,vs and Olvaria. x At least one site pair p-value < 0.100 in opposite direction of overall tests. y Direction of difference between habitat means is different than direction of overall tests. x Only one eith pair.

		Morpholog	gical (Froup:	Fine F	ilament	ous Gr	reen	В			Ac:	rosip	honia sp.	(A)						cı	adoph	ora sp.	(AE)			
Site Pair Mv	d N	c	SE	N	0	SE	CA	D	P	N	c	SE	N	0	8E	ĊV	מ	P	N	С	SE	N	0	SE	CV 1)	P
50389C/50389 1 51091C/51091 1 62802C/50226 1	1	0.00 0.00 0.00	0.00	0	0.00 0.00	0.00	-		1.000	2 1 2	0.00 0.00 0.00	0.00 0.00	0	0.00	0,00	_	0	1.000	2 1 2	0.00 0.00 0.00	0.00	0	0.00	0.00	-		.000
Habitat Means		0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	(•	
Fisher's Stouffer's	Power Power			Power Power			P-val P-val		0.597 0.500	Power Power				r-50% r-50%		P-valu P-valu		0.597 0.500	Power Power				r-50% r-50%		-value).597).500
50389C/50389 2 51091C/51091 2 62802C/50226 2	2	0.00	0.00	0	0.00	0.00	-			0 2 0	0.00	0.00		0.00 0.00	0.00	-			0 2 0	0.00	0.00	ō	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 Stouffer's	Power Power			Power Power			P-val P-val			Power Power				r-50% r-50%		P-valu P-valu			Power Power			Power Power	-50% -50%		-value -value		
50389C/50389 3 51091C/51091 3 62802C/50226 3	1	0.00 0.00 0.00	0.00	ō	0.00	0.00	-	0	1.000	1 1 3	0.00 0.00 0.00	0.00	Ō	0.00	0.00	-	0	1.000	1 1 3	0.00 0.00 0.00	0.00	ō	0.00	0.00	- 0		.000
Habitat Means		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00	c	,	
Fisher's Stouffer's	Power Power			Power Power			P-val		;	Power Power				r-50% r-50%		P-valu P-valu			2 Power Power			Power Power			-value -value		z

x λ t least one site pair p-value < 0.100 in opposite direction of overall tests. y Direction of difference between habitat means is different than direction of overall tests. 2 only one site pair.

Table C-5.386. Page 1. December 15, 1994

Table C-5.386. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Coarse Textured. May 1991. Overstory removed July 1990. (Continued.)

		Mo:	rphologic	cal Gr	oup:	Tubular	and Sac	cate	Gre	ens		B 1	idingi	a/Ent	eromorpha	(AB) (a)											
Site Pair	Mvd	N	c	SE	N	0	SE	CA	D	P	N	c	SE	N	0	SE	CV D	P		N	С	SE	N	0	SE	CV D	1	•
50389C/50389 51091C/51091 62802C/50226	1 1	1	0.00 0.00 0.00	0.00	0	0.00 0.00	0.00	-	-	1.000	2 1 2	0.00 0.00 0.00	0.00	0	0.00	0.00 0.00	-											
Habitat Mear	nş		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	0											
Fisher's Stouffer's		Power Power				r-50% r-50%				0.597 0.500	Power Power				r-50% r-50%		P-value P-value			Power Power			Power Power	-50% -50%		P-value P-value		
50389C/50389 51091C/51093 62802C/50226	1 2	2	0.00	0.00	ō	0.00	0.00	-			0 2 0	0.00	0.00	ō	0.00 0.00	0.00	-	-										
Habitat Mean	r.s		0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00												
Fisher's Stouffer's		Power Power				r-50% r-50%		P-va P-va			Power Power				r-50% r-50%		P-value P-value			Power Power			Power Power					
50389C/50389 51091C/51093 62802C/50226	1 3	1	0.00 0.00 0.00	 0.00	ō	0.00	0.00 0.00	-	0	1.000	1 3	0.00 0.00 0.00	0.00	ō	0.00	0.00 0.00	-		00									
Habitat Mean	ns		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	С											
Fisher's Stouffer's		Power Power				r-50% r-50%		P-va P-va			z Power Power				r-50% r-50%		P-value P-value			Power Power				-50% -50%		P-value P-value		

x A: least one site pair p-value < 0.100 in upposite direction of overall tests.
y Direction of difference between habitat peams is different than direction of overall tests.
z Only one site pair.

Table C-5,387. Algal Percent Cover. Phaeophyta. Cook Inlet/Renai. 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 of difference; + - control > oiled; - = control < oiled; o : control = oiled; P = probability value; dashes insufficient data.

					Total	Phaeophy	t na				Mor	phologi	cal (Group: B	laded Br	BCWD				Tota	l Fucu	s gardne	ri (P)		
Site Pair M	ivd	N	С	SE	N	0	SE	CA I	P	N	С	SE	N	0	SE	CV D	P	N	С	SE	N	0	SE	CA D	P
50369C/50389 51091C/51091 6280ZC/50226	1		0.00	0.00	0	0.00	0.00	-		1 2	0.00	0.00	0	0.00	0.00	- 0		1 2	0.00	0.00	0	0.00	0.00	-	
Habitat Means	S		0.00	0.00		0.00	0.00	Ç	•		0.00	0.00		0.00	0.00	0			0.00	0.00		0.00	0.00	0	
Fisher's Stouffer's		Power Power			Power	-50% -50%			0.597	Power Power				r-50% r-50%			0.597 0.500	Power Power			Power Power			P-value P-value	
50389C/50389 51091C/51091 62802C/50226	2	2	0.00	0.00	ō	0.00	0.00			0 2 0	0.00	0.00	Ö	1.25 0.00	1.25	-		0 2 0	0.00	0.00	ō	1.25 0.00	1.25 0.00	-	
Habitat Means	3		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 Stouffer's		Power Power			Power Power			P-value P-value		Power Power				r-50% r-50%		-value -value		Power Power			Power			P-value P-value	
50389C/50389 51091C/51091 62802C/50226	3	1 1 3	0.00 0.00 25.00	12.50	ô	0.63 9.38	9.38	-	0.352	1 1 3	0.00 0.00 25.00	12.50	ō	0.63 3.75	0.63 3.75	 - ,	0.180	1 1 3	0.00 0.00 25.00		4 0 4	0.63	0.63 3.75	-	0.180
Habitat Means	3		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 Stouffer's		Power Power			Power Power			P-value P-value		z Power Power				r-50% r-50%		-value -value		2 Power			Power Power			P-value P-valuc	z

x. At least one site pair p-value ϵ 0.00 in opposite direction of overall tests. y Direction of difference between habitat means is different than direction of overall tests. only one site pair.

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			λđ	ult Fu	сла да	rdneri (1	?) (> 20	;m)				Juven	ile F	TGRB	gardneri	(P) (<=	2cm)					Fu	cue St	Lpes (P)	(a)			
Site Pair	Nvd	N	С	SE	N	0	SE	¢v	D	P	И	С	SE	N	٥	8E	ÇV İ	b	P	M	С	SE	N	0	SE	CV	D	P
50389C/50389 51091C/51091 62802C/50226	1	1	0.00 0.00 0.00	0.00	ō	0.00	0.00	-		1.000	2 1 2	0.00 0.00 0.00	0.00	0	0.00	0.00	-		1.000	5 5	0.00 0.00 0.00	0.00	0	0.00	0.00	-		.000
Habitat Means	S		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	c	0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power			Power Power			e-valu		0.597 0.500	Power Power				r-50% r-50%		P-value P-value		0.597 0.500	Power Power			Power-			valu valu		0.597 0.500
50389C/50389 51091C/51091 62802C/50226	2	0 2 0	0.00	0.00	ō	0.00	1.25	-			0 2 0	0.00	0.00	ō	0.00	0.00	-			0 0	0.00	0.00	ō	0.00	0.00	-		
Habitat Means	s		0.00	0.00		0.65	0.65					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's Stouffer's		Power Power			Power Power			-valu			Power Power				r-50% r-50%		P-value P-value			Power Power			Power Power		F	valu		
50389C/50389 51091C/51091 62802C/50226	3	1 1 3	0.00 0.00 25.00	12.50	ō	0.63 3.75	0.63 3.75	- -		0.180	1 1 3	0.00 0.00 0.00	0.00	ō	0.00	0.00			1.000	I 1 3	0.00 0.00 0.00	0.00	0	0.00	0.00	-	•	1.000
Habitat Means	s		8.33	12.50		2.20	2.20		+			0.00	0.00		0.00	0.00	0)			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power			Power Power			e-valu e-valu		2	Power Power				r-50% r-50%		P-value P-value		7	Power Power			Power Power			-valu		z

Table C-5.387. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Coarse Textured. May 1991. Overstory removed July 1998. (Continued.)

		Mor	phologic	al Gr	oup:	Coarse F	11ament	ОЛВ	Brow	ns		My	lophy	cus/S	Scytosipho	on (A) ((a)			1	orpholo	gical (Group:	Fine F	ilamento	ous	Brown	В
Site Pair My	va N	_		SE	N	0	SE	CV		P	N	С	SE	N	0	SE	CA D		P	N	С	82	N	0	SE	Ç1	V D	P
50389C/50389 1 51091C/51091 1 62802C/50226 1	1 1	Č	0.00	0.00	0	0.00	0.00	-	-	1.000	2 1 2	0.00 0.00 0.00	0.00	0	0.00	0.00	-		1.000	2 1 2	0.00 0.00 0.00	0.00	0	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	C)			0.00	0.00)	0.00	0.00		0	
Fisher's Stouffer's	Pov				Power			P-va P-va		0.597 0.500	Power Power				r-50% r-50%		P-value P-value		0.597 0.500	Power Power				r-50% r-50%				0.597 0.500
50389C/50389 2 51091C/51091 2 62802C/50226 2	2 2	(0.00	0.00	Õ	0.00	0.00			 	0 2 0	0.00	0.00	ō	0.00	0.00	-			0 2 0	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	3	0.00	0.00			
Fisher's Stouffer's	Pov					-50% -50%		P-va P-va			Power Power				r-50% r-50%		P-value P-value			Power Power				r-50% r-50%			alue	
50389C/50389 3 51091C/51091 3 62802C/50226 3	3 1	(0.00 0.00 0.00	0.00	ō	0.00	0.00	-	-	1.000	1 1 3	0.00 0.00 0.00	0.00		0.00	0.00	-	•	1.000	1 1 3	0.00 0.00 0.00	0.00	- 0	0.00 5.62	0.00 5.63		- o 	0.391
Habitat Means		(0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00)	2.80	2.80		-	
Fisher's Stouffer's	Por		-			-50% -50%		P-va P-va			2 Power Power				r-50%		P-value P-value		2	Power Power				r-50% r-50%			alue alue	z

(a) Genera not separated.

x At least one site pair p-value < 0.130 in opposite direction of overall tests, y Direction of difference between habitut means is different than direction of overall tests. z Only one site pair.

Table C-5.387. Dage 3. December 15, 1

		Fir	• Fila	amento	us Brown	s (AE)	(b)																		
Site Pair My	4 N	c	\$E	N	0	SE	CV I	P	n	С	SB	N	0	SE	CA D	P	N	С	SI	N N	0	SE	ÇV	D	P
51091C/51091 1 62802C/50226 1	1	0.00	0.00	0	0.00	0.00		1.000																	
Habitat Means		0.00	0.00		0.00	0.00	c)																	
Fisher's Stouffer's	Power Power			Power Power				0.597	Power Power			Power-			P-value P-value		Power Power				r-50% r-50%		P-valu P-valu		
50389C/50389 2 51091C/51091 2 62802C/50226 2	2	0.00	0.00	0	0.00	0.00	-																		
Habitat Means		0.00	0.00		0.00	0.00																			
Fisher's Stouffer's	Power Power			Power Power			P-value P-value		Power Power			Power-			P-value		Power				r-50% r-50%		P-val: P-val:		
50389C/50389 3 51091C/51091 3 62802C/50226 3	1	0.00 0.00 0.00	0.00	~	0.00 5.62	0.00 5.63	-	0.391																	
Habitat Means		0.00	0.00		2,80	2.80	-	-																	
Fisher's Stouffer's	Power Power			Power Power			P-value P-value		2 Power Power			Power-			P-value P-value		Power Power				r-50% r-50%		P-val: P-val:		

(b) Elachista, Ectocarpus and Pilayella.

x At lesst one site pair p-value < 0.130 in opposite direction of overall tests.</p>
y Direction of difference between habital means is different than direction of overall tests.
c Only one site pair.

Table C-5.388. Aigal 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; CV = coefficient of variation;

SE standard error; D = direction of difference; · = control > oiled; - = control < oiled; p = probability value; dashes = insufficient data.

					Total	Rhodophy	/ta				Mor	pholog	ical 0	Group:	Bladed R	Reds				Gigart	inacea	e Group	(P) (a)		
Site Pair	Mvc	d N	С	SE	N	0	SE	ÇV D	Р	N	c	SE	N	o	SE	CV D	P	N	C	SB	N	0	SE	CV D	P
50389C/5038 51091C/5109 62802C/5022	1 1	1	0.00 0.00 0.00	0.00	0	0.00	0.00			2 1 2	0.00 0.00 0.00	0.00	0	0.00	0.00	-		2 1 2	0.00 0.00 0.00	0.00	0	0.00	0.00	- o -	1.000
Nabitat Mea	ns		0.00	0.00		0.00	0.00	0			0.00	0.00		0.00	0.00	0			0.00	0.00		0.00	0.00	0	1.000
Fisher's Stouffer'	s	Power Power			Power Power			P-value P-value		Power			Power Power			P-value P-value		Power Power			Power-				0.597 0.500
50389C/5038 51091C/5109 62802C/5022	1 2	2	0.00	0.00	ō	0.00	0.00	-		0 2 0	0.00	0.00	-	0.00	0.00 0.00	-		0 2 0	0.00	0.00	ō	0.00	0.00	-	
Habitat Mea	ns		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'	3	Power Power			Power Power			P-value P-value		Power Power			Power-			P-value P-value		Power Power			Power-		p	-value	
503 89 C/5038 51091C/5109 62802C/5022	1 3	1 3	0.00 0.00 0.00	0.00	ō	5.00 3.75	5.00 3.75	-	0.391	1 1 3	0.00 0.00 0.00	0.00	ō	5.00 3.75	5.00 3.75	-	0.391	1 1 3	0.00 0.00 0.00	0.00	4	0.00	0.00	- o	1.000
Habitat Mea	กร		0.00	0.00		4.40	4.40	-			0.00	0.00		4.40	4.40	-			0.00	0.00		0.00	0.00	٥	1.000
Fisher's Stouffer'		Power Power			Power Power			P-value P-value		z Power Power			Power Power			P-value P-value		z Power Power			Power-			-value	z

(a) Chondris, Iridaws, Macconarpus and Rhodoglossum.
x At least one site pair p-value < 0.100 in opposite direction of overall tasts.</p>
y Direction of difference between habitat means is different than direction of overall tests.
T Only one site pair.

Table C-5.388, Page 1. December 15, 1994

				Palmar	ia spp.	(A)					F	ממזס,	yra sp. ((A)				:	Morpholo	ogical	Group:	Coarse	Filamen	tous :	Red	ø
Site Pair My	d N	C	SE	N .	٥	SE	ÇV D	P	N	С	SE	N	0	SE	CV D)	P	N	С	SE	N	0	SE	CV	Ď	P
50389C/50389 1 51091C/51091 1 62802C/50226 1	1	0.00	0.00	- 0	0.00	0.00	-	1.000	2 1 2	0.00	0.00	0	0.00	0.00	-		.000	2 1 2	0.00 0.00 0.00	0.00	- 0	0.00	0.00	-		1.000
Habitat Means		0.00	0.00)	0.00	0.00	0			0.00	0.00		0.00	0.00	0				0.00	0.00)	0.00	0.00		0	
Fisher's Stouffer's	Powe				r-50% r-50%		P-value P-value		Power Power				r-50% r-50%		P-value P-value		.597	Power Power				c-50%		-valu	e	
50389C/50389 2 51091C/51091 2 62802C/50226 2	2	0.00	0.00	Ö	0.00	0.00	-		0 2 0	0.00	0.00		0.00	0.00	-			0 2 0	0.00	0.00	0	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	ı	0.00	0.00			
Fisher's Stouffer's	Powe Powe				r-50% r-50%		P-value P-value		Power Power				×-50% ×-50%		-value			Power Power				-50%	F	-valu		
50389C/50389 3 51091C/51091 3 62802C/50226 3	1	0.00 0.00 0.00	0.00	ō	3.13 3.75	3.13	 	0.391	1 1 3	0.00 0.00 0.00	0.00	4 0 4	1.88	1.88	 - - 0		.000	1 1 3	0.00	0.00	ō	0.00	0.00	-	0	1.000
Habitat Means		0.00	0.00		3.45	3.45	-			0.00	0.00		0.95	0.95	0				0.00	0.00		0.00	0.00		0	1.000
Fisher's Stouffer's	Powe			Power Power			-value -value		Power Power				r-50% c-50%		-value -value		yz	Power Power		-	Power	-50%		-valu	Ç.	z

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

Table C-5.388. Algal Percent Cover. Rhodophyta. Cook Inlat/Kenai. Coarse Textured. May 1991. Overstory removed July 1990. (Continued.)

				Bnđo	cladi	a muricat	a (P)						G1oi	ope1t	tis furcat	a (A)					Mo	rpholog	ical	Group: Sa	accate	Re	đa		
Site Pair My	rd N		c	gr	N	0	9E	CV	D	P	N	С	SE	N	0	SE	GA I	D	P	N	С	SE	N	0	Se		ÇA D	,	P
50389C/50389 1 51091C/51091 1 62802C/50226 3	1 1	0	0.00	0.00	4 0 3	0.00	0.00	-	0	1.000	2 1 2	0.00 0.00 0.00	0.00	0	0.00	0.00	-		1.000	2 1 2	0.00 0.00 0.00	0.00	0	0.00	0.00	0	- 0		.000
Habitat Means		C	0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00	1	0.00	0.00	D	C	1	
Fisher's Stouffer's	Pov				Power			P-va P-va		0.597 0.500	Power Power				er-50%		P-value P-value		0.597 0.500	Power Power				er-50% er-50%			value value		
50389C/50389 2 51091C/51091 2 62802C/50226 2	2 2	0	0.00	0.00	4 0 3	0.00	0.00				0 2 0	0.00	0.00		0.00	0.00	-			0 2 0	0.00	0.00	3	0.00	0.00	0	-		
Habitat Means		C	0.00	0.00		0.00	0.00	•				0.00	0.00		0.00	0.00					0.00	0.00	1	0.00	0.00	0			
Fisher's Stouffer's	Pov					r-50% r-50%		P-va P-va			Power Power				er-50% er-50%		P-value P-value			Power Power				ver-50% ver-50%			value value		
50389C/50389 3 51091C/51091 3 62802C/50226 3	3 1	C	0.00	0.00	õ	0.00	0.00	-	_	1.000	1 3	0.00 0.00 0.00	0.00	ō	0.00	0.00	-	0	1.000	1 1 3	0.00 0.00 0.00	0.00	0	0.00	0.00	0	- c	1	000
Habitat Means		(0.00	0.00		0.00	0.00)	o			0.00	0.00		0.00	0.00		0			0.00	0.00	>	0.00	0.00	0	(,	
Fisher's Stouffer's		wer				r-50% r-50%		P-va P-va			Power Power				er-50% er-50%		P-valu P-valu			Power Power				ver-50% ver-50%			value 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.
y Only one site pair.

Table C-5.388. Fage 3. December 15, 1994

		I	Halosa	ccion	glandifo	rme (A)					Morpholo	gical	Group	: Fine F	ilament	ous R	teds			Pol	Lysipho	nia/P	terosipho	nia (A)	(a)		
Site Pair Mvd	N	c	SE	N	0	SE	cv	D	P	N	С	SE	N	0	SE	Ċν	D	P	N	С	SE	N	٥	SE	CV	Þ	P
50389C/50389 1 51091C/51091 1 62802C/50226 1	1	0.00 0.00 0.00	0.00	0	0.00	0.00 0.00	-	0	1.000	2 1 2	0.00 0.00 0.00	0.00	3	0.00	0.00	-	0	1.000	2 1 2	0.00	0.00	0	0.00	0.00	-	0	1,000
Habitat Means		0.00	0.00		0.00	0.00	5 ··· 3	0	0.597	Power	0.00	0.00		0.00 r-50%	0.00	?-val	0	0.597	Power	0.00	0.00	Powe	0.00 r-50%	0.00		o lue	0.597
	Power Power				r-50% r-50%		P-val P-val		0.500	Power				r-50%		P-val			Power		-	Powe	r-50%			ue	0.500
50389C/50389 2 51091C/51091 2 62802C/50226 2	2	0.00	0.00	0	0.00	0.00	-			0 2 0	0.00	0.00	ō	0.00	0.00	-			0 2 0	0.00	0.00	ō	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			
	Power Power				r-50% r-50%		P-val P-val			Power Power				r-50% r-50%		P-val P- va l			Power Power				r-50% r-50%		P-va P-va		
50389C/50389 3 51091C/51091 3 62802C/50226 3	1 1 3	0.00 0.00 0.00	0.00	ō	0.00	0.00 0.00	-	0	1.000	1 1 3	0.00 0.00 0.00	0.00	ō	0.00	0.00	-	0	1.000	1 1 3	0.00 0.00 0.00	0.00	0	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			0.00	0.00		0.00	0.00		0	
	Power Power				r-50% r-50%		P-val P-val			2 Power Power				r-50% r-50%		P-val P-val			Power Power				r-50% r-50%		P-va P-va		z

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

Table C-5.388. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Coarse Textured. May 1991. Overstory removed July 1990. (Continued.)

		Mor	hologi	ical G	roup: Cr	ustose	Ređs					Hil	denbr	andia sp	, (P)					_			
Site Pair Mv	rd N	С	SE	N	0	SE.	CV	D	P	N	С	SE	N	٥	SE	ÇV	ם	P	-11	·	 	-	 et
50389C/50389 1 51091C/51091 1 62802C/50226 1	1 1	0.00 0.00 0.00	0.00	0	0.00	0.00 0.00	-		1.000	2 1 2	0.00 0.00 0.00	0.00	0	0.00	0.00 0.00	-		1.000			-		
Habitat Means		0.00	0.00		0.00	0.00		Q			0.00	0.00		0.00	0.00		0						
Fisher's Stouffer's	Power Power				r-50% r-50%				0.597 0.500	Power Power				r-50% r-50%		P-val P-val		0.597 0.500	Power Power			r-50% r-50%	 P-value P-value
50389C/50389 2 51091C/51091 2 62802C/50226 2	2 2	0.00	0.00	0	0.00 0.00	0.00	-		 	0 2 0	0.00	0.00	ō	0.00	0.00	-							
Habitat Means		0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00								
Fisher's Stouffer's	Power Power				r-50% r-50%		P-val P-val			Power Power				±-50% ±-50%		P-val P-val			Power Power			er-50% er-50%	 P-value P-value
50389C/50389 3 51091C/51091 3 62802C/50226 3	3 1	0.00 0.00 0.00	0.00	0	0.00	0.00	-	0	1,000	1 3	0.00 0.00 0.00	0.00	0	0.00 0.00	0.00 0.00	-	_	1.000					
Habitat Means		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0						
Fisher's Stouffer's	Power Power				r-50% r-50%		P-val P-val			z Power Power				r-50% r-50%		P-val P-val			Power Power			er-50% er-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 habital means is different than direction of overall tests. z Only one site pair.

Table C-5.389. Algal Percent Cover. Invertebrates. Cook Inlet/Kensi. Coarse Textured. May 1991. Overstory removed July 1990.

Results of statistical differences between means of control and ciled site pairs. MVD = motor vertical drop; N = sample size; C = control mean; O = colled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > ciled; - = control + colled; D = probability value; dashes - insufficient data.

				Bala	nomorpha							L	ottildae								м	ytilus				
Site Pair Myd	N	С	9E	N	0	SE	cv :	P	N	С	SE	N	0	SE	CV I	,	P	ы	¢	SE	N	0	SE	C	V D	P
50389C/50389 1 51091C/51091 1 62802C/50226 1	2	8.75 0.00 0.00	8.75 0.00	4 0 3	4.37	4.37 5.00	-	0.633	2	0.00 0.00 0.00	0.00	0	0.00	0.00	- c		1.000	2 1 2	0.00 0.00 0.00	0.00	0	0.00	0.00		-	1.000
Habitat Means		2.93	4.40		4.70	4.70		-		0.00	0.00		0.00	0.00	(>			0.00	0.00		0.00	0.00		0	
	Power Power			Power Power			P-valu P-valu	0.424	Power Power				er-50% er-50%		P-value P-value		0.597 0.500	Power Power				r-50% r-50%				0.597 0.500
50389C/50389 2 51091C/51091 2 62802C/50226 2	0 2 0	0.00	0.00	4 0 3	0.83	0.83	-		0 2 0	0.00	0.00	4 0 3	0.00	0.00	- - -			0 2 0	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			
	Power Power			Power Power			P-valu P-valu		Power Power				er-50% er-50%		P-value P-value			Power Power				r-50% r-50%			alue alue	
50389C/50389 3 51091C/51091 3 62802C/50226 3	1 1 3	0.00 0.00 18.33	1.67	4 0 4	0.63 3.75	0.63 2.98	-	 + 0.029	1 1 3	0.00 0.00 0.00	0.00	ō	0.00	0.00	-	5	1.000	1 1 3	0.00 0.00 0.83	0.83	- 0	0.00 1.25	0.00 1.25		- 0	0.967
Habitat Means		6.10	1.70		2.20	1.80)			0.00	0.00		0.00	0.00	(5			0.27	0.80)	0.65	0.65		-	
Fisher's Stouffer's	Power Power			Power Power			Prvalu Prvalu						er-50% er-50%		P-value P-value			2 Power Power				r-50% r-50%			aluc alue	2

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

Table C 5.389. Page 1. December 15, 1994

				Litt	orinidae																					
Site Pair M	vd N	С	SE	N	0	SE	cv	ם ם	, ,	N	С	SE	N	0	SE	CV D	P	N	С	Se	N	0	SE	CV	D	P
50389C/50389 51091C/51091 62802C/50226	1 1	0.00	0.00	0	0.00	0.00	-	o 1.0																		
Habitat Means		0.00	0.00		0.00	0.00		0																		
Fisher's Stouffer's	Power Power			Power Power			P-valu P-valu			ower			Power- Power-			P-value P-value		Power Power			Power Power			P-valu P-valu		
50389C/50389 51091C/51091 62802C/50226	2 2	0.00	0.00	4 0 3	0.00	0.00	-																			
Habitat Means		0.00	0.00		0.00	0.00																				
Fisher's Stouffer's	Power Power			Power Power			P-valu P-valu			ower			Power-			P-value P-value		Power Power			Power-			P-valu P-valu		
50389C/50389 51091C/51091 62802C/50226	3 1	0.00 0.00 0.00	0.00		0.00	0.00	-		000																	
Habitat Means	1	0.00	0.00		0.00	0.00		0																		
Fisher's Stouffer's	Power Power			Power Power			P-valu P-valu		z Po	ower			Power-			P-value P-value		Power Power			Power-			P-valu P-valu		

x At least one site pair p-value < 0.100 in opposite direction of overall twsts.</p>
y Direction of difference between mabital means is different than direction of overall teams.
z Only one site pair.

Table C-5.390. Algal Percent Cover. Substrates. Cook Inlet/Kenai. Coarse Textured. May 1991. Overstory removed July 1990. Results of statistical differences between means of control and oiled site pairs. MVD = moter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o control = oiled; P = probability value; dashes = insufficient data.

				,	Rock								Mud								Sand			
Site Pair Mv	,d	=	ক্র		_	-	<i>a</i> , ,		N	С	ge	м	0	SE	ÇV D	P	N	С	SE	N	0	SE	CA D	P
50389C/50389 1 51091C/51091 1 62802C/50226 1	1	91.25 100.00 100.00	8.75 0.00	4 0 3	95.63 95.00	4.38 5.00	 - +	0.633	2 1 2	0.00 0.00 0.00	0.00	0	0.00	0.00	- o	1.000	2 1 2	0.00 0.00 0.00	0.00	0 3	0.00	0.00	- 0	1.000
Habitat Means		97.10	4.40		95.30	4.70				0.00	0.00		0.00	0.00	0			0.00	0.00		0.00	0.00	0	
Fisher's Stouffer's	Powe			Power Power			?~value ?-value	0.424	Power Power			Power Power			-value -value	0.597	Power Power			Somer			-value -value	0.597
50389C/50389 2 51091C/51091 2 62802C/50226 2	2	83.75	11.25	4 0 3	97.50 99.17	0.83	-		0 2 0	0.00	0.00	4 0 3	0.00	0.00	-		0 2 0	16.25	11.25	0	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 Stouffer's	Pow			Power Power			P-value P-value		Power Power			Power Power			-value -value		Power Power			Power Power			P-value P-value	
50389C/50389 3 51091C/51091 3 62802C/50226 3	3 1	100.00 100.00 52.50	 16.65	ō	93.75 77.50	5.45 17.17	- + 	0.284	1 1 3	0.00 0.00 0.00	0.00	ō	0.00	0.00	- 0 - 0	1.000	3	0.00 0.00 2.50	2.50	~	0.00	0.00 0.00	- ,	0.423
Habitat Means		84.17	16.70		85.65	11.35	-			0.00	0.00		0.00	0.00	0			0.83	2.50		0.00	0.00		
Fisher's	Pow Pow			Power			P-value P-value		Power			Powe:	c-50% c-50%		e-value e-value		Power Power			Power			P-value P-value	

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

Sand and Mud Zostera/Phyllospadix Shell Fragments SE CV D P 8E CV D N C SE N 0 0 SE ČV D С AR C SE 0 Site Pair Mvd N - 0 1.000 0.00 0.00 1.000 0.00 0.00 0.00 0.00 0.00 0 0.00 0.00 0.00 0.00 0 1.000 50389C/50389 0.00 0.00 51091C/51091 0.00 0.00 0.00 0.00 - 0 1.000 0.00 0.00 0.00 0 1.000 0.00 0.00 0.00 0.00 0.00 o 1.000 0.00 62802C/50226 1 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 О Habitat Means --- P-value 0.597 --- P-value 0.597 Power Power-50% --- P-value 0.597 Power Power-50% Fisher's Power Power-50% Power 50% --- P-value --- P-value 0.500 Power-50% --- P-value 0.500 Power Power Power Power-50% Stouffer's 0.00 0.00 0.00 0.00 0.00 0.00 50389C/50389 2 16.25 11.25 0 0.00 0.00 ---___ 51091C/51091 2 0.00 0.00 0 0.00 0.00 ---0.00 0 0.00 ---0.00 0.00 62802C/50226 2 0 16.30 11.30 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 Habitat Means 0.00 --- P-value Power-50% --- P-value ---Power Power-50% Power Power-50% --- P-value Fisher's Power Power-50% --- P-value ---Power Power-50% --- P-value Power Power-50% --- P-value Stouffer's Power ---0.00 0.00 0.00 ---0.00 0.00 0.00 - 0 ___ 0.00 _--4 0.00 0.00 - 0 50389C/50389 3 0.00 0 0.00 0 51091C/51091 3 0.00 --0 - + 0.423 2.50 2.50 0.00 0.00 0.00 0.00 - 0 1.000 0.00 - 0 1.000 0.00 0.00 4 0.00 0.00 62802C/50226 3 0.00 Δ 0.00 0.00 0.00 0.00 0.83 2.50 0.00 0 0.00 0.00 0.00 0.00 0.00 Habitat Means --- P-value --- z Power Power-50% --- P-value --- z Power-50% --- P-value --- z Power Power-50% Fisher's Power --- Power --- P-value Power-50% --- P-value ---P-value ---Power ---Power-50% Power-50% ---Stouffer's Power

Table 0-5.390. Page 1. December 15, 1994

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

Table C-5.390. Algal Percent Cover. Substrates. Cook Inlet/Kenai. Coarse Textured. May 1991. Overstory removed July 1990. (Continued.)

				Total	Substra	te																				
Site Pair Mv	d N	С	SE	N	0	SE	CV D	P	N	С	SE	N	0	SE	CA	D	P	N	С	SE	N	0	SE	ÇV	D	P
50389C/50389 1 51091C/51091 1 62802C/50226 1	. 1	91.25 100.00 100.00	8.75	- 0	95.63 95.00	4.38 5.00	-	0.633																		
Habitat Means Fisher's Stouffer's	Powe.			Power Power		4.70	P-value	0.424 0.385	Power Power			Power Power			P-valı P-valı			Power Power			Power- Power-			P-valu P-valu		
50389C/50389 2 51091C/51091 2 62802C/50226 2	2 2	100.00	0.00	0 0	97.50 99.17	0.83	-																			
Habitat Means Fisher's Stouffer's	Powe Powe			Powe:			P-value P-value		Power Power			Power Power			P-val			Power Power			Power-			P-valu P-valu		
50389C/50389 3 51091C/51091 3 62802C/50226 3	3 1	100.00 100.00 55.00	15.0		93.75 77.50	5.45 17.17	-	0.306																		
Habitat Means Fisher's	Powe			Powe	85.65 r-50% r-50%		P-value P-value		z Power Power			Power Power			P-val			Power Power			Power-			P-valu P-valu		

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

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; CV = coefficient of variation; SE = standard error; D : direction of difference; + = control > oiled; - = control < oiled; 0 = control = oiled; P = probability value; dashes : insufficient data.

				Alga!	l Div	ersity Ind	iex (a)						Alga	1 Ta	xa Richnes	s (b)							Tot	al Algae				
Site Pair	Mvd	N	С	8e	N	0	SE	CV	D	P	N	c	SE	N	0	SE	GA	D	P	N	С	SE	N	0	SE	c	V D	P
50389C/50389 51091C/51091 62802C/50226	1	2 1 4	0.00 0.00 0.00	0.00	0	0.00	0.00 0.00	-	0	1.000	2 1 4	0.00 0.00 0.00	0.00	0	0.00 0.00	0.00	-	0	1.000	2 1 4	0.00 0.00 0.00	0.00	0	0.00 0.00	0.00 0.00		- o - o	1.000
Habitat Mean	18		0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power				er-50%		P-va P-va		0.597 0.500	Power Power				er-50% er-50%		P-valu P-valu		0.597 0.500	Power Power				r-50% r-50%				0.597 0.500
50389C/50389 51091C/51091 62802C/50226	L 2	1	0.00 0.00 0.00	0.00	Ō	0.00	0.00	-	Ŭ	1.000	1 1 3	0.00 0.00 0.33	0.33	ō	0.00	0.00 0.00		o +	0.423	1 1 3	0.00 0.00 0.83	0.83	ő	0.00	0.00		- o - +	0.423
Habitat Mean	ns.		0.00	0.00	ı	0.00	0.00		0			0.11	0.33		0.00	0.00		٠			0.27	0.80		0.00	0.00			
Fisher's Stouffer's		Power Power				er-50% er-50%		P-va P-va			z Power Power				er-50% er-50%		P-valı P-valı			Power Power				r-50% r-50%			zalue zalue	z
50389C/50389 51091C/51091 62802C/50226	1 3	3 5	0.00 0.00 0.00	0.00	0	0,13 0.11	0.13	-		0.391	3 5 1	0.33 0.00 0.00	0.33	0	1.25	1.25 0.58		-	0.569 	3 5 1	6.67 0.00 0.00	6.67 0.00	0	13.75 27.50	13.75 16.39			0.853
Habitat Mear	2.5		0.00	0.00	}	0.12	0.10		-			0.11	0.17		1.13	0.9î		-			2.23	3.35		20.65	15.10	;	-	
Fisher's Stouffer's		Power Power				er-50% er-50%		P-va P-va			2 Power Power				er-50% er-50%		P-valu P-valu			z Power Power				r-50% r-50%			zalue zalue	z

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

x At least one wite pair p-value < 0.100 in opposite direction of overall tests. y Direction of difference between babitat means to different than direction of overall tests. 2 Only one site pair.

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			т	cal I	Invertebra	tes								Rock								Pere	nnials (P	')			
Site Pair M	vd N	c	SE	N	0	SE	ÇV	D	P	N	С	SE	N	o	SE	ÇA	ם	P	a		מט	44	v	سرن	cv ۔		
50389C/50389 51091C/51091 62802C/50226	1 1	1.25 0.00 0.00	1.25 0.00	0	0.50 2.50	0.5 - 2.5		-	0.513	2 1 4	98.75 100.00 84.38	1.25 15.63	- 0	99.50 97.50				0.513 0.564	2 1 4	0.00 0.00 0.00	0.00	0 4	0.00 0.00	0.00	- 0		
Habitat Means		0.43	0.65		1.50	1.5	0	-			94.40	8.45	,	98.50	1.50)	-			0.00	0.00		0.00	0.00	0		
Fisher's Stouffer's	Power Power				r-50% r-50%				0.426 0.414	Powe Powe				er-50% er-50%		P-val P-val		0.263 0.194	Power Power				r-50% r-50%		-value -value		
50389C/50389 51091C/51091 62802C/50226	2 1	0.00 0.00 2.50	1.44	•	2.50	1.9 - 0.0			0.196	1 1 3	100.00 100.00 95,83	2.20	•	83.50 100.00			-	0.188	1 1 3	0.00 0.00 0.83	0.83	õ	0.00	0.00	- o - 	_	 23
Habitat Means		0.83	1.40		1.25	0.9	5	+			98.60	2.20)	91.75	6.75	5	•			0.27	0.80		0.00	0.00	-		
Fisher's Stouffer's	Power Power				r-50% r-50%		P-va P-va		y:	Powe Powe				er-50% er-50%		P-val P-val		y	Power Power				r-50% r-50%		-value -value		z
50389C/50389 51091C/51091 62802C/50226	3 5	12.50 0.00 0.00	10.10	0	5.63 5.62	2.3 - 2.5		+	0.759	3 5 1	80.83 100.00 35.00	16.73	0	75.63 66.87			+	0.774	3 5 1	6.67 0.00 0.00	6.67 0.00	0	7.50 20.62	7.50 13.63			66
Habitat Means		4.17	5.05		5.60	2.5	0				71.93	8.35	5	71.25	17.50)	+			2.23	3.35		14.05	10.55	-		
Fisher's Stouffer's	Power Power				r-50% r-50%		P-va P-va		y:	Powe Powe				er-50% er-50%		P-val P-val			Power Power				r-50% r-50%		-value -value		z

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

Table C-5.391, Algai Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenzi. Coarse Textured. June 1991. Overstory removed August 1990. (Continued.)

				Ann	nuals (A)								Ephe	merals (A	3)											
Site Pair Mv	rd N	c	SE	N	0	SE	CV	D	P	N	¢	BE	N	0	SE	CA	ם	P	N	С	SE	N	0	SE	CA D	P
50389C/50389 1 51091C/51091 1 62802C/50226 1	1 1	0.00 0.00 0.00	0,00	0	0.00	0.00	-	0	1.000	2 1 4	0.00 0.00 0.00	0.00	0	0.00	0.00	-	-	1.000								
Habitat Means		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0									
Fisher's Stouffer's	Power Power				r-50% r-50%		P-val P-val	lue lue	0.597 0.500	Power Power				er-50% er-50%				0.597 0.500	Power Power			Powe:	-5 0% -5 0%		-value -value	
50389C/50389 2 51091C/51091 2 62802C/50226 2	2 1	0.00	0.00		0.00	0.00	-	0	1.000	1 1 3	0.00	0.00	0	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 Stouffer's	Power				r-50% r-50%		P-val P-val			2 Power Power				er-50% er-50%		P-valu P-valu			Power Power				-50% -50%		-value -value	
50389C/50389 3 51091C/51091 3 62802C/50226 3	3 5	0.00 0.00 0.00	0.00	0	6.25	6.25 4.72	-	-	0.391	3 5	0.00 0.00 0.00	0.00	0	3.13 5.00	3.13 5.00	-	-	0.391								
Habitat Means		0.00	0.00		6.60	5.50		-			0.00	0.00		4.05	4.05		-									
Fisher's	Power				er-50% er-50%		P-va P-va			z Power Power				er-50% er-50%		P-valu P-valu			Power Power				-50% -50%		-value -value	

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habital 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 statisfical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control · oiled; P = probability value; dashes = insufficient data.

						Chlorophy	++					Morph	nologi	cal G	Froup: B1	aded G	eens					Blad	led Gr	eens (AE) (a)			
Site Pair 1	Mvd.	N	С	SE	N	О	SE	CV	D	P	N	С	SE	Ŋ	О	SE	cv	D	P	N	C	SE	N	0	ŞE	cv	D	P
50389C/50389 51091C/51091 62802C/50226	1	2	0.00	0.00	0	0.00	0.00	-		1.000	2 1 4	0.00 0.00 0.00	0.00	0	0.00	0.00	-	0	1.000	2 1 4	0.00 0.00 0.00	0.00	0	0.00	0.00	-	0 0	1.000
Habitat Mean Fisher's Stouffer's	1	Power Power	0.00	0.00	Pow	0.00 er-50% er-50%				0.597 0.500	Power Power	0.00	0.00		0.00 er-50% er-50%		P-va P-va		0.597 0.500	Power Power			Power Power	-50% -50%		P-va:	ue	0.597 0.500
50389C/50389 51091C/51091 62802C/50226	2 2	<u>.</u>	0.00 0.00 0.00	0.00	- 0	0.00	0.00	-	_	1.000	1 1 3	0.00 0.00 0.00	0.00	ō	0.00	0.00	-	_	1.000	1 1 3	0.00	0.00	0	0.00 0.00	0.00	-	•	1.000
Habitat Mean Fisher's	ns	Power	0.00		Pow	0.00 er-50%		P-va P-va		;	Power Power	0.00	0.00	Powe	0.00 er-50% er-50%		P-va P-va		;	Power Power	0.00	0.00	Power	5.00 c-50% c-50%		P-va P-va	ue	z
Stouffer's 50389C/50389 51091C/51091 62802C/50226	3 L 3	5	0.00	0.00	0 4	2.50 2.50 0.00	2.50 0.00	-	-	0.391	3 5 1	0.00 0.00 0.00	0.00	4	0.00	0.00	-	0	1.000	3 5 1	0.00	0.00	0 4	0.00	0.00		0	1.000
Habitat Mean Fisher's Stouffer's	18	Power	0.00		Pow	1.25 er-50% er-50%	1.25	p-va			z Power	0.00	0.00	Powe	0.00 er-50% er-50%	0.00	P-va P-va			Power Power	0.00		Powe	0.00 r-50% r-50%		P-va P-va		2

(a) Kornzannia, Monostroma, Ulva and Ulvaria.

x At least one sire pair p-value c 0:00 in opposite direction of overall tests.

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

Only one site pair.

Table C-5.392. Page 1. December 15, 1994

Only one site pai		Morpholo	-41		Tine P	ilemento	18 G1	reen.	я			Acı	osipl	onia sp.	(A)						C1	adoph	ora sp. (YE)			
ite Pair M	vd N	Morphoto	SE	N	0	SE	CV	ם	P	N	c	SB	N	0	SE	CV	D	P	N	С	SE	N	٥	SE	CV	D	Ъ
0389C/50389 1091C/51091	1 2	0.00	0.00	0	0.00	0.00	-		1.000	2	0.00 0.00 0.00	0.00	5 0 4	0.00	0.00	-		1.000	2 1 4	0.00	0.00	0	0.00	0.00	-		1.000
2802C/50226 abitat Means	1 4	0.00	0.00		0.00	0.00	-	0	1.000	4	0.00	0.00	•	0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's	Power	:	-	Power	r-50% r-50%	1	-val	ue uė	0.597	Power Power				r-50% r-50%		P-va P-va		0.597 0.500	Power Power				-50% -50%		P-val		0.597 0.500
Stouffer's 0389C/50389 1091C/51091	2 1 2 1	0.00	0.00	- 5 - 0	0.00	0.00	-	0	1.000	1 1 3	0.00 0.00 0.00	0.00	Õ	0.00	0.00	-	•	1.000	1 1 3	0.00	0.00	0 2	0.00	0.00	_		1.000
2802C/50226 abitat Means		0.00	0.00	-	0.00	0.00		0			0.00	0.00		0.00	0.00	2-va	0		2 Power	0.00	0.00		0.00 r-50%	0.00	P-val	o Lue	;
Fisher's Stouffer's	Power				r-50% r-50%		?-val ?-val			z Power Power				r-50% r-50%		2-va						Powe	r-50%		P-val		1,000
0389C/50389 1091C/51091	3 5	0.00	0.00	0 0	0.00	0.00	-	0	1.000	3 5	0.00	0.00	0	0.00	0.00	-	- o	1.000	3 5 1	0.00 0.00 0.00	0.00	0	0.00	0.00	-	_	
2802C/50226 Wabitat Means		0.00	0.00	•	0.00	0.00	-	٥		-	0.00	0.00		0.00	0.00		٥			0.00	0.00		0.00 r-50%	0.00	P-va	o Lue	7
Fisher's	Powe:	r	-		r-50%		P-va:			z Power Power				ድ-50ቼ ∽-5Ωቼ		P-va P-va							r-50%		P-va		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between babitat 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. (Continued.)

	Mo	orphologic	cal Gr	oup:	Tubular a	ınd sac	cate G	reens		Bl	idingi	a/Ent	teromorpha	(AE) (a)									 	
Site Pair My	d N	С	SE	N	0	SE	GA	D 1	P N	С	SE	N	0	SE	CV	D	. Б	N	c	SB	N	0	SE	v D	P
50389C/50389 1 51091C/51091 1 62802C/50226 1	1	0.00 0.00 0.00	0.00	0	0.00	0.00	-	-	1	0.00 0.00 0.00	0.00	0 4	0.00	0.00	-		1.000								
Habitat Means		0.00	0.00		0.00	0.00		0		0.00	0.00		0.00	0.00		0									
Fisher's Stouffer's	Power Power				r-50% r-50%		P-valu P-valu						er-50% er-50%		P-val: P-val:		0.597 0.500	Power Power			Power Power			value value	
50389C/50389 2 51091C/51091 2 62802C/50226 2	1	0.00 0.00 0.00	0.00	Ö	0.00	0.00	-	•	1 1 000 3	0.00 0.00 0.00		5 0 2	0.00	0.00	-	-	1.000								
Habitat Means		0.00	0.00		0.00	0.00		0		0.00	0.00		0.00	0.00		0									
Fisher's Stouffer's	Power Power				r-50% r-50%		P-valu P -va lu		z Power Power				er-50% er-50%		P-val: P-val:			Power Power			Power Power			value value	
50389C/50389 3 51091C/51091 3 62802C/50226 3	5	0.00 0.00 0.00	0.00	0	0.00	0.00	_		391 3 5 1	0.00 0.00 0.00	0.00	0	2.50 0.00	2.50 0.00	-		0.391								
Habitat Means		0.00	0.00		1.25	1,25		-		0.00	0.00		1.25	1.25		-									
Fisher's Stouffer's	Power Power				r-50% r-50%		P-valu P-valu		z Power Power				er-50% er-50%		P-val P-val			Power Power			Power Power			value value	

⁽a) Genera not separated.

Table C 5.392. Page 3. December 15, 1994

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

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.

					Tota1	Phaeophy	Ł a					Morp	hologi	çal	Group: Bl	laded Br	OMITB					Tota	1 Fuc	s gardne	ri (P)			
Site Pair	Mvd	N	c	SE	N	0	SE	cv	D	P	N	С	SE	N	0	SE	CV 1	b	P	N	С	SE	N	0	82	CV	, D	P
50389C/50389 51091C/51091 62802C/50226	1 1	1	0.00 0.00 0.00	0.00	0	0.00	0.00	-	0	1.000	2 1 4	0.00 0.00 0.00	0.00	0	0.00	0.00	- (1.000	2 1 4	0.00 0.00 0.00	0.00	0	0.00	0.00	-		1.000
Habitat Mean	าร		0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00	(0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power			Power					0.597 0.500	Power Power				er-50% er-50%		-value -value		0.597 0.500	Power Power				r-50% r-50%				0.597 0.500
50389C/50389 51091C/51091 62802C/50226	1 2	1	0.00 0.00 0.83	0.83	ō	0.00	0.00	-	o +	0.423	1 1 3	0.00 0.00 0.83	0.83	ō	0.00	0.00	-	+	 0 - 42 3	1 1 3	0.00 0.00 0.83	0.83	ō	0.00	0.00	-		0.423
Habitat Mean	าธ		0.27	0.80		0.00	0.00		+			0.27	0.80		0.00	0.00		+			0.27	0.80		0.00	0.00		H	
Fisher's Stouffer's		Power Power			Power			P-val P- v al		:	Power Power				er-50% er-50%		?-value ?-value			Power Power				r-50% r-50%		P-va P-va	lue	z
50389C/50389 51091C/51091 62802C/50226	13	3 5 1	6.67 0.00 0.00	6.67 0.00	0	8.75 25.62	8.75 15.01	-	-	0.988	3 5 1	6.67 0.00 0.00	6.67 0.00		7.50 20.62	7.50 13.63	- ·		0,966 	3 5 1	6.67 0.00 0.00	6.67 0.00	0	7.50 20.62	7.50 13.63	-		0.966
Habitat Mean	ns		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 Scouffer's		Power Power			Power			P-val P-val		- :	Power Power				er-50% er-50%		P-value P-value		2- H :	Power Power				r-50% r-50%	1		lue	z

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

Fucus Stipes (P) (a) Adult Fucus gardneri (P) (> 2cm) Juvenile Fucus gardneri (P) (<= 2cm) CV D cv N C SE 0 SB С SE CV D Þ C SE 0 SE Ð P Site Pair Mvd N 1.000 1.000 0.00 0.00 0.00 0.00 0 1.000 0.00 0.00 0.00 50389C/50389 1 0.00 0.00 0.00 0.00 O 0.00 0.00 51091C/51091 1 0.00 0.00 0.00 0.00 1.000 4 0.00 0.00 0.00 0.00 - o 1.000 0.00 0.00 1.000 0.00 0.00 0 62802C/50226 1 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 Habitat Means Power-50% --- P-value 0.597 --- P-value 0.597 0.597 Power Power-50% Power Power-50% P-value Fisher's Power ---POWEY-50% --- P-value 0.500 Power-50% --- P-value 0.500 Power Power-50% --- P-value 0.500 Power ---Stouffer's Power - 0 0.00 5 0.00 0.00 0.00 --0.00 0.00 Q 0.00 _ _ 0.00 0.00 503890/50389 2 0.00 0.00 0.00 510910/51091 2 1.000 0.00 2 0.00 0.00 - 0 1.000 0.83 0.00 0.00 - + 0.423 0.00 0.00 0.00 0.00 - 0 3 0.00 0.83 62802C/50226 2 0.00 0.00 0.00 0.00 0.00 0.00 0 Habitat Means 0.27 0.80 0.00 0.00 0.00 0.00 0 Power-50% Power-50% --- z Power --- P-value --- P-value Power-50% P-value --- z Power Fisher's Power Power-50% Power-50% --- P-value ---Power P-value Power-50% --- P-value ---Power ---Stouffer's Power 0.00 0.00 0.00 0.00 - o 1.000 0.00 0.00 0.00 0.00 - 0 1.000 50389C/50389 3 6.67 6.67 4 7.50 7.50 0.966 0.00 0.00 0.00 0.00 51091C/51091 3 0.00 0.00 0 0.00 0.00 0.00 - 0 0.00 0.63 0.63 62802C/50226 3 0.00 4 20.00 13.58 0.00 0.30 0.30 0.00 0.00 0.00 0.00 13.75 10.55 0.00 Habitat Means 2.23 3.35 --- z --- ¿ Power Power-50% --- P-value --- yz Power Power-50% --- P-value Power-50% --- P-value Fisher's Power Power-50% --- P-value Power-50% P-value Power ---Power-50% --- P-value ---Power Stouffer's Power ---

(a) Dwad Fucus plants or etipse 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. y Only one site pair.

Table C-5.393. Page 1. Documber 15, 1994

Table C-5.393. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Coarse Textured. June 1991. Overstory removed August 1990. (Continued.)

						Coarse P	i lement	ON B	Brow	me		My	elophy	cus/	Scytosipho	on (A)	(a)			1	Morpholog	rical G	roup:	Fine Fi	lamento	ıs Bro	wns	
			rphologic	SE SE	N N	COATSO	SE	CV		P	N	c	SE	N	0	SE	C/	, D	P	N	c	SE	Ŋ	o	SE	CV I)	P
50389C/50389 51091C/51091	1 1	2	0.00 0.00 0.00	0.00	5 0	0.00	0.00	-		1.000	2 1 4	0.00 0.00 0.00	0.00	5 0 4	0.00	0.00	-	- 0	1.000	2 1 4	0.00 0.00 0.00	0.00	0	0.00	0.00	- (.000
32802C/50226 Habitat Mear	ns	ower	0.00	0.00		0.00	0.00	P-val		0.597	Power	0.00	0.00		0.00 er-50%		P-ve	o alue	0.597	Power Power	0.00		Powe	0.00 r-50% r-50%		-valu		
Fisher's Stouffer's		OMCI			Power	-50%				0,500	Power	0.00		_	er-50% 0.00	0.00		alue - o	0.500	1	0.00			0.00	0.00	-		
0389C/50389 1091C/51091 2802C/5022	1 2	1	0.00 0.00 0.00	0.00	-	0.00	0.00	-		1.000	1 3	0.00	0.00	ō	0.00	0.00		- 0	1.000	1	0.00	0.00	2	0.00	0.00			1.000
abitat Mean			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		. 0			0.00	0.00		0.00 x-50%	0.00	-valu	D P	
Fisher's	-	ower				r-50% r-50%		P-va P-va			z Power Power				er-50% er-50%			alue alue		z Power Power				r-50%	I	-valu	е	
Stouffer's 0389C/50389 1091C/5109	9 3	3 5	0.00	0.00	4	0.63	0.63	-	-	0,391	3 5 1	0.00 0.00 0.00	0.00	0	0.63	0.63		 - o	0.391	3 5 1	0.00 0.00 0.00	0.00	0	0.63 5.00	0.63 5.00	-	- (0.391
62802C/5022 Habitat Mea		1	0.00	0.00	-	0.00	0.30		-		•	0.00	0.00		0.30	0.30)	-			0.00	0.00		2.80	2.80		-	
Fisher's Stouffer'	E	ower				r-50% r-50%		P-va P-va			2 Power Power				ver-50% ver-50%			alue						52-20g		P-valu P-valu		

(a) Genera not separated.

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

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		Fin	e Fila	mento	us Brown	s (AE)	(b)																				_
					_	n m	M1	n	n	w	۲	27	N	n	SE	۲	N D	P	N	C	Se	N	0	SE	ÇΨ	D	P
1091C/51091 1 2802C/50226 1	1	0.00	0.00	0	0.00	0.00	-) -		.000																		
abitat Means		0.00	0.00		0.00	0.00)	0											Power			Power	-50%		P-val	.ue	
	Power Power			Power Power			P-valu P-valu	ue 0	.597 .500	Power Power			Power- Power-				alue alue		Power			Power			P-val		
50389C/50389 2 51091C/51091 2 52802C/50226 2	1	0.00 0.00 0.00	0.00		0.00	0.00		0 1	.000																		
Habitat Means		0.00	0.00		0.00	0.0		0		_			Power	-509-		7-17	ralue		Power			Power	-50%		P-va		
Fishor's Stouffer's	Power Power			Power Power			P-val		2	Power			Power				alue		Power			Power	-50%		P-va	Lue	
0389C/50389 3 01091C/51091 3 02802C/50226 3	5	0.00 0.00 0.00	0.00		0.63 5.00	0.6 5.0			.391																		
Habitat Means		0.00	0.00		2.80	2.8	0	-								_			Darray			Power	-50%		P-va	lue	
Fisher's Stouffer's	Power Power				r-50% r-50%		P-val P-val		:	Power Power			Power Power				/alue /alue		Power			Power			P-va		

(b) Elechista, 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-5.394. Algal Percent Cover. Rhodophyta. 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 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.

				Total	Rhodophy	a				Mor	holog	ical	Group: E	Bladed R	eds					Gigart	inaces	e Group	(P) (a)		
Site Pair My	rd. N	С	SE	N	0	SE	CV D	P	N	С	SB	N	0	SE	CV D	1	P		-			-		m ·	-
50389C/50389 1 51091C/51091 1 62802C/50226 1	. 1	0.00	0.00	- 0	0.00	0.00	-		2 1 4	0.00 0.00 0.00	0.00	0	0.00	0.00	- 0 - 0		.000 .000	2 1 4	0.00	0.00	0	0.00	0.00	-	
Habitat Means		0.00	0.00)	0.00	0.00	0			0.00	0.00		0.00	0.00	C	,			0.00	0.00		0.00	0.00	0	
Fisher's Stouffer's	Power Power			Power Power			e-value e-value		Power Power				2-50% 2-50%		-value -value		.597 .500	Power Power			Power Power			P-value P-value	
50389C/50389 2 51091C/51091 2 62802C/50226 2	1	0.00 0.00 0.00	0.00	- 0	0.00	0.00	- o - o		1 1 3	0.00 0.00 0.00	0.00	0	0.00	0.00	- o		.000	1 1 3	0.00 0.00 0.00	0.00	~	0.00	0.00		
Habitat Means		0.00	0.00)	0.00	0.00	0			0.00	0.00		0.00	0.00	0	,			0.00	0.00		0.00	0.00	0	
Fisher's Stouffer's	Power Power			Power Power			e-value e-value		z Power Power				-50% -50%		-value		z	Power Power			Power Power			P-value P-value	
50389C/50389 3 51091C/51091 3 62802C/50226 3	5	0.00	0.00	0	2.50	2.50 1.88		0.391	3 5 1	0.00 0.00 0.00	0.00		0.00	0.00	- o		.000	3 5 1	0.00 0.00 0.00	0.00		0.00	0.00	-	1.000
Habitat Means		0.00	0.00)	2.20	2.20	-			0.00	0.00		0.00	0.00	0				0.00	0.00		0.00	0.00	O	
Fisher's Stouffer's	Power Power			Power Power			-value -value		z Power Power			Power			-value -value		,	Power Power			Power Power			P-value P-value	z

(s) Chondrus, Iridges, Mastocarpus and Rhodoglossum. x At least one gite pair p value < 0.100 in opposite direction of overall tests. y Direction to difference between habitar means is different than direction of overall tests z Only one site pair.

Table 2 5.394. rage 1. December 15, 1994

				Palmar	ia spp.	(A)						Porph	yra sp. (A)			_	Morpholo	gical	Group:	Coarse	Filamer	tous R	eds	
Site Pair M	vd N	С	SE	N	٥	SE	Ċν	D	P N	С	SE	И	0	SE	CA D	P	N	С	SE	N	0	SE	CV I) 1	P
50389C/50389 1 51091C/51091 1 62802C/50226 1	1 1	0.00	0.00	- 0	0.00	0.00	-		000 2 1 000 4	0.00 0.00 0.00	0.00	0	0.00 0.00	0.00	-	1.00	- 1	0.00 0.00 0.00	0.00	0	0.00	0.00	- '	1.0	
Habitat Means		0.00	0.00	}	0.00	0.00		D		0.00	0.00		0.00	0.00	c			0.00	0.00	1	0.00	0.00			
Fisher's Stouffer's	Power Power				r-50% r-50%		P-valu P-valu						r-50% r-50%		e-value e-value					Power Power			P-value P-value		
50389C/50389 2 51091C/51091 2 62802C/50226 2	2 1	0.00 0.00 0.00	0.00	- 0	0.00	0.00	-		1 1 000 3	0.00 0.00 0.00	0.00	ō	0.00	0.00	- c		- Ī	0.00 0.00 0.00	0.00	. 0	0.00	0.00	- (000
Habitat Means		0.00	0.00)	0.00	0.00		0		0.00	0.00		0.00	0.00	c			0.00	0.00)	0.00	0.00	(,	
Fisher's Stouffer's	Power Power				r-50% r-50%		P-valu P-valu		z Power				r-50% r-50%		-value		1 10,401			Power Power			P-value P-value		,
50389C/50389 3 51091C/51091 3 62802C/50226 3	3 5	0.00 0.00 0.00	0.00	0	0.00	0.00	-		000 3 5 1	0.00 0.00 0.00	0.00	0	0.00	0.00	- o		- 5	0.00 0.00 0.00	0.00	0	0.00 1.88	0.00	- 6		000
Habitat Means		0.00	0.00	3	0.00	0.00		0		0.00	0.00		0.00	0.00	o			0.00	0.00	;	0.95	0.95		1	
Fisher's Stouffer's	Power Power				r-50% r-50%		P-valu P-valu		z Power Power				≥-50% ≥-50%		?-value ?-value		2 .0			Power Power			P-value P-value		yz

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

Table C-5.394. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Coerse Textured. June 1991. Overstory removed August 1990. (Continued.)

				Endo	cladia	muricat	a (P)						Gloi	opeli	tis furcat	a (A)					Moz	rpholog	ical (Froup: S	accate R	eds		
Site Pair M	evd.	N	С	SE	N	0	ge	ÇV	D	P	Ŋ	c	SE	N	0	SB	cv	D	P	N	c	SE	N	0	SE	CA 1	D	P
50389C/50389 51091C/51091 62802C/50226	1	1	0.00 0.00 0.00	0.00	0	0.00	0.00	-	•	1.000	2 1 4	0.00 0.00 0.00	0.00	0	0.00	0.00	-	0	1.000	2 1 4	0.00 0.00 0.00	0.00 0.00	0 4	0.00	0.00	- 4	o 1	1.000
Habitat Means	3		0.00	0.00		0.00	0.00)	O			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power			Power			P-va P-va		0.597	Power Power				er-50%		P-val P-val		0.597 0.500	Power Power				r-50% r-50%		-valu		
50389C/50389 51091C/51091 62802C/50226	2	1	0.00 0.00 0.00	0.00	Õ	0.00	0.00	-	0	1.000	1 1 3	0.00	0.00	ō	0.00	0.00	_	0	1.000	1 3	0.00 0.00 0.00	0.00	~	0.00	0.00	- I		1.000
Habitat Means	5		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		O			0.00	0.00		0.00	0.00	1	٥	
Fisher's Stouffer's		Power			Power			P-va P-va			Power Power				er-50% er-50%		P-val P-val		;	Power Power				r-50% r-50%		-valu		?
50389C/50389 51091C/51091 62802C/50226	3		0.00 0.00 0.00	0.00	0	0.00	0.00			1.000	3 5 1	0.00 0.00 0.00	0.00	0	0.00 1.88	0.00 1.88	-	0	1.000	3 5 1	0.00	0.00	0	0.00	0.00	-	0 :	1.000
Habitat Means	s		0.00	0.00		0.00	0.0)	O			0.00	0.00		0.95	0.95		0			0.00	0.00	1	0.00	0.00		0	
Fisher's Stouffer's	J	Power Power			Power Power	-50% -50%		P-va P-va			2 Power Power				er-50% er-50%		P-val P-val		ya	Power Power				r-50% r-50%		>-valu >-valu		,

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

Morphological Group: Fine Filamentous Reds Polysiphonia/Pterosiphonia (A) (a) Halosaccion glandiforms (A) c SE CV D P SE N 0 SE cv CV D C С SE Site Pair Myd N 0.00 0 0.00 51091C/51091 1 1 0.00 0.00 4 0.00 0.00 - 0 1.000 - 0 1.000 0.00 4 0.00 0.00 4 0.00 o 1.000 4 0.00 0.00 0.00 4 0.00 0.00 62802C/50226 1 4 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 Habitat Means 0.00 0.00 Power-50% --- P-value 0.597 --- P-valuė 0.597 Power --- P-value 0.597 Power Power-50% Power-50% Fisher's Power Power-50% --- P-value 0.500 Power 0.500 Power Power-50% --- P-value 0.500 Power-50% --- P-value Stouffer's Power 0.00 0.00 --0.00 - 0 0.00 0.00 0.00 0 ---50389C/50389 2 0.00 --5 0.00 0.00 0 0.00 0.00 51091C/51091 2 0.00 0.00 0.00 - o 1.000 1.000 0.00 0.00 - o 1.000 3 0.00 0.00 0.00 0.00 - 0 0.00 62802C/50226 2 3 0.00 0.00 2 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0.00 0.00 0 Habitat Means 0.00 --- P-value --- & Power Power-50% --- P-value Power-50% --- z Power Power-50% --- P-value Fisher's Power --- P-value Power-50% Power Power-50% --- P-value ---Power _ - -Power-50% --- P-value Stouffer's Power 0.00 0.00 2.50 2.50 0.391 0.00 0.00 2.50 2.50 0.391 3 0.00 - 0 1.000 3 0.00 0.00 4 0.00 50389C/50389 3 0.00 0.00 0 0.00 0.00 51091C/51091 3 0.00 0.00 ٥ 0.00 - 0 0.00 0.00 0.00 0.00 ~ Q ---0.00 1 62802C/50226 3 1 0.00 0.00 0.00 - 0 0.00 0.00 1.25 1.25 0.00 0.00 1.25 1.25 0.00 0.00 0 0.00 0.00 Habitat Means Power-50% --- P-value --- z Power ------ z Power Power-50% --- P-value ---Power-50% --- P-value Fisher's Power Power-50% --- P-value Power-50% --- P-value --- Power ---Power --- P-value Stouffer's ---Power-50% Power

(a) Genera not separated. \times At least one size pair p value \leftarrow 0.100 in opposite direction of overall tests. \times pirection of difference between habital means is different than direction of overall tests. \times Only one site pair.

Table C 5.394. Page 3. December 15, 1994

Table C-5.394. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Coarse Textured. June 1991. Overstory removed August 1990. (Continued.)

			Morph	ologi	cal Gr	oup: Cr	ustose	Red#					H11	ienb	randia sp.	(P)												
	N Nur		c :	R.	N	n	SE	CV	D	P	N	C	SE	N	Q	SE	CV	D	P	N	c	SE	N	0	Se	¢	V D	P
51091C/51091 62802C/50226	1 1		0.00	0.00	0	0.00	0.00		0	1.000	1 4	0.00	0.00		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 Stouffer's		wer			Power-					0.597 0.500	Power Power				er-50% er-50%		P-valu P-valu		0.597 0.500	Power Power			Power Power			P-v		
50389C/50389 51091C/51091 62802C/50226	2 1		0.00 0.00 0.00	0.00	ō	0.00	0.00	-	•	1.000	1 1 3	0.00 0.00 0.00	0.00	0	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 Stouffer's		wer wer			Power Power			P-va P-va			z Power Power				er-50% er-50%		P-valı P-valı	ıė		Power			Power			. ,	alue alue	
50389C/50389 51091C/51091 62802C/50226	3 5		0.00 0.00 0.00	0.00	0	0.00	0.00	-		1.000	3 5 1	0.00 0.00 0.00	0.00	0	0.00	0.00 0.00	-	0	1.000									
Habitat Means	;		0.00	0.00		0.00	0.0)	0			0.00	0.00		0.00	0.00		O										
Fisher's		wer	 		Power Power			P-va P-va			z Power Power				er-50% er-50%		?- v alı ?-valı			Power Power			Power Power			2-v P-v		

Table C 5.394. Page 5. December 15, 1994

x At least one site pair p value < 0.100 in opposite direction of 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. Algal Percent Cover. Invertebrates. Cook Inlet/Renai. 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.

						-								L	ottiidae								M	ytilus				
				SE	N	nomorpha	SE	CV	D			С	8E	N	0	SE	cv	D	Þ	N	С	SE	N	٥	SE	CA D	1	P
50389C/50389 51091C/51093 62802C/50226	1 1	2 1 4	1.25 0.00 0.00	1.25	5 0	0.50 2.50	0.50	-	٠	0.513	2 1 4	0.00 0.00 0.00	0.00	0	0.00	0.00	-	0	1.000	2 1 4	0.00 0.00 0.00	0.00	0 4	0.00	0.00	- 0	1	.000
Habitat Mean Fisher's Stouffer'	ns	Power Power	0.43	0.65	Power Power		1.50	P-val P-val	- ue ue	0.426	Power Power	0.00			0.00 er-50% er-50%		P-val		0.597 0.500	Power Power	0.00		Power	r-50% r-50%	1	-value -value	0	
50389C/5038 51091C/5109 62802C/5022	9 2	1 1	0.00 0.00 2.50	1.44	o	0.00	1.94	-		 0.196	1 1 3	0.00 0.00 0.00	0.00		0.00	0.00	-	0	1.000	1 1 3	0.00	0.00	0 2	0.00	0.00	- 0		.000
Habitat Mea	ıns	Power Power	0,83	1.40	Power Power			P-val P-val		yz	Power Power	0.00	0.00	Powe	0.00 er-50% er-50%		P-val P-val			z Power Power			Powe	r-50% r-50%		P-value P-value	2	z
Stouffer' 50389C/5038 51091C/5109 62802C/5022	9 3	3 5	0.00	0.00	4	5.00	2.50 2.70	-	-	0.026	3 5 1	0.00 0.00 0.00	0.00	0	0.00	0.00	_	0	1.000	3 5 1	12.50 0.00 0.00	10.10 0.00 	0 4	0.00 0.63 0.30	0.00		-	0.258
Habitat Mea Fisher's Stouffer'	ins	Power Power	0.00	0.00	Power Power			P-val P-val		- ;	Power Power	0.00	0.00	Pow	0.00 er-50% er-50%		P-val P-val			2 Power Power	4,17	-	Powe	r-50% r-50%		P-value P-value		z

x At least one site pair p-welve < 0.100 in opposite direction of overall tests. y Direction of difference between habitat means is different than direction of overall tests. 2 Only one site pair.

Table C-5.395, Page 1. December 15, 1994

				Litt	orinidae																				D	
ite Pair	Mvd N	С	SE	И	0	SE	CV	ם	P	N	c	SE	M	0	SE	CV I	P	N	С	SE	N	0	SE	GV	D	P
0389C/50389 1091C/51093 2802C/5022	111	0.00 0.00 0.00	0.00	0	0.00	0.00	-		1.000																	
abitat Mea: Fisher's	ns Power	0.00	0.00	Power		0.00	2-val	o ue	0.597	Power			Power-			P-value P-value		Power Power			Power			P-va P-va		
Stouffer				Power					0.500	Power			Power-	-50-6		2-Value		10401								
389C/5038 091C/5109 802C/5022	1 2 1	0.00 0.00 0.00	0.00	-	0.00	0.00	-		1.000																	
abitat Mea	ins	0.00	0.00	I	0.00	0.00		0						- 0.0		P-value		Power			Power	-50%		P-va	lue	
Fisher's Stouffer'	Power s Power				r-50% r-50%			ue		Power Power			Power-			P-value		Power				-50%		P-va	lue	
0389C/5038 1091C/5109 2802C/5022	91 3 5	0.00 0.00 0.00	0.00	0	0.63	0.63 0.00	-		0.391																	
abitat Mea	ans	0.00	0.00)	0.30	0.30		-								T 1		Power			Power	r-50%		P-va	lue	
Fisher's	Power				r-50%		P-val			2 Power			Power Power			P-valu P-valu		Somer				c-50%		P-va		

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

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.

						n									Mud									Sand				
			С	SE	N	Rock	SE	CV	D	P	N	c	SE .	N	0	SE	СV	D	P	N	С	SE	N	D	SE	ÇV	D	P
50389C/50389 51091C/51091	1 1	2	98.75 100.00	1.25	5	99.50	0.50	-		0.513	2 1 4	0.00 0.00 0.00	0.00	0	0.00	0.00	-	0	1.000	2 1 4	0.00 0.00 15.63	0.00	0	0.00	0.00	-		0.391
62802C/50226 Habitat Mear		4	94.38 94.40	15.63 8.45	G	98.50	1.50		-			0.00	0.00	_	0.00	0.00	P-val	0	0.597	Power	5.20	7.80		0.00	0.00	-valu	ıe	0.325
Fisher's Stouffer's	ş	Power				r-50% r-50%				0.263	Power Power				er-50% er-50%		P-val	ue	0.500	Power			Power	14.00	I		ıe -	0.259
50389C/50389 51091C/51093 62802C/50229	1 2	1	100.00 100.00 95.83	2.20	ō	83.50 100.00	13.50 0.00	-	+	0.188	1 1 3	0.00 0.00 0.00	0.00	ō	0.00	0.00	-	0	1.000	1 1 3	0.00	0.00	0 2	0.00	0.00	-		1.000
Habitat Mean		,	98.60	2.20		91.75	6.75		-		_	0.00	0.00		0.00 er-50%	0.00	P-val	0		z Power	0.00	0.00	Power	7.00 r-50%		-val		yz
Fisher's Stouffer's	s	Powe:				er-50% er-50%		P-val P-val		y:	z Power Power			Powe	er-50%		P-val	ue	0.391	Power	0.00	0.00		r-50% 0.00	0.00	-val		1.000
50389C/5038 51091C/5109	1 3	3 5	80.83 100.00 35.00	16.73	0	75.63 66.87	18.69 16.25	-	+	0.774	3 5 1	0.00 0.00 0.00	0.00	0	5.00 0.00	0.00	-			5 1	0.00 65.00	0.00	0 0	0.00	0.00			
62802C/5022 Habitat Mea		1	71.93	8.35	-	71.25			+			0.00	0.00		2.50	2.50		-		, Power	21.67	0.00		0.00 r-50%	0.00	9-val	o ue	yz
Fisher's Stouffer'	s	Powe:				er-50% er-50%		P-val P-val			2 Power Power				er-50% er-50%		P-val P-val			Power				r-50%		P-val	ъe	

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

z Only one site pa	air.	out acc.				Fragment							Zos	tera/	Phyllosp	adix							Sand	and Mud				
Site Pair 1	Mvd N		C (SE.	N	O	SE	cv	D	P	N	C	şe	N	٥	SE	CV	D	P	N	C	SE	N	0	SE	¢v	D	P
50389C/50389 51091C/51091 62802C/50226	1 2	(0.00	0.00	O	0.00	0.00	- - -		1.000	2 1 4	0.00 0.00 0.00	0.00	5 0 4	0.00	0.00	-	0	1.000	2 1 4	0.00 0.00 15.63	0.00 15.63	0 4	0.00	0.00	-	+	1.000 0.391
Habitat Mean Fisher's	ıs Pow	er	0.00	0.00	Power Power			P-va		0.597 0.500	Power Power	0.00	0.00		0.00 r=50% r=50%		P-val P-val		0.597	Power Power	5.20		Power	0.00 c-50% c-50%		P-val		0.325 0.259
Stouffer's 50389C/50389 51091C/51091 62802C/50226	2 1	(0.00 0.00 0.83	0.83	5	0.00	0.00	-	0	0.423	1 1 3	0.00 0.00 0.00	0.00	5 0 2	0.00	0.00	-	0	1.000	1 1 3	0.00 0.00 0.83	0.83	0 2	14.00 0.00 7.00	14.00 0.00 7.00	-	-	0.423
Habitat Mean Fisher's	15 Pow	er	0.27	0.80	Power Power		0.00	P-va			r Power	0.00	0.00	Power	0.00 r-50% r-50%		P-val P-val			2 Power Power			Powe	r-50% r-50%		P-val	ue ue	yz
Stouffer's 50389C/50389 51091C/51091 62802C/50226	3 3		0.00	0.00	4 0	0.00	0.00	-	0	1.000	3 5 1	0.00 0.00 0.00	0.00	0	0.00	0.00	-	•	1.000	3 5 1	0.00 0.00 65.00		0 0	0.00	5.00 0.00 2.50	-	-	0.391
Habitat Mean Fisher's Stouffer's	ns Pov	er	0.00	0.00	Power Power			P-va P-va			z Power Power	0.00	0.00		0.00 r-50% r-50%		P-val P-val			z Power Power			Powe	2.50 r-50% r-50%			ue	yz

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

Table C-5.396. Page 1. December 15, 1994

Total Substrate

				Tota.	l Substra	te																			
Site Pair Mv	d N	С	SE	N	0	SE	c	V D	Þ	N	¢	SE	N	0	SE	CA D	₽	N	С	SE	N	O	SE	CV E	P
50389C/50389 1 51091C/51091 1 52802C/50226 1	1	98.75 100.00 100.00	1.25 0.00	0	99.50	0.5 - 2.5	Ξ.	_	0.513																
Habitat Means		99.60	0.65		98.50	1.5	0	+																	
Fisher's Stouffer's	Powe Powe				r-50%	1.000			0.426 0.414	Power Power			Power-			P-value P-value		Power Power			Power Power			P-value P-value	
50389C/50389 2 51091C/51091 2 62802C/50226 2	1	100.00 100.00 96.67	1.67		97.50 100.00	1.9 - 0.0	-	- + 	0.184																
Habitat Means		98.90	1.70		98.75	0.9	5	-																	
Fisher's Stouffer's	Powe Powe				r-50% r-50%		P-V			z Power Power			Power-					Power Power			Power Power	-50% -50%		P-value P-value	
50389C/50389 3 51091C/51091 3 62802C/50226 3	5	80.83 100.00 100.00	16.73 0.00	0	80.63 66.87	13.7 - 16.2	_	- + - - +	0.879																
Habitat Means		93.60	8.35		73.75	15.0	15	ř																	
Fisher's Stouffer's	Powe				er-50% er-50%			alue alue		<pre>2 Power Power</pre>			Power-			P-value P-value		Power Power			Power Power	-50% -50%		P-value P-value	

Table C 5.296. Page 3. December 15, 1994

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

Table C-5.397. Algal Perceit Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Estuarine. May 1991. Overstory removed June 1990.

Results of statistical differences between nears of control and oiled site pairs. MVD - meter vertical drop; N = sample size; C control mean; CV = confficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes insufficient data.

				Algal	Diver	sity [r	ndex (a)						Alga	1 Ta:	xa Richn	éas (p)							Tot	tal Algae				
Site Pair Mv	ra 1	N		SE	n n	0	SE	CV	D	P	N	С	SE	N	0	SE	С	V D	P	N	С	SE	N	0	3E	CV I	D	P
C15.1C/C15.1 1 50981C/50221 1 50981C/50981 1		2	0.26 0.12 0.12	0.14 0.12 0.12	5	0.06 0.16 0.14	0.00 0.07 0.08	-	-	0.202 0.756 0.910	3 2 2	2.00 1.50 1.50	0.58 1.50 1.50	5	0.40 1.80 1.25	0.24 0.3 0.4	7 3	- + 	0.024 0.779 0.841	3 2 2	24.17 22.50 22.50	10.44 22.50 22.50	5 4	1.50 37.96 6.25	1.00 16.32 2.17		1	0.008 0.534 0.586
Habitat Means Fisher's Stouffer's		ower	0.17 0.)59 0.)14	0.13	Power Power					0.713 y 0.689	Power Power	0.342	1.19		1.15 er-50% er-50%		2-v		0.072 0.104	Power Power		18.47 	Powe	r-50% er-50%		-valu		
C15.1C/C15.1 2 50981C/50221 2 50981C/50981 2	2 :	1	0.04 0.24 0.24	0.04	4	0.00	0.00 0.08 0.09	-		0.500	2 1 1	1.50 2.00 2.00	0.50	4	0.50 1.25 1.40	0.29 0.6 0.7	3	- :	0.132	2 1 1	28.75 32.50 32.50	26.25 	5	11.87 54.08 38.00	8.25 L8.10 L7.77	-	+ - -	0.468
Habitat Means			0.17	0.04		0.08	0.06		•		_	1.83	0.50		1.05 er-50%	0,5		alue		, Power	31.27	26.30		34.67 er-50%	14.73		e	vz
Fisher's Stouffer's		ower.			Power Power			p val:		z	Power Power				er-50%			alue		Power	-			er-50%	F	-valu		
C15.1C/C15.1 3 50981C/50221 3 50981C/50981 3	3	2	0.59 0.44 0.44	0.02	ō	0.01	0.07 0.04	-		0.010	1 2 2	4.00 3.50 3.50	0.50		0.75 1.50	0.4	_	- + - +	0.106	2 2	80.00 63.15 63.15	36.85 36.85	0	3.75 21.90	2.98 8.10	-		0.389
Habitat Means		-	0.49	0.02		0.0	0.06		+			3.67	0.50		1.13	0.4		,			68.80	36.90		12.85	5.55		1	
Fisher's Stouffer's		ower			Power Power			P-val P-val		2	Power Power				er-50% er-50%			ralue ralue		z Power				er-50% er-50%		-valu -valu		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 prection of difference between babiat means is different that disperien of overall tests.
z Only one site pair.

Table 2-5.397. Page 1. December 15, 1994

				To	otal I	nvartebra	ites								Rock								Pere	nnials (2)			
Site Pair	Mvd	N	с	Ф		0	Ф	ÇV	D	P	N	С	SE	N	0	SE	ÇV	D	P	N	c .	SE	N	0	SE	CA	D	P
C15.1C/C15. 50981C/5022 50981C/5098	1 1	3 2 2	0.00 2.50 2.50	0.00 2.50 2.50	5	22.00 0.50 0.00	11,6 0,5 0.0	0 –		0.063 0.357 0.500	3 2 2	75.83 57.50 57.50	10.44 37.50 37.50	5	76.50 45.86 90.63	11,22 15,20 4.72	-		0.864 0.658 0.262	3 2 2	8.33 1.25 1.25	4.17 1.25 1.25	5	1.50 34.28 2.50	1.00 16.29 1.44	-	- -	0.183 0.205 0.775
Habitat Mea	ns		1.67	1.67		7.50	4.0	7	+			63.60	28.47		71.00	10.37		-		_	3.63	2.27		12.77	6.23 0.514		lue	0 355
Fisher's Stouffer'		Power	0.042		Power Power					0.392xy 0.560	Power Power			Power		0.468 0.468			0.365	Power Power	0.10			er-50% er-50%	0.490			
C15.1C/C15. 50981C/5022 50981C/5098	1 2	2 1 1	0.00	0.00	- 4	16.88 1.88 0.50	8.5 1.8 0.5	8 -		0.096	2 1 1	71.25 52.50 52.50	26.25	4	71.25 36.25 52.50	5.99 21.76 19.62	-	+	0.807	2 1 1	27.50 7.50 7.50	25.00	4	11.87 36.58 22.00	8.25 19.74 16.02	-		0.482
Habitat Mea			0.00	0.00)	6.43	3.6	3	-			58.77	26.30		53.37	15.80	+	0			14.17	25.00		23.50	14.67		-	
Fisher's Stouffer'		Power			Powe:	r-50% r-50%		P-va P-va			z Power Power				r-50% r-50%		P-val P-val		y	z Power Power				er-50% er-50%		P-va P-va		yz
C15.1C/C15. 50981C/5022 50981C/5098	1 3	1 2 2	0.00 5.00 5.00	5.00 5.00	o o	3.13	3.1 0.0			0.500	1 2 2	20.00 17.50 17.50	17.50 17.50	ō	91.88 78.15	4,13 8,15	_		0.145	1 2 2	20.00 7.50 7.50	7.50 7.50	Ö	3.13 21.30	3.13 7.50	-		0.337
Habitat Mea			3.33	5.00)	1.55	1.5	5	+			18.33	17.50		85.05	6.15	,	-			11.67	7.50		12.20	5.30		_	
Fisher's Stouffer'		Power Power			Power Power	r-10% r-10%		P-va F-va			z Power Power				r-50% r-50%		P-va P-va			z Power Power				er-50% er-50%		P-va P-va		7

x At least one site pair p-value < 0.100 in opposite direction of overall tests. y direction of difference between habitat means is different then direction of overall tests. τ only one site pair.

Table C-5.397. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Renai. Estuarine. May 1991. Overstory removed June 1990. (Continued.)

				Ann	uals (A)								Ephem	erals (A	E)												_
Site Pair Mv	rd N	С	SE	N	0	SE	ÇV	D	P	N	с	SE	N	0	SE	CV I	F	<u> </u>	N	С	SE	N	0	SE	CV D	P	
C15.1C/C15.1 1 50981C/50221 1 50981C/50981 1	L 2	15.83 21.25 21,25	9.39 21.25 21.25	5	0.00 3.66 3.75	0.00 2.48 2.17	-	+	0.201 0.350 0.459	3 2 2	15.83 21.25 21.25	9.39 21.25 21.25	5	0.00 3.66 3.75	0.00 2.48 2.17	- +	0.2 0.3 0.4	150									
Habitat Means		19.47	17.33		2.50	1.57		+			19.47	17.33		2.50	1.57	+											
Fisher's Stouffer's	Power Power				r-50% r-50%		P-val P-val	ле	0.087 0.044	Power Power				r-50% r-50%		P-value P-value	0.0	144	Power Power			Power Power			P-value P-value		
C15.1C/C15.1 2 50981C/50221 2 50981C/50981 2	2 1	1.25 25.00 25.00	1.25 	4	0,00 0.00 16.00	0.00 0.00 11.25	-	+	0.500	2 1 1	1.25 25.00 25.00	1.25	4	0.00 0.00 16.00	0.00 0.00 11.25	- 4		500 									
Habitat Means		17.10	1.30		5.33	3.77		+			17.10	1.30		5.33	3.77	4	-										
Fisher's Stouffer's	Power Power				r-50% r-50%					z Power Power				r-50% r-50%		P-value P-value			Power Power			Power Power			P-value P-value		
C15.1C/C15.1 3 50981C/50221 3 50981C/50981 3	32	60.00 55.65 55.65	44.35 44.35	ō	0.63	0.63	-		0,282	1 2 2	60.00 51.90 51.90	48.10 48.10	0	0.00	0.00 0.65	-	-	354									
Habitat Means		57.13	44.40		0.65	0.65		+			54.60	48.10		0.35	0.35	+	+										
Fisher's Stouffer's	Power Power				r-50% r-50%					z Power Power				r-50% r-50%		P-value P-value			Power Power			Power Power			P-value P-value		

Table C 5.397. Page 3. December 15, 1994

x At least one site pair p value < 0.100 in opposite direction of 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. 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	Chlorop	hyta					Morph	nologi	cal (Group: B.	aded Gr	een#					Bla	ded G	rtens (AE	(a)			
Site Pair	Mv	1 N	С	se	N	0	SE	CV	D	P	N	С	8E	N	٥	SE	CA E		P	N	c	SE	N	٥	SE	CΛ	ם	P
C15.1C/C15. 50981C/5022 50981C/5098	21 1	2	15.83 2.50 2.50	9.39 2.50 2.50	5	0.00 3.16 3.75	0.00 2.05 2.17	-	- 0.	.201 ,999 ,716	3 2 2	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 2.00 0.00	0.00 2.00 0.00	- c	0	.000 .374 .000	3 2 2	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 2.00 0.00	0.00 2.00 0.00	-	-	1.000 0.374 1.000
Habitat Mea	ns		6.93	4.80	,	2.33	1.43		-			0.00	0.00		0.67	0.67	-				0.00	0.00	ı	0.67	0.67		-	
Fisher's Stouffer'	s	Power Power				r-50% r-50%		P-valu P-valu		,723 y I .701 I	Power Power				r-50% r-50%		-value		.409 .304	Power Power				r-50% r-50%				0.409 0.304
C15.1C/C15. 50981C/5022 50981C/5098	1 2	1	1.25 0.00 0.05	1.25	4	0.00 17.50 2.00	0.00 17.50 2.00	-	-	.500	2 1 1	0.00 0.00 0.00	0.00	4	0.00 0.00 0.50	0.00 0.00 0.50	- c		.000	2 1 1	0.00 0.00 0.00	0.00	4	0.00 0.00 0.50	0.00 0.00 0.50	-	0	1.000
Habitat Mea	ins		0.43	1.30		6.50	6.50					0.00	0.00		0.17	0.17	c				0.00	0.00	1	0.17	0.17		0	
Fisher's Stouffer'	s	Power Power				r-50% r-50%		P-valu P-valu		yz I	Power Power				r-50% r-50%		-value -value		yz	Power Power				r-50% r-50%		-val		yz
C15.1C/C15. 50981C/5022 50981C/5098	1 3	2	40.00 35.65 35.65	34.35 34.35	ō	0.00	0.00 0.65	-		 .379	1 2 2	27.50 8.15 8.15	6.85 6.85	ō	0.00	0.00	- I - +	0	.323	2 2	27.50 8.15 8.15	6.85 6.85	ō	0.00 0.65	0.00 0.65	- - -		 0.323
Habitat Mea	ins		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 Stouffer'	s	Power Power				r-50% r-50%		P-valu P-valu			Power Power				r-50%		-value -value		,	Power Power	~			r-50% r-50%		-val		z

(a) Kortwannia, 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 babitat means is different than direction of overall tests. y Only one site pair.

Morphological Group: Fine Filamentous Greens Cladophora sp. (AE) Ulothrix sp. (AE) Site Pair Mvd N C SE N SE CV D P N C SE SE מ עיי P Ω N n C ЯR SE N N 0 CA D P 50981C/50221 1 2 Ç. 03 U.VU U - U U V.4V6 Ų. ŲU υ.υν Q 0.00 0.00 0.00 0.00 D _.000 5 0.00 0.00 0.00 0.00 - o 1.000 0.00 0.00 0.00 0.00 -1.000 0.00 0.00 0.00 0.00 - o 1.000 0 50981C/50981 1 0.00 0.00 2.50 2.50 0.391 0.00 0.00 0.00 0.00 0 1.000 0.00 0.00 0.00 0.00 - 0 1.000 3.07 0.00 1.93 0.83 0.83 0.00 0.00 0.00 0.00 0.00 Habitat Means 0.00 0.00 Power-50% 0.070 P-value 0.385 Power-50% Fisher's Power 0.022 Power --- P-value 0.655 Power Power-50% --- P-value 0.655 Stouffer's Power 0,002 Power-50% 0.036 P-value 0.408 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 - 0 - o 1.000 0.00 0 1.000 0.00 4 0.00 0.00 1.000 0.00 0.00 4 0.00 0.00 50981C/50221 2 50981C/50981 2 0.00 0.00 0.00 17.50 17.50 0.00 - o - o -------0.00 -0 0.00 0.00 - 0 0.00 --0.00 0.00 0 0.00 --5 0.00 0.00 0.00 --0.00 0.00 ---Habitat Means 0.00 0.00 5.83 5.83 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 --- yz Fisher's Power Power-50% --- P-value Power Fower-50% --- P-value z Power Power-50% P-value Stouffer's Power Power-50% P-value ---Power ___ Power-50% P-value Powe≚ Power-50% P-value 0.00 0.00 - 0 C15.1C/C15.1 3 0.00 0.00 ---4 0.00 0.00 ---0.00 0.00 0.00 ___ 27.50 50981C/50221 3 27.50 27.50 0 27.50 0 0.00 0.00 50981C/50981 3 27.50 27.50 0.00 0.00 - + 0.500 27.50 27.50 2 0.00 0.00 - + 0.500 0.00 0.00 2 0.00 0.00 - o 1.000 18.33 27.50 18.33 27.50 0.00 0.00 0.00 Habitat Means 0.00 0.00 0.00 0.00 0.00 0 Fisher's Power Power-50% --- P-value --- z Power Power-50% --- P-value --- z Power Power-50% --- P-value ------ Power Stouffer's Power-50% --- P-value --- Power Power-50% --- P-value 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-5.398. Rege 1. December 15, 1

Table C-5.398. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Estuarine. May 1991. Overstory removed June 1990. (Continued.)

				τ	rospo	ra sp.	(AE)				Мо	rphologic	al Gro	oup:	Tubular	and Sac	cat	e Gre	en	.6		в	lidingi	a/Ente	eromorp	ta (AE)	(a)		
Site Pair M	vd	N	¢	SE	N	0	SE	CV	D	P	N	c	SE	N	0	SE	c	v D		P	N	С	SE	N	0	SE		CA D	P
C15.1C/C15.1 50981C/50221 50981C/50981	1	2	9.17 0.00 0.00	5.83 0.00 0.00	5	0.00 0.00 2.50	0.00 0.00 2.50	-	0	0.208 1.000 0.391	3 2 2	6.67 2.50 2.50	3.63 2.50 2.50	5	0.00 1.16 1.25	0.00 1.16 0.72			0	.191 .553 .749	3 2 2	6.67 2.50 2.50	3.63 2.50 2.50	5	0.00 1.16 1.25	0.00 1.16 0.72	2		0.191 0.553 0.749
Habitat Means			3.07	1.93		0.83	0.83		+			3.90	2.87		0.83 r-50%	0.63 0.451		ralue	0	.161	Power	3.90 0.411	2.87	Power	0.83	0.63		+ value	0.161
Fisher's Stouffer's		ower	0.020		Power Power			P-val P-val		0.385 0.408	Power Power	0.410			r-50%					.100	Power			Power	r-50%		P-	value	0.100
C15.1C/C15.1 50981C/50221 50981C/50981	2	1	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0 0	1.000	2 1 1	1.25 0.00 0.00	1.25	4	0.00 0.00 1.50	0.00 0.00 1.50	1	- + - 0 		 	2 1 1	1.25 0.00 0.00	1.25	4	0.00 0.00 1.50		0	- 0	0.500
Habitat Means			0.00	0.00		0.00	0.00		0			0.43	1.30		0.50	0.50	1	+				0.43	1.30		0.50			+	
Fisher's Stouffer's		Power			Power			P-val P-val		2	Power Power				er-50% er-50%			alue alue		yz	Power Power				c-50% c-50%			value value	yz
C15.1C/C15.1 50981C/50221 50981C/50981	3	2	0.00 0.00 0.00	0.00	ō	0.00	0.00	-	0	1.000	1 2 2	12.50 0.00 0.00	0.00		0.00	0.00		- + - - 0	1		1 2 2	0.00 0.00	0.00	Ō	0.00	0.00	- 0	- + - o	1.000
Habitat Means			0.00	0.00		0.00	0.00		0			4.17	0.00		0.00	0.00)	0				4,17	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power			Power Power			P-val P-val		1	Power Power				er-50% er-50%			ralue ralue		yz	Power Power			Power Power	r-50% r-50%			value value	yz

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

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	Phaeoph	yta				Morr	hologi	cal	Group:	Bladed Br	Owns					Tota	1 Fuc	us gardn	eri (P)			
Site Pair)	Mvd	N	c	SE	N	0	SE	ÇV I	P	N	c	SE	N	0	SE	CV I)	P	N	С	SE	N	0	SE	cv	D	P
C15.1C/C15.1 50981C/50221 50981C/50981	1		8.33 20.00 20.00	4.17 20.00 20.00		1.50 20.78 2.50	1.00 7.73 1.44		0.74	5 2	8.33 1.25 1.25	4.17 1.25 1.25	5	1.50 20.28 2.50	1.00 7.34 1.44		0.	.183 .120 .775	3 2 2	8.33 1.25 1.25	4.17 1.25 1.25		1.50 20.28 2.50	1.00 7.34 1.44	-	-	0.183 0.120 0.775
Habitat Means	5		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 Stouffer's		Power	0.407 0.376		Power			P-value P-value			0.139 0.066			er-50% er-50%		P-value P-value		.260 .385	Power Power	0.140			er-50% er-50%	0.534 0.514			0.260 0.385
C15.1C/C15.1 50981C/50221 50981C/50981	2	1	27.50 32.50 32.50	25.00 	4	11,87 30,95 36,00	8.25 17.48 16.89			- 1	27.50 7.50 7.50	25.00 		11.87 30.95 22.00	8.25 17.48 16.02	- +	- 0. -	.482 	2	27.50 7.50 7.50	25.00 	4	11.87 30.95 22.00	8.25 17.48 16.02	_	- -	0.482
Habitat Means	s		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 Stouffer's		Power Power			Power			P-value P~value						er-50% er-50%		P-value P-value			Power Power				er-50% er-50%		P-val P-val		yz
C15.1C/C15.1 50981C/50221 50981C/50981	3	2	40.00 27.50 27.50	2.50 2.50	ō	1.88	1.88 7.50	-	_ ==	- 2	20.00 7.50 7.50	7.50 7.50	ō	1.88 21.30	1.88 7.50	-	- 0.	.337	1 2 2	20.00 7.50 7.50	7.50 7.50		1.88 21.30	1.88 7.50	-		0.337
Habitat Means	s		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 Stouffer's		Power Power			Power Power			P-value P-value						er-50% er-50%		P-value P-value		yz	Power Power				er-50% er-50%		P-val P-val		уг

x At least one site pair p-value < 0.100 in opposite direction of overall tests, γ bivection of difference between habitat means is different than direction of overall tests. z buy one site pair.

Table C 5.199. Page 1. December 15, 1994

			Ađ	ult Fuc	cus (yardneri (P) (>	2cm)			Juven	ile F	acus.	gardneri	(P) (<=	2cm)					Fue	cus St	ipes (P)	(a)			
Site Pair M	Hvd N		¢	SE	N	0	SE		CV D	P	N	С	SE	N	٥	SE	ĊV	D	P	N	С	SE	n	0	SE	CV	D	P
C15.1C/C15.1 50981C/50221 50981C/50981	1 2		7.50 0.00 0.00	3.82 0.00 0.00	5	1.50 16.56 2.50	1. 6. 1.	67			3 2 2	0.83 1.25 1.25	0.83 1.25 1.25	5	0.00 3.74 0.00	0.00 1.77 0.00	-	-	0.423 0.440 0.500	3 2 2	0.00 0.00 0.00	0.00 0.00 0.00	5 4	0.00 0.00 0.00	0.00 0.00 0.00	-	0 1	1.000 1.000 1.000
Habitat Means	3		2.50	1.27		6.87	З.	03	-			1.13	1.13		1.23	0.60		+			0.00	0.00		0.00	0.00		O	
Fisher's Stouffer's		wer				er-50% er-50%				0.025 0.081	Power Power	0.032 0.037			er-50% er-50%				0.382 y 0.342	Power Power			Power			-valu -valu		
C15.1C/C15.1 50981C/50221 50981C/50981	2 1		25.00 7.50 7.50	25.00	4	11.87 30.32 21.50	8, 17. 16.	79	- + 	0.688	2 1 1	2.50 0.00 0.00	0.00	4	0.00 0.63 0.50	0.00 0.63 0.50	- - -	+ - -		2 1 1	0.00 0.00 0.00	0.00		0.00 0.00 0.00	0.00 0.00 0.00	-	o :	1.000
Habitat Means	s	3	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 Stouffer's		wer				er-50% er-50%			value value	y	z Power Power				er-50% er-50%		P-valı P-valı			Power Power				-50% -50%		>-valu >-valu		v
C15.1C/C15.1 50981C/50221 50981C/50981	3 2		20.00 7.50 7.50	7.50 7.50	ō	1.88 21.30		88 50	- r 	0.337	2 2	0.00 0.00 0.00	0.00	0	0.00	0.00 0.00	-	0	1.000	1 2 2	0.00 0.00 0.00	0.00		0.00	0.00	- -	o o :	1.000
Habitat Means	s	1	L1.67	7.50		11.60	4.	70	-			0.00	0.00		0.00	0.00		Q			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		wer				er-50% er-50%			value value	y	z Power Power				er-50% er-50%		P-valı P-valı		;	Power Power				-50% -50%		P-valu P-valu		z

(a) Dead Furus plants or stipes without bisdoe. **X ** tleast one slite pair** p-value < 0.138 in opposite direction of overall cests. **J Direction of difference between habitat means is different than direction of overall tests. **Z Only one site pair.

Table C-5.399. Algal Percent Cover. Phaeophyta. Cook Inlet/Kenai. Estuarine. May 1991. Overstory removed June 1990. (Continued.)

	Petalonia/Punctaria (AE) (b)										м	orphologi	cal Gr	oup:	Coarse 1	7ilament	ous	Brov	m.g		м	yelophy	ycus/	Scytosiph	on (A) ((a)			_
Site Pair Mv	d N	С	SE		N	0	SE		V D	P	N	С	SE	N	0	SE	cv	ם	P	N	С	SE	N	0	ŝe	c	V D	P	
C15.1C/C15.1 1 50981C/50221 1 50981C/50981 1	. 2	0.00 0.00 0.00	0.	00 00 00	5 5 4	0.00 0.00 0.00	0.0 0.0	0	- o - o	1.00	2	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	ő	1.000 1.000 1.000	0 2	0.00 0.00 0.00	0.00 0.00 0.00	5	0.03 0.03 0.03	0.00 0.00 0.00			1.00 1.00 1.00	0.0
Habitat Means		0.00	0.	00		0.00	0.0	0	0			0.00	0.00		0.00	0.00		0			0.00	0.00	•	0.03	0.00		0		
Fisher's Stouffer's	Powe Powe				Power				alue alue	0. 6 5 0.50					er-50% er-50%		P-va P-va	lue lue	0.65					er-50% er-50%				0.65	
C15.1C/C15.1 2 50981C/50221 2 50981C/50981 2	2 1	0.00 0.00 0.00		00	4 4 5	0.00 0.00 0.00	0.0 0.0 0.0	0	- o - o		- 1	0.00 0.00 0.00	0,00 	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.00	- 1	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00		- o - o		
Habitat Means		0.00	0.	00		0.00	0.0	0	0			0.00	0.00		0.00	0.00		O			0.00	0.00)	0.00	0.00		0		
Fisher's Stouffer's	Powe Powe	-			Power Power				alue alue						er-50% er-50%		P~va P~va							5x-20%			/alue /alue		z
C15.1C/C15.1 3 50981C/50221 3 50981C/50981 3	3 2	0.00 0.00 0.00	0.	00	4 0 2	0.00	0.0	-	- o -		- 2	0.00 3.75 3.75	3.75 3.75		0.00 0.00	0.00	-	-	0.50	- ž	0.00 3.75 3.75	3.75 3.75	0	0.00 0.00	0.00 0.00		- o 		00
Mabitat Means		0.00	0.	00		0.00	0.0	0	0			2,53	3.80		0.00	0.00	II	1			2.53	3.80]	0.00	0.00)	-		
Fisher's Stouffer's	Powe Powe				Power Power				alue alue						er-50% er-50%		P-va P-va							er-50%			value value		z

⁽b) Genera not separaced.

	Morphological Group		roup:	Fine Fi	llamento	ous B	rowi	18		Fi	ne Fila	ment	ous Brown	s (AE)	(b)	_												
Site Pair	Mvd	i N	c	SE	N	•	SE	cv	D	P	N	c	SE	N	0	SE	CV I	D	P	N	С	SE	N	0	SE	CV	D	P
015.1C/C15. 0981C/5022 0981C/5098	1 1	2	0.00 18.75 18.75	0.00 18.75 18.75	5	0.00 0.50 0.00	0.00 0.50 0.00	-	+	1.000 0.531 0.500	3 2 2	0.00 18.75 18.75	0.00 18.75 18.75	5	0.00 0.50 0.00	0.00 0.50 0.00		-	1.000 0.531 0.500									
Habitat Mea	ns		12.53	12.53		0.17	0.17		+			12.53	12.53		0.17	0.17		+										
Fisher's Stouffer'		Power			Power Power					0.339 0.227	Power Power				er-50% er-50%		?-value ?-value		0.339	Power Power			Power Power			P-va. P-va.		
015.10/015. 09810/5022 09810/5098	1 2	1	0.00 25.00 25.00	0.00	4	0.00 0.00 14.00	0.00 0.00 9.44	-	o + +	1.000	2 1 1	0.00 25.00 25.00	0,00	4	0.00 0.00 14.00	0.00 0.00 9.44		o + +	1.000									
Habitat Mea	ns		16.67	0.00		4.67	3.13		0			16.67	0.00		4.67	3.13	1	0										
Fisher's Stouffer'		Power			Power Power			P-va P-va		y:	Power Power				er-50% er-50%		P-valu P-valu		y	Power Power			Power Power			P-val P-val		
C15.1C/C15. 50981C/5022 50981C/5098	1 3	2	20.00 16.25 16.25	13.75 13.75	ō	0.00	0.00	-	+	0.330	1 2 2	20.00 16.25 16.23	13.75 13.75		0.00	0.00 0.00	-		0.330									
Habitat Mea	ns		17.53	13.80		0.00	0.00)	+			17.53	13.80		0.00	0.00		+										
Fisher's Stouffer'		Power			Power Power			P-val P-val		:	Power Power				er-50% er-50%		P-valu P-valu			Power			Power Power			P-val P-val		

⁽b) Elachista, Ectocarpus and Pilayella.

⁽a) Genera not separated. X At least one site pear p value < 0.100 in opposite direction of overall tests. Y Direction of difference between habitat means is different than d)rection of overall tests. 2 Only one site pair.

x At least one site pair p value < 0.100 in opposite direction of overall tests, y Direction of difference between habitat means is different than direction of overall tests. 2 Only one site pair.

Table C-5.400. Algal Percent Cover. Rhodophyta. Cook Inlet/Renai. 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.

					Tota:	l Rhodophy	rta					Mor	pholog	ical	Group:	Bladed F	abe					1	Palmar	ìa spp.	(A)			
Site Pair	Mvd	N	С	88	N	0	SE	CV	D	P	N	С	SE	N	0	SE	CV	D	P	N	с	SE	N	0	SE	CA	D	P
C15.1C/C15.1 50981C/50221 50981C/50981	. 1	2	0.00 0.00 0.00	0.00	5	0.00 14.00 0.00	0.0 14.0 0.0	J ~	-	1.000 0.374 1.000	3 2 2	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1,000 1,000 1,000	3 2 2	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00		a	1.000 1.000 1.000
Habitat Mean	ıs		0.00	0.00		4.67	4.6	7	-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power				er-50% er-50%				0.409 0.304	Power Power				r-50% r-50%		P-valu P-valu		0.655 0.500	Power Power				r-50% r-50%				0.655 0.500
C15.1C/C15.1 50981C/50221 50981C/50981	. 2	1	0.00 0.00 0.00	0.00	4	0.00 5.62 0.00	0.0 5.6 0.0	3 -		1.000	2 1 1	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0 0	1.000	2	0.00 0.00 0.00	0.00	4	0.00	0,00 0,00 0.00		0	1.000
Habitat Mean	15		0.00	0.00		1.87	1.8	7	o			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power				er-50% er-50%		P-va P-va		ya	Power Power				r-50% r-50%		P-valu P-valu		;	Power				c=50% c=50%		e-valı e-valı		z
C15.1C/C15.1 50981C/50221 50981C/50981	. 3	1 2 2	0.00 0.00 0.00	0.00	ō	1.88 0.00	0.0	-		1.000	1 2 2	0.00 0.00 0.00	0.00	ō	0.00	0.00	-	0	1.000	1 2 2	0.00 0.00 0.00	0,00		0.00 0.00	0.00	-	0	1.000
Habitat Mean	15		0.00	0.00		0.95	0.5	3	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power				er-50% er-50%		P-va P-va		yz	Power Power				r-50% r-50%		P-valu P-valu			Power Power				c-50% c-50%		?-val:		z

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

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	_			_	Porph	yra sp. ((A)					Morpholog	ical o	roup	: Coarse	Filamer	tous	Red	9			Crypt	tosiph	onia woo	dii (A)			
Site Pair	Mvd	N	С	SE	N	0	SE	CA	D	P	N	С	SE	N	o	SE	cv	ם	P	N	С	SE	N	0	SE	CV I)	P
C15.1C/C15.1 50981C/50221 50981C/50981	1 1	2	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	3 2 2	0.00 0.00 0.00	0.00	5	0.00 0.00 0.00	0.00 0.00	-	0	1.000 1.000 1.000	3 2 2	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	- 6	, 1	.000
Habitat Mear	ns		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00			
Fisher's Stouffer's		Power Power				r-50% r-50%				0.655 0.500	Power Power				r-50% r-50%		P~valu P~valu		0.655 0.500	Power Power				c-50% c-50%		-value -value		
C15.1C/C15.1 50981C/50221 50981C/50981	1 2	1	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00		0 0 0	1.000	2 1 1	0.00 0.00 0.00	0.00	4	0.00 1.25 0.00	0.00 1.25 0.00	-	-	1.000	2	0.00 0.00 0.00	0.00		0.00 0.00 0.00	0.00 0.00 0.00	- c		.000
Habitat Mean	ns		0.00	0.00		0.00	0.00		0			0.00	0.00		0.43	0.43		0			0.00	0.00		0.00	0.00	c		
Fisher's Stouffer's		Power Power				r-50% r-50%	F	-val			z Power Power				r-50% r-50%		P~valu P~valu		yz	Power Power				-50% -50%		-value -value		z
C15.1C/C15.1 50981C/50221 50981C/50981	1 3	2	0.00 0.00 0.00	0.00 0.00	ō	0.00 0.00	0.00	- - -	_	1,000	1 2 2	0.00 0.00 0.00	0.00	ō	1.25	0.00	-	- 0	1,000	1 2 2	0.00 0.00 0.00	0.00 0.00	0	0.00	0.00	- c		.000
Habitat Mean	ns		0.00	0.00		0.00	0.00		0			0.00	0.00		0.65	0.65		О			0.00	0.00		0.00	0.00	c		
Fisher's Stouffer's		Power Power				r-50% r-50%	3			;	2 Power Power				r-50% r-50%		P-valu P-valu		yz	Power Power				r=50% r=50%		-value -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.
y Only one site pair.

Table C-5.400. Algal Percent Cover. Rhodophyta. Cook Inlet/Renai. Estuarine. May 1991. Overstory removed June 1990. (Continued.)

				G1oi	opelt	is furcat	a (A)					Ne	orhodo	mela	/Rhodomel	a (P) (a)					Ođor	nthali	a flocco	sa (P)			
Site Pair	Mvd	N	С	SE	N	0	SE	CA	D	P	N	С	SE	N	0	SE	CV	D	P	Ŋ	С	SE	N	0	SE	CA I)	P
C15.1C/C15.7 50981C/5022 50981C/5098	1 1	2	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	- - -	0	1.000 1.000 1.000	3 2 2	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	3 2 2	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	- (1	.000 .000 .000
Habitat Mean	ns		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	(,	
Fisher's Stouffer's		Power Power			Power Power					0.655 0.500	Power Power				r-50% r-50%		P-va P-va		0.655 0.500	?ower Power				r-50% r-50%		-value		.655 ,500
C15.1C/C15. 50981C/5022 50981C/5098	1 2	1	0.00 0.00 0.00	0.00	4	0.00	0.00 0.00 0.00	- - -	0	1.000	2 1 1	0.00 0.00 0.00	0.00	4	0.00 1.25 0.00	0.00 1.25 0.00	-	-	1.000	<u>2</u>	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- (- (,	.000
Habitat Mean	ns		0.00	0.00		0.00	0.00		0			0.00	0.00		0.43	0.43		٥			0.00	0.00		0.00	0.00	()	
Fisher's Stouffer's		Power Power			Power Power			P-val P-val			Power Power				r-50% r-50%		P-va P-va		yz	Power Power				r-50% r-50%		-value		2
C15.1C/C15.1 50981C/50221 50981C/50981	1 3	2 2	0.00 0.00 0.00	0.00	ō	0.00	0.00	-	0	1.000	1 2 2	0.00	0.00 0.00		0.00	1.25 0.00	-		1.000	1 2 2	0.00 0.00 0.00	0.00	ō	0.00	0.00	- (.000
Habitat Mea	ກຣ		0.00	0.00		0.00	0.00		o			0.00	0.00		0.65	0.65		0			0.00	0.00		0.00	0.00		:	
Fisher's Stouffer's		Power Power			Power					:	Power Power				r-50% r-50%		P-va P-va		yz	Power Power				r-50% r-50%		-value -value		z

(a) Genera not separated.

x At least one site pair p-value < 0.180 in opposite direction of overall tests. y direction of difference between habitat means is different than direction of overall tests. For one site pair.

Table C-5,400. Page 3. December 15, 1994

	Morphologie				oup:	Saccate	Reds					Ha.	losaco	cion spp.	(A)					Morpho	logical	Group:	Fine	Filament	ous Re	ds	
Site Pair	٠		SE	N	0	SE	CV	D	P	N	С	SE	N	٥	SE	CA	D	P	N	c	SE	N	0	SE	cv	D	P
C15.1C/C15.1 1 50981C/50221 1 50981C/50981	. 2	0.00 0.00 0.00	0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	3 2 2	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	O	1.000 1.000 1.000	3 2 2	0.00 0.00 0.00	0.00 0.00	5	0.00	0.00 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			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Power Power			Power-					0.655 0.500	Power Power				r-50% r-50%		-valu		0.655 0.500	Power Power			Power-			-valu		0.655 0.500
C15.1C/C15.1 2 50981C/50221 2 50981C/50981 2	2 1	0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00		0	1.000	2 1 1	0.00	0.00	4 5	0.00	0.00		0	1.000	2 1 1	0.00 0.00 0.00	0.00		0.00 0.00 0.00	0.00	-		000
Habitat Means		0.00	0.00		0.00	0.00)	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Fower Power			Power-S			P-va P-va			Power Power			Power Power	r-50% r-50%		-valu -valu		7	Power Power			Power-			-valu		z
C15.1C/C15.1 3 50981C/50221 3 50981C/50981 3	3 2	0.00 0.00 0.00	0.00	Ö	0.63	0.63	-		1.000	1 2 2	0.00 0.00 0.00	0.00		0.63	0.63	<u>-</u> -		1.000	1 2 2	0.00 0.00 0.00	0.00		0.00	0.00	-		.000
Habitat Means		0.00	0.00		0.30	0.30	1	0			0.00	0.00		0.30	0.30		0			0.00	0.00		0.00	0.00		5	
Fisher's Stouffer's	Power Power			Power-					,	Power Power			Power Power	r-50% r-50%		-valu -valu		y	Power Power			Power-		1 1	-valu		z

x. At least one site pair p-value < 0.100 in opposite direction of overall tests. y. Direction of difference between habital means is different than direction of overall tests. 2 Chly one site pair.

Table C-5.400. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Estuarine. May 1991. Overstory removed June 1990. (Continued.)

		Polysiphonia/Pterosiphonia (A) (a)										Morph	ologi	cal G	roup: C	rustose	Reds					Hil	denbr	andia sp.	(P)			
Site Pair 1	Mvd	N	c	SE	N	0	SE	CV	Þ	P	N	c	SE	N	0	SE	CA I	,	P	N	С	SE	Ŋ	0	SE	CV	D	P
C15.1C/C15.1 50981C/50221 50981C/50981	1	3 2 2	0.00 0.00 0.00	0.00	5	0.00 0.00 0.00	0.00 0.00 0.00		O	1.000 1.000 1.000	3 2 2	0.00 0.00 0.00	0.00	5 5 4	0.00 14.00 0.00	0.00 14.00 0.00		- 0	000).374 .000	3 2 2	0.00 0.00 0.00	0.00	5 4	0.00 14.00 0.00	0.00 14.00 0.00	-	0	1.000 0.374 1.000
Fisher's Stouffer's	:	Power Power	0.00	0.00	Power Power			P-val		0.655 0.500	Power Power	0.00	0.00		4.67 r-50% r-50%		P-value P-value			Power Power	0.00		Powe	4.67 r~50% r-50%		?-val	16	0.409 0.304
C15.1C/C15.1 50981C/50221 50981C/50981	2	1	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000	2 1 1	0.00 0.00 0.00	0.00	4	0.00 4.37 0.00	0.00 4.37 0.00		-	L.000 	2 1 1	0.00 0.00 0.00		4 5	0.00 4.37 0.00	0.00 4.37 0.00	-	0	1.000
Habitat Mean Fisher's Stouffer's		Power Power	0.00	0.00	Power			P- va l P-val		z	Power Power	0.00	0.00	Powe	1.47 r-50% r-50%		P-valu P-valu		yz 	Power Power	0.00		Powe	1.47 r-50% r-50%		P-val		yz
C15.1C/C15.1 50981C/50221 50981C/50981	3	1 2 2	0.00 0.00 0.00	0.00	Ö	0.00	0.00	-	0	1.000	1 2 2	0.00 0.00 0.00	0.00	ō	0.00	0.00	-		1.000	1 2 2	0.00 0.00 0.00	0.00	0	0.00	0.00	-	0	1.000
Habitat Mean Fisher's	s	Power	0.00	0.00	Power			P-val		7	Power	0.00	0.00		0.00 r-50% r-50%		P- va lu P- va lu			Power Power	0.00		Powe	r-20\$ r-20\$		P-val		z

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

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; D = probability value; dashes = insufficient data.

					Ba	lanomorpha								Lo	ottiidae								м	ytilus				
Site Pair	Mvd	N.	С	SE	N	0	SE	CV	D	P	N	c	SE	N	٥	SE	cv	D	P	N	C	SE	N	0	SE	cv	D	P
C15.1C/C15.1 50981C/50221 50981C/50981	1 1	3 2 2	0.00 2.50 2.50	0.00 2.50 2.50	5	20.00 0.50 0.00	11.40 0.50 0.00) –		0.102 0.357 0.500	3 2 2	0.00 0.00 0.00	0.00 0.00 0.00	5	0.50 0.00 0.00	0.50 0.00 0.00	-		0.374 1.000 1.000	3 2 2	0.00 0.00 0.00	0.00 0.00 0.00	5 4	1.00 0.00 0.00	0.61 0.00 0.00	-	Q	0.178 1.000 1.000
Habitat Mean	18		1.67	1.67		6.83	4.0)	+			0.00	0.00		0.17	0.17		-			0.00	0.00		0.33	0.20		-	
Fisher's Stouffer's		Power Power	0.079 0.017			er-50% er-50%				0.388 y 0.509	Power Power				r-50%		P-val		0.409	Power Power	0.000			r~50% r-50%				0.268 0.218
C15.1C/C15.1 50981C/50221 50981C/50981	12	2 1 1	0.00 0.00 0.00	0.00	4	15.63 1.88 0.50	7.8 1.8 0.5	3 -		0.093	2 1 1	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00		0	1.000	2 1 1	0.00 0.00 0.00	0.00	4	1.25 0.00 0.00	0.72 0.00 0.00	-	- 0 0	0.182
Habitat Mean	ns		0.00	0.00		6.00	3.4)	-			0.00	0.00		0.00	0.00		0			0.00	0.00		0.43	0.23		-	
Fisher's Stouffer's		Power Power				er-50% er-50%		P-va P-va		:	Power Power				er-50% er-50%		P-val P-val		:	Power Power				r-50% r-50%		P-val P-val		¿
C15.1C/C15.1 50981C/50221 50981C/50981	13	2 2	0.00 4.40 4.40	4.40 4.40	0	0.00 0.00	0.0	-	0	0.500	1 2 2	0.00 0.00 0.00	0.00	Ō	0.00 0.00	0.00	-	0	1.000	1 2 2	0.00 0.65 0.65	0.65 0.65	ō	3.13 0.00	3.13 0.00	-		0.500
Habitat Mear			2.93	4.40		0.00	0.0)				0.00	0.00		0.00	0.00		0			0.47	0.70		1.55	1.55		÷	
Fisher's Stouffer's		Power Power				er-50% er-50%		P-va P-va			Power Power				er-50% er-50%		P-val P-val		:	Power Power				r-50% r-50%	:			yz

 \times At least one site pair p-value < 0.100 in opposite direction of overall tests. y Direction of difference between habitat means is different than direction of overall tests. 2 Only one site pair.

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					Litt	orinidae	1																				
Site Pair	Mvd	N	С	8E	N	0	SE	CV	D P	N	С	SE	N	0	SE	ĊΛ	D	Þ	N	С	SE	N	0	SE	C.	, D	P
C15.1C/C15.1 50981C/50221 50981C/50981	1	2	0.00 0.00 0.00	0.00 0.00 0.00	5	0.50 0.00 0.00	0.50 0.00 0.00	-	- 0.374 o 1.000 o 1.000																		
Habitat Mean	S		0.00	0.00		0.17	0.17		-																		
Fisher's Stouffer's		Power Power			Power Power				e 0.409 e 0.304	Power Power			Power-			P-valu P-valu			Power Power			Power Power			P- v a		
C15.1C/C15.1 50981C/50221 50981C/50981	. 2	1	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	o 1.000 o																		
Habitat Mean	ıs		0.00	0.00		0.00	0.00		0																		
Fisher's Stouffer's		Power Power			Power			P-valu P-valu		z Power Power			Power-			P-valu P-valu			Power Power			Power Power			P-va P-va		
C15.1C/C15.1 50981C/50221 50981C/50981	. 3	2	0.00 0.00 0.00	0.00	ō	0.00	0.00	-	o o 1.000																		
Habitat Mean	ıs		0.00	0.00		0.00	0.00		0																		
Fisher's Stouffer's		Power Power			Power Power	c-50% c-50%		P-valu P-valu		z Power Power			Power Power						Power Power			Power Power			P-va		

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

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; r = control > oiled; r = control = oiled; P = probability value; dashes = insufficient data.

					ъk																		Sand					_
Site Pair My	d N	С	SE	N	0	SE	-	V D	P	N	c	SE	N	٥	SE	CV.	D	P	N	С	SE	N	0	SE	-	CV D	P	
C15.1C/C15.1 1 50981C/50221 1 50981C/50981 1	2	75.83 57.50 57.50	10.44 37.50 37.50	5	76.50 45.86 90.63	11.2 15.2 4.7	0.5	- - -	0.864 0.658 0.262	3 2 2	0.00 17.50 17.50	0.00 17.50 17.50	5	0.00 0.00 0.00	0.00 0.00 0.00	-	+	1.000 0.500 0.500	3 2 2	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 15.66 0.00	0.00 15.66 0.00)		1.000 0.374 1.000	
Habitat Means		63.60	28.47		71.00	10.3	37	-			11.67	11.67		0.00	0.00		+			0.00	0.00		5.23	5.23		-		
Fisher's Stouffer's	Power Power				r-50% r-50%	0.454 0.457			0.365 0.312	Power Power				r~50% r-50%				0.327 0.218	Power Power				≚-50% ≚-50%				0.409	
C15.1C/C15.1 2 50981C/50221 2 50981C/50981 2	1	71.25 52.50 52.50	26.25 	4	71.25 36.25 52.50	5.9 21.7 19.6	76	- 0 - + - 0	0.807	2 1 1	0.00 15.00 15.00	0.00	4	0.00 0.00 1.00	0.00 0.00 1.00	-	o + +	1.000	2 1 1	0.00 0.00 0.00	0.00	4	0.00 7.83 8.00	0.00 5.61 8.00		- o 	1.000	-
Habitat Means		58.77	26.30		53.37	15.8	90	0			10.00	0.00		0.33	0.33		0			0.00	0.00		5.27	4.53	\$	0		
Fisher's Stouffer's	Power Power				r-50% r-50%			alue value	y	z Power Power				r-50% r-50%		P-valu P-valu		уz 	Power Power				r-50% r-50%			value value		-
C15.1C/C15.1 3 50981C/50221 3 50981C/50981 3	2	20.00 17.50 17.50	17.50 17.50	0	91.88 78.15	4.1 8.1			0.145	1 2 2	0.00 14.40 14.40	14.40 14.40		1.25 0.00	0.00	-		0.500	1 2 2	0.00 0.00 0.00	0.00	ō	0.00	0.00		- o - o	1,000	
Habitat Means		18.33	17.50		85.05	6.1	15	-			9.60	14.40		0.65	0.65		-			0.00	0.00		0.00	0.00)	0		
Fisher's Stouffer's	Power Power				r-50% r-50%			/alue /alue		z Power Power				r-50% r-50%		P-valu P-valu		z 	Power Power				⊻-50% ⊻-50%			value value		_

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

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

2 Only one site pair.

Table C 5.402. Page 1. December 15, 1994

	Shell Fragmenta Mvd N C SE N O SE CV D											Fi	lamer	ntous Dist	ons						Zo	stera	/Phyllosp	adix			
Site Pair M	tvd N	С	SE	N	0	Я́В	cv	D	P	N	С	8E	N	U	BE	Ċν	ע	ע	N	U	31	N	U	35	~	D	P
C15.1C/C15.1 50981C/50221 50981C/50981	1 2	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	3 2 2	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 3.13	0.00 0.00 3.13	-	0	1.000 1.000 0.391	3 2 2	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000
Habitat Means	3	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		0	
Fisher's Stouffer's	Power Power				r-50% r-50%				0.655 0.500	Power Power				r-50% r-50%				0.419 0.310	Power Power				r-50% r-50%		P-valu P-valu		0.655 0.500
C15.1C/C15.1 50981C/50221 50981C/50981	2 1	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00	- - -	0	1.000	2 1 1	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0 0	1.000	2 1 -	0.00 0.00 0.00	0.00	4	0.00	0.00	-	0 0 0	1.000
Habitat Means	3	0.00	0.00		0.00	0.00		0			0.00	0,00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Power				r-50% r-50%	1 !	P-val P-val			z Power Power				r-50% r-50%		P-val			z Power Power				r-50% r-50%		P-valu P-valu		z
C15.1C/C15.1 50981C/50221 50981C/50981	3 2	0.00	0.00	ō	0.00	0.00	-	0	1.000	1 2 2	0.00 0.00 0.00	0.00 0.00		0.00	0.00	-	•	1.000	1 2 2	0.00 0.00 0.00	0.00	0	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			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Power Power				r-50% r-50%	1	P-val P-val			2 Power Power				r-50% r-50%		P-val P-val			z Power Power				r-50% r-50%		P-va_v		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 5.402. 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	Substr	ate											
Site Pair	Mvd	ı N	С	SE	N	0	SE	CV	D	P	N	С	SE	n	٥	SE	cv	D	P	n	c	SB	N	0	SE	CA D	P
C15.1C/C15.1 50981C/50223 50981C/50983	1 1	2	0.00 17.50 17.50	0.00 17.50 17.50	5	0.00 15.66 0.00	0.00 15.66 0.00	-	+	1.000 0.814 0.500	3 2 2	75.83 75.00 75.00	10.44 20.00 20.00	5	76.50 61.54 90.63	11.22 16.74 4.72	_	+	0.864 0.691 0.373								
Habitat Mean	пŝ		11.67	11.67		5.23	5.23		1			75.27	16.80		76.20	10.87		-									
Fisher's Stouffer's	s	Power Power				-50% -50%	I	-val	ie ie	0.428 0.300	Power Power	0.015 0.012		Powe:		0.989 0.988				Power Power		- 		-50% -50%		P-value P-value	
C15.1C/C15. 50981C/5022 50981C/5098	1 2	1	0.00 15.00 15.00	0.00	4	0.00 7.83 9.00	0.00 5.61 7.81	-	+	1.000	2 1 1	71.25 67.50 67.50	26.25		71.25 44.08 61.50	5.99 18.64 17.74	-	+	0.807								
Habitat Mea	ns		10.00	0.00		5.60	4.47		0			68.77	26.30		58.97	14.10)	0									
Fisher's Stouffer'	s	Power Power				c-50%	I			yz	Power Power				r-50% r-50%		P-va P-va		y	Power Power				c-50% c-50%		P-value P-value	
C15.1C/C15. 50981C/5022 50981C/5098	1 3	2	0.00 14.40 14.40	14.40 14.40	0	0.00	1.25 0.00	-	-	0.500	1 2 2	20.00 31.90 31.90	31.90 31.90		93.13 78.15	3.29 8.15	-	-	0.315								
Habitat Mea	ns		9.60	14.40		0.65	0.65		+			27.93	31.90		85.65	5.75	5	-									
Fisher's Stouffer'	ş	Power Power				r-50% r-50%		e-valu		2 	Power Power				r-50% r-50%		P-va P-va			Power Power				c-50% c-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-5.403. 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; Results of Statistical differences between means of control and offed site pairs, MVD = meter vertical drop; N = sample size; C = control mean; O = offed mean; CV : SE = standard error; D - direction of difference; r = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

	Algal Diversity Index (a)						Alga	1 Ta	xa Richne	es (b)							To	tal Algae										
	_								CV D	P	- N	С	SE	N	0	SE	c	V D	P	N	c	SE	N	0	SE	CV	7 D	P
ite Pair 1	Mvd N		c	SE	N	0	SE		CA D				-		1.00	0.58		- +	0.846	4	14.37	13.55	3	15.83	9.39		-	0.770
15.1C/C15.1 0981C/50221	1 2		0.09	0.09	5	0.07 0.17 0.08	0.0 0.1 0.0	1	- +	0.829 0.924 0.590	4 2 2	1.25 1.50 1.50	0.95 0.50 0.50	5	2.00	0.63			0.666	2 2	12.50 12.50	2.50 2.50		24.60 21,88	10.86 18.69	-	-	0.533
0981C/50981			0.15	0.15		0.10	0.0			0.00	_	1.42	0.65		1.33	0.60)				13.13	6.20		20.77	13.00)	-	
abitat Mean Fisher's	Po	wer	0.13	0.13	Powe	er-50%		P-	value	0.488	Power Power	0.058			er-50% er-50%			alue alue	0.558 0.439	Power Power	0.052			er-5 0% er-50%				0.425 0.294
Stouffer's	20	wer	0.082		Powe	er-50%					FOWCI	2.20	0.37		0.50	0.29	•	- +	0.011	5	95.00	1.58	4	12.82	7.43			0.000
15.1C/C15.1 0981C/50221 0981C/50981	. 2 0		0.18	0.07	3	0.00 0.00 0.09	0.0 0.0	0	-	0.063	0			3	1.00	0.00)	-		0			6	96.67 18.33	2.20 10.89 6.83			
			0.18	0.07		0.03	0.0	2	+			2.20	0.37		0.89	0.26	5	•			95,00	1.60		42.60				
abitat Mean Fisher's	Po	wer		0.07	Pow	er-50% er-50%		P	value value		z Power Power				er-50% er-50%			alue alue		2 Power				er-50% er-50%			alue alue	
Stouffer's 15.1C/C15.1 0981C/50221	132	wer	0.00	0.00	3	0.00	0.0	00	- 0	1.000	2	1.00 3.00 3.00	0.00	0	1.00	0.00	_	- o 	1.000	2 1 1	83.75 100.00 100.00	13.75	. 0	14.17 52.00	4.1 		- + 	0.018
0981C/50981			0.25			0.20	0.0				-	2.33	0.00		1.50	0.2	7	0			94.60	13.80)	33,10	10.8	5	-	
abitat Mean	ns		0.17	0.00)	0.10	0.0	34	0				0.00		er-50%			alue		yz Power		_	Pow	er-50%			alue	
Fisher's		wer.				er-50% er-50%			valué value		yz Power Power				er-50%			value		Power		_	Paw	er-50%		P⊸v	alue	

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

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

Perennials (P) Rock Total Invertebrates CV D P 0 gr. С SE SE CV D P C SE a N CV D Þ SE Site Pair Mvd N C 0.632 9.39 9.81 15.83 0.359 10.63 65.00 6.61 12.56 0.243 11.43 - - 0.493 0.00 19.1 14.46 1.25 22.26 0.00 16.50 0.382 C15.1C/C15.1 1 54.66 82.50 2.50 + + 0.536 - - 0.936 5.00 0.75 8.75 1.25 20.62 18.21 50981C/50221 1 5.00 76.25 18.39 0.895 82.50 2.50 Δ - . 0.558 1.88 5.00 50981C/50981 1 5.00 13.00 19.57 9.40 4.13 81.03 5.87 65.33 13.83 7.50 5.73 3.33 3.33 Habitat Means Power-50% 0.395 P-value 0.357 0.068 1.000 P-value 0.213 Power Power-50% 0.286 --- 2-value 0.488 y Power 0.428 P-value 0.236 0.106 Power-50% 0.107 Power-50% Fisher's Power Power-50% 1.000 P-value 0.133 Power-Power 0.320 --- P-value 0.491 Power-50% 0.040 Stouffer's Power 0.117 7 41 50.50 18.95 0.000 61.58 1.84 4 0.023 4.50 10.23 2.20 96.67 0.50 0.50 0.00 0.00 0.83 2.08 0.77 0 50981C/50221 2 Ð 16.36 ---6 73.75 0.42 - -50981C/50981 2 3.47 37.20 50.50 19.00 1.80 45.13 7.70 4.50 3.80 0.50 8.93 0.50 Habitat Means --- P-value Power-50% Power-50% --- P-value --- z Power --- z Power --- P-value --- P-value Power-50% Power-50% Power Fisher's Power Power-50% --- P-value ------Power Power-50% --- Pavalue Stouffer's Power - . 0.032 83.75 13.75 10.83 6.51 0.031 13.75 3 81.67 5.07 0.926 13.75 2.20 4.17 17.50 2.50 0.00 C15.1C/C15.1 3 0.00 n 13.48 17.50 28.26 0.00 18.77 50981C/50221 3 26.26 --0.00 0.50 0.50 50981C/50981 3 0.00 10.00 39.60 13.80 19.55 54.00 11.95 4.60 13.80 1.35 0.00 2.35 0.83 Habitat Means --- P-value Power-50% --- z Power Power-50% --- P-value --- 2 Power --- P-value --- P-value Power-50% Power-50% Fisher's Power --- P-value ---Power Power-50% ---Power-50% --- P-value Stouffer's Power

Table U 5,403. Page 1. December 15, 1994

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

Table C-5.403. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Estuarine. June 1991. Overstory removed July 1990. (Continued.)

				Ann	uals (A)								Ephen	erals (AB	3)												
Site Pair Mv	a N	C	SE	N	0	SE	CV	D	P	N	c	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	c	V D	P
C15.1C/C15.1 1 50981C/50221 1 50981C/50981 1	2	3.75 3.75 3.75	3.75 3.75 3.75	5	0.00 2.34 1.25	0.00 1.46 0.72	-	+	0.391 0.753 0.616	4 2 2	3.75 3.75 3.75	3.75 3.75 3.75	5	0.00 2.34 1.25	0.00 1.46 0.72	-	+	0.391 0.753 0.616									
Habitat Means		3.80	3.80		1.20	0.73		+			3.80	3.80	1	1.20	0.73		+										
Fisher's Stouffer's	Power Power				r-50% r-50%				0.271 0.167	Power Power	0.333 0.316			r-50% r-50%				0.271 0.167	Power			Power				value value	
C15.1C/C15.1 2 50981C/50221 2 50981C/50981 2	0	44.50	18.63	3	0.00 0.00 10.83	0.00 0.00 8.98	-	-	0.052	5 0 0	44.50	18.63	- 3	0.00 0.00 10.83	0.00 0.00 8.98	-	+	0.052									
Habitat Means		44.50	18.60		3.60	3.00		+			44.50	18.60	l	3.60	3.00	1	-										
Fisher's Stouffer's	Power				r-50% r-50%		P-val P-val		:	Power Power				r-50% r-50%		P-va P-va			Power Power			Power				value value	
C15.1C/C15.1 3 50981C/50221 3 50981C/50981 3	1	0.00 82.50 82.50	0.00	0	3.33 23.76	3.33	-		0.423	2 1 1	0.00 82.50 82.50	0.00	- 0	0.00 23.76	16.33	-	+	1.000									
Habitat Means		55.00	0.00		13.55	9.80		-			55.00	0.00)	11.90	8.19	i	0										
Fisher's	Power				r-50% r-50%		P-val P-val		y	z Power Power				r-50% r-50%		P-va P-va		y	Power Power			Power				value value	

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

Table C-5.404. Algal Percent Cover. Chlorophyta. 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; r = control > oiled; r = control = oiled; P = probability value; dashes = insufficient data.

	Mrvd N C SE N O SE CV D											Могр	holog	ical (Group: B	laded Gr	66118					Blac	ded G	reens (AE	(a)			
Site Pair	Mvd	1 N	С	92	· N	1 0	SE		CV D	P	N	с	SE	N	0	SE	CV I	D	P	N	¢	SE	N	0	SE	CV D		P
C15.1C/C15. 50981C/5022 50981C/5098	1 1	2	2.50 0.00 0.00	2.50 0.00 0.00) 5	0.00 2.34 1.25	0. 1. 0.	46	- + 	0.391 0.179 0.182	4 2 2	0.63 0.00 0.00	0.63 0.00 0.00	5	0.00 0.50 0.00	0.00 0.50 0.00		- (0.391 0.374 1.000	4 2 2	0.63 0.00 0.00	0.63 0.00 0.00	5	0.00 0.50 0.00	0.00 0.50 0.00		0	0.391 0.374 1.000
Habitat Mea	ns		0.83	0.83	3	1.20	0.	73	-			0.20	0.20		0.17	0.17		-			0.20	0.20		0.17	0.17	-		
Fisher's Stouffer'	8	Power Power	0.259 0.186			ower-50% ower-50%			value value	0.122 0.147	Power Power				er-50% er-50%		P-value		0.522 y 0.493	Power Power				r-50% r-50%		-value -value		
C15.1C/C15. 50981C/5022 50981C/5098	1 2	0	5.00	2,37	- 3	0.00 0.00 7.08	0.6 0.6 5.3	00	- + -	0.079	5 0 0	0.00	0.00	3	0.00 0.00 0.00	0.00 0.00 0.00		э :	1.000	5 0 0	0.00	0.00	3	0.00 0.00 0.00	0.00 0.00 0.00	- o - -	1	
Habitat Mea	ns		5.00	2.40)	2.37	1.	77	+			0.00	0.00		0.00	0.00		2			0.00	0.00		0.00	0.00	0		
Fisher's Stouffer's		Power Power				wer-50% wer-50%			value value		z Power Power				r-50% r-50%		P-value P-value		z	Power Power				c-50% c-50%		-value -value		z
C15,1C/C15. 50981C/5022 50981C/5098	1 3	1	0.00 80.00 80.00	0.00	- 0	0.00	1.5		- o - +	1.000		0.00 80.00 80.00	0.00	0	0.00 1.50	0.00 1,50	- (1.000		0.00 80.00 80.00	0.00	0	0.00 1.50	0.00 1.50	- 0	:	.000
Habitat Mea	ns		53.33	0.00)	1.40	0.	75	0			53.33	0.00		0.75	0.75)			53.33	0.00		0.75	0.75	0		
Fisher's Scouffer's		Power Power				ower-50% ower-50%			value value	\	z Power Power				r-50% r-50%		P-value P-value		yz	Power Power				r-50% r-50%		-value -value		Yz

[a] Kormmannia, Nonostroma, U.va and Ulvaria. x At least one site pair p-value < 0.190 in opposite direction of overs)] tests. polyrection of difference between habital means is different than direction of overall tests. 2 Chly one site pair.

Table C-5,404, Page 1. December 15, 1994

		1	Morpholog	gical (Group:	Fine F	ilamen	tous	Green	2 g			c:	ladopi	nora sp.	(AR)						_ τ	loth	ix sp. (2	LE)		
Site Pair	Mvd	N	С	SE	N	0	SE	¢.	מ ז	P	N	c	BE	N	0	ŞE	CV	D	P	N	C	SÈ	N	0	SE	CV D	P
C15.1C/C15.1 50981C/50221 50981C/50981	1	2	0.00 0.00 0.00	0,00 0.00 0,00	5	0.00 0.00 0.00	0.0 0.0	0 -		1.000 1.000 1.000	4 2 2	0.00 0.00 0.00	0.00	5	0.00 0.00 0.00	0.00 0.00 0.00		0	1.000 1.000 1.000	4 2 2	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	- 0	1.000 1.000 1.000
Habitat Mean	ns		0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00	0	
Fisher's Stouffer's		Power Power			Power Power					0.655 0.500	Power Power				r-50% r-50%				0.655 0.500	Power Power				r-50% r-50%		-value -value	0.655 0.500
C15.1C/C15.1 50981C/50221 50981C/50981	12	0	0.00	0.00	• 3	0.00 0.00 5.42	0.0 0.0 5.4	0 -		1.000	5 0 0	0.00	0.00	3	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000	5 0 0	0.00	0.00		0.00 0.00 0.00	0.00 0.00 0.00	- o -	1.000
Habitat Mean	ດຮ		0.00	0.00	į	1.80	1.8	0	o			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	0	
Fisher's Stouffer's		Power Power			Power Power			P-va P-va		yz	Power Power				r-50% r-50%		e-val			Power Power				r-50% r-50%		-value	z
C15.1C/C15.1 50981C/50221 50981C/50981	L 3	1	0.00 0.00 0.00	0.00	0	0.00	0.0			1.000	2 1 1	0.00 0.00 0.00	0.00	0	0.00	0.00	-	0	1.000	2 1 1	0.00 0.00 0.00	0.00	0	0.00	0.00	- o -	1.000
Habitat Mean	ıs		0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	0	
Fisher's Stouffer's		Power Power	-		Power Power			P-va P-va		z	Power Power				r-50% r-50%		P-val			Power Power				r-50% r-50%		-value -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-5.404. Algal Percent Cover. Chlorophyta. Cook Inlet/Kenai. Estuarine. June 1991. Overstory removed July 1990. (Continued.)

		Urospora sp. (AE)										Mo	rphologic	al Gr	oup:	Tubular	and Sac	cat	e Gre	BILB		В	lidingi	ia/Ent	eromorph	(AE) (a)		
Site Pair	Mvd	N	c	SE	1	N .	0	SE	c	V D	P	N	С	SE	Ŋ	0	SE	c	D D	P	N	c	88	N	0	SE	CV	D	P
C15.1C/C15.1 50981C/50221 50981C/50981	1	4 2 2	0.00 0.00 0.00	0.0	0	5	0.00 0.00 0.00	0.0	0	- o - o	1.000	4 2 2	1.88 0.00 0.00	1.88 0.00 0.00	5	0.00 1.84 1.25	0.00 1.31 0.72	L		0.391 0.195 0.182	4 2 2	1.88 0.00 0.00	1,88 0.00 0.00	5	0.00 1.84 1.25	0.00 1.31 0.72	-	-	0.391 0.195 0.182
Habitat Mean	18		0.00	0.0	0		0.00	0.0	0	0			0.63	0.63		1.03	0.67	7	-			0.63	0.63		1.03	0.67		-	
Fisher's Stouffer's		Power Power				ower-5					0.655 0.500	Power Power	0.143 0.115			er-50% er-50%				0.129 0.153	Power Power	0.152			r-50% r-50%				0.129 0.153
215.1C/C15.1 50981C/50221 50981C/50981	1 2		0.00		-		0.00 0.00 0.00	0.0	0	- o - -	1.000	5 0 0	5.00	2.37	3	0.00 0.00 1.67	0.00)	- + - -	0.079	5 0 0	5.00	2.37	3	0.00 0.00 1.67	0.00 0.00 1.67		+	0.079
Rabitat Mear	າຣ		0.00	0.0	0		0.00	0.0	0	o			5.00	2.40		0.57	0.57	7	-			5.00	2.40		0.57	0.57		+	
Fisher's Stouffer's		Power Power				ower-				alue alue		z Power Power				er-50% er-50%			value value		z Power Power				x-50%		P-val P-val		
215,1C/C15.1 50981C/50221 50981C/50981	13	2 1 1	0.00 0.00 0.00		-	3 0 5	0.00	0.0	-	- o - o	1.000	2 1 1	0.00 0.00 0.00	0.00	0	0.00 1.26	0.00	_	- o 	1.000	2 1 1	0.00 0.00 0.00	0.00	0	1.26	0.00	-	0	1.000
Mabitat Mear			0.00	0.0	00		0.00	0.0	0	0			0.00	0.00		0.65	0.50	С	0			0.00	0.00		0.65	0.50		О	
Fisher's Stouffer's		Power Power				ower-				alue alue		z Power Power				er-50%			value value	5	2 Power Power				r-50% r-50%		P-val P-val		yz

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

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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	Phaeoph	yt a					Morp	hologi	cal (Group:	Bladed B	rowns					Tota	1 Fuct	ıs gardı	eri (P)			
Site Pair M	vd 1	1	С	ge	N	0	SE	CV	D	P	и	С	SE	N	0	8B	ÇV	D	P	N	С	SE	N	٥	SE	0	Q V	P
C15.1C/C15.1 : 50981C/50221 : 50981C/50981	1 2	2 :	11.87 12.50 12.50	11.06 2.50 2.50	5	11.67 20.76 20.62	10.44 11.84 18.21	-	-	0.907 0.766 0.943	4 2 2	10.63 8.75 8.75	9.81 1.25 1.25	5	11.67 20.76 20.62	10.44 11.84 18.21	-	-	0.864 0.588 0.936	4 2 2	10.63 8.75 8.75	9.81 1.25 1.25	5	11.67 20.76 20.62	10.44 11.81 18.21	1		0.864 0.588 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	7	-	
Fisher's Stouffer's		ower	0.019 0.026		Power Power		0.382 0.429			0.592 0.442	Power Power	0.024			er-50% er-50%		P-valı P-valı		0.464	Power Power	0.023			r-50% r-50%	0.377 0.406			0.464
C15.1C/C15.1 50981C/50221 50981C/50981	2 (מ	90.00	3.26	3	12.82 96.67 11.25	7.41 2.20 7.60		+	0.000	5 0 0	50.50	18.95 	3	12.82 96.67 2.08	7,41 2,20 0,77	-	+	0.117	5 0 0	50.50	18.95 	. 3	12.82 96.67 2.08	7.41 2.20 0.77	7	- + - -	0.117
Habitat Means		9	90.00	3.30		40.27	5.73		+			50.50	19.00		37.20	3.47		+			50.50	19.00	}	37.20	3.47	7	+	
Fisher's Stouffer's		ower			Power Power			P-val		2	Power Power				er-50% er-50%		P-val		:	Power Power				r-50% r-50%				7
C15.1C/C15.1 50981C/50221 50981C/50981	3	1	83.75 2.50 2.50	13.75	0	10.83	6.51 16.50	-		0.032	2 1	83.75 0.00 0.00	13.75	0	10.83 28.26	6.51 13.48	-	-	0.032	1	83.75 0.00 0.00	13.75	- 0	10.83 28.26	6.51 13.48	3	- +	0.032
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		ower			Power			P-val P-val		ya	Power Power				er-50% er-50%		P-val			Power Power				±-50% ±-50%				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 difference than direction of overall tests.
z Only one site pair.

Table C-5.405. Page 1. Semember 15, 1994 Juvenile Fugus gardneri (P) (<= 2cm) Fucus Stipes (P) (a)

		Ad	lult Fu	cus g	ardneri	(P) (>	2¢m)				Juven	ile F	rcna ö	gardneri	(P) (<=	2¢m)					FU	CUB S	cipes (P)	(A)			
Site Pair M	vd N	С	SE	N	0	ŞĒ	C/	7 D	P	N	С	SE	N	0	SE	CV I)	P	ĸ	¢	SE	n	0	SE	CV	D	P
C15.1C/C15.1 1 50981C/50221 1 50981C/50981 1	1 2	10.63 8.75 8.75	9.81 1.25 1.25	5	11.67 20.60 20.62	10.4 11.8 18.2	19 - 11 -	-	0.864 0.599 0.936	4 2 2	0.00 0.00 0.00	0.00	5	0.00 0.16 0.00	0.00 0.16 0.00		1	000).374 000	2 2	0.00 0.00 0.00	0.00 0.00 0.00	5 4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000
Habitat Means Fisher's Stouffer's	Powe:			Powe	17.63 r-50% r-50%	13.5 0.382 0.428	P-V		0.469 0.327	Power Power	0.00	0.00	Power			P-value P-value	e C		Power Power			Powe	r-50% r-50%		P-va	lue	0.655 0.500
C15.1C/C15.1 2 50981C/50221 2 50981C/50981	2 0	50.50	18.95	. 3	12.82 96.67 2.08	2,2	0 -		0.117	5 0 0	0.00	0.00	3	0.00 0.00 0.00	0.00 0.00 0.00	- c	1	.000	5 0 0	0.00	0.00	_	0.00 0.00 0.00	0.00 0.00 0.00	-		1.000
Habitat Means		50.50	19.00)	37.20	3.4	7	٠			0.00	0.00		0.00	0.00	0)			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Powe Powe				r-50% r-50%		P-va			<pre>Power Power</pre>				r-50% r-50%		P-value P-value			Power Power				r-50% r-50%		P-va	lue	z
C15.1C/C15.1 50981C/50221 50981C/50981	3 1	83.75 0.00 0.00	13.75	- 0	10.83 28.26			 	0.032	2 1 1	0.00 0.00 0.00	0.00	-	0.00	0.00	-		.000	2 1 1	0.00 0.00 0.00	0.00	-	0.00	0.00	-		1.000
Habitat Means		27.93	13.80		19.55	10.0	00	+			0.00	0.00		0.00	0.00	0)			0.00	0.00		0.25	0.25		0	
Fisher's Stouffer's	Powe Powe				r-50% r-50%					<pre>2 Power Power</pre>				r-50% r-50%		P-value P-value			2 Power Power				er-50% er-50%				yz

(a) Dead Pucus plants or stipes without blades. x At least one site pair p value < 0.100 in opposite direction of overall tests. Direction of difference between habitst reams is different than direction of overall tests. z Duly one site pair.

Table C-5.405, Algal Percent Cover, Phaeophyta, Cook Inlet/Renai, Estuarine, June 1991, Overstory removed July 1990, (Continued.)

		I	etalo	nia/P	unctaria	(AE) (b)			M	orphologi	cal G	roup:	Coarse I	Filament	ous B	row	71.8		M	yelophy	cus/8	Scytosiph	on (A) (a	a)		
Site Pair Mvd	N	С	SE	N	0	SE	СЛ	ם	P	N	С	ge	N	0	SE	CV	D	P	N	С	SE	N	0	SE	ĊV	ם	P
C15.1C/C15.1 1 50981C/50221 1 50981C/50981 1	2	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.0 0.0 0.0	0 -	0	1.000 1.000 1.000	4 2 2	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	- - -	a	1.000 1.000 1.000	4 2 2	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	O	1.000 1.000 1.000
Habitat Means		0.00	0.00		0.00	0.0	0	0			0.00	0.00	1	0.00	0.00		0			0.00	0.00		0.00	0.00		O	
	Power Power	 			r-50% r-50%		P-va P-va		0.655 0.500	Power Power				er-50% er-50%		P-val: P-val:		0.655 0.500	Power Power				r-50% r-50%		-va:		0.655 0.500
C15.1C/C15.1 2 50981C/50221 2 50981C/50981 2	5 0 0	0.00	0.00	3	0.00 0.00 0.00	0.0 0.0	0 -	o	1.000	5 0 0	0.00	0.00	- 3	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000	5 0 0	0.00	0.00	3	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000
Habitat Means		0.00	0.00		0.00	0.0	0	0			0.00	0.00)	0.00	0.00		o			0.00	0.00		0.00	0.00		0	
	Power Power				r-50% r-50%		P-va P-va			z Power Power				er-50% er-50%		P-valı P-valı		;	Power Power				r-50% r-50%		-va -va		z
C15.1C/C15.1 3 50981C/50221 3 50981C/50981 3	2	0.00 0.00 0.00	0.00	0	0.00	0.0		0	1.000	2 1 1	0.00 0.00 0.00	0.00	. 0	0.00 0.00	0.00 0.00	-	0	1,000	2 1 1	0.00 0.00 0.00	0.00	0	0.00	0.00 0.00	-	Ü	1.000
Habitat Means		0.00	0.00		0.00	0.0	0	0			0.00	0.00)	0.00	0.00		0			0.00	0.00		0.00	0.00		0	
	Power Power				r-50% r-50%		P-va P-va			z Power Power				er-50% er-50%		P-valı P-valı		,	Power Power				r-50% r-50%		-va -va		z

⁽b) Genera not separated.

Fine Filamentous Browns (AE) (b) Morphological Group: Fine Filamentous Browns SE ٥ SE CV D SE CA D P N C CA D P N С N P Site Pair Mvd N c SE N a 0.00 - 0.391 0.00 0.391 0.00 C15.1C/C15.1 1.25 1.25 3 0.00 0.00 - + 0.500 - - 0.500 3.75 0.00 0.00 0.500 3.75 3.75 5 0.00 3.75 50981C/50221 1 50981C/50981 1 3.75 3.75 4 0.00 0.00 0.500 3.75 3.75 4 0.00 0.00 2.97 2.97 0.00 0.00 0.00 0.00 2.97 2.97 Habitat Means --- P-value 0.185 Power-50% --- P-value 0.185 Power Power-50% --- P-value Power Fisher's Power Power-50% --- P-value 0.101 Power-50% --- P-value Power-50% Power Stouffer's Power Power-50% --- P-value 0.101 Power 0.00 0.084 0.00 0.084 39.50 18.24 4 0.00 0.00 C15.1C/C15.1 2 39.50 18.24 4 0.00 0.00 50981C/50221 2 0.00 0.00 Û 9,17 7.35 Ō 50981C/50981 2 0 --6 9.17 7.35 2.47 39.50 18.20 3.07 2.47 39.50 18.20 3.07 Rabitat Means Power-50% --- P-value --- z Power Power-50% --- P-value Power Power-50% --- P-value Fisher's Power Power Power-50% --- P-value Power Power-50% --- P-value Stouffer's Power Power-50% --- P-value 0.00 0.00 0.00 0.00 - o 1.000 0.00 - 0 1.000 C15.1C/C15.1 3 2 0.00 0.00 3 0.00 2.50 50981C/50221 3 2.50 Û 21,00 15.03 - -2.50 21.00 15.03 - -50981C/50981 3 2.50 -5 0.00 10.50 7.50 1.67 0.00 10.50 7.50 O 1.67 Habitat Means --- P-value --- yz Power Power-50% --- P-value --- y Power ---Power-50% --- P-value Power-50% Fisher's Power Power-50% --- P-value P-value Power _---Power-50% --- P-value ---Power ___ Stouffer's Power-50% Power

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⁽a) Genete ro. separated: x At least one size pair p value < 0.100 in opposite direction of overall cests. y Direction of difference between habitat means is different than direction of overall cests. 7 Only one size pair.

⁽b) Elachista, Ectocarpus and Pilayella.

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

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; 0 = control = oiled; P = probability value; dashes = insufficient data.

					Total	Rhodophy	ta					Mox	pholog	ical	Group:	Bladed R	eds					P	almar	ia spp.	(A)		
Site Pair	Mvd	N	С	SE	N	o	SE	C	V D	P	ы	С	ØE	N	О	SE	CV	D	P	N	С	SE	N	0	SE	CV D	P
C15.1C/C15.1 50981C/5022 50981C/5098	1 1	2	0.00 0.00 0.00	0.00 0.00 0.00	5	4.17 1.50 0.00	4.1 1.5 0.0	0	 - 0	0.423 0.374 1.000	4 2 2	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	4 2 2	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	- 0	1.000 1.000 1.000
Habitat Mean	ns		0.00	0.00		1.90	1.9	0	-			0.00	0.00		0.00	0.00		٥			0.00	0.00		0.00	0.00	0	
Fisher's Stouffer's		Power Power				r-50% r-50%				0.249 0.165	Power Power	- 		Power Power					0.655 0.500	Power Power				-50% -50%			0.655 0.500
C15.1C/C15.1 50981C/50221 50981C/50981	1 2	0	0.00	0.00	3	0.00 0.00 0.00	0.0 0.0	0	- 0	1.000	5 0 0	0.00	0.00	4 3 6	0.00 0.00 0.00	0.00 0.00 0.00	-	O	1.000	5 0 0	0.00	0.00	3	0.00 0.00 0.00	0.00 0.00 0.00	-	1.000
Habitat Mean	ns		0.00	0.00		0.00	0.0	0	o			0.00	0.00		0.00	0.00		О			0.00	0.00		0.00	0.00	0	
Fisher's Stouffer's		Power Power	*			r-50% r-50%					z Power Power			Power			P-valu P-valu		;	Power Power				c-50% c-50%		P-value P-value	
C15.1C/C15.3 50981C/50223 50981C/50983	1 3	1	0.00 17.50 17.50	0.00	0	3,33 0.00	3.3	_	• - • .	0.423	2 1 1	0.00 0.00 0.00	0.00	0	3.33	3.33 0.00	-	-	0.423	2	0.00 0.00 0.00	0.00 	0	0.00	0.00	-	1.000
Habitat Mean	ns		11.67	0.00		1.65	1.6	5	-			0.00	0.00		1.65	1.65		-			0.00	0.00		0.00	0.00	c	
Fisher's Stouffer's		Power Power				r-50% r-50%				,	2 Power Power			Power Power			-valu		:	Power Power				r-50% r-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 habits means is different than direction of overall tests. Z OHI) one site pair.

Table C-5-406, Page 1. December 15, 1994

		_		Porph	yra sp. (A)				:	Morpholog	ical 6	roup	: Coarse	Filamen	tous	Red	la			Crypt	osiph	onia wood	iii (A)			
Site Pair My	rd N	С	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	ĊΛ	ם	P	N	c	SE	Ŋ	0	SE	CA D		P
C15.1C/C15.1 1 50981C/50221 1 50981C/50981 1	. 2	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	~	0	1.000 1.000 1.000	4 2 2	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	o	1.000 1.000 1.000	4 2 2	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00		1	.000 .000 .000
Habitat Means		0.00	0.00	,	0.00	0.00	ł	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	o		
Fisher's Stouffer's	Power Power				r-50% r-50%				0.635 0.500	Power Power				r-50% r-50%				0.655 0.500	Power Power				r-50% r-50%		-value -value		
C15.1C/C15.1 2 50981C/50221 2 50981C/50981 2	0	0.00	0.00	- 3	0.00 0.00 0.00	0.00	~	o	1.000	5 0 0	0.00	0.00	3	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000	5 0 0	0.00	0.00	3	0.00 0.00 0.00	0.00 0.00 0.00	- o - -	1	.000
Habitat Means		0.00	0.00	ı	0.00	0.00	ı	0			0.00	0.00		0.00	0.00		Q			0.00	0.00		0.00	0.00	0		
Fisher's Stouffer's	Power Power				r-50% r-50%		P-va P-va			z Power Power				r-50% r-50%		e-val		7	Power Power				r-50% r-50%		-value -value		2
C15.1C/C15.1 3 50981C/50221 3 50981C/50981 3	1	0.00 0.00 0.00	0.00	0	3.33	3.33	~	-	0.423	2 1 1	0.00 17.50 17.50	0.00	0	0.00	0.00	-	_	1.000	2 1	0.00 0.00 0.00	0.00	0	0.00	0,00	- 0 -		.000
Habitat Means		0.00	0.00	ı	1.65	1.65		-			11.67	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	0		
Fisher's Stouffer's	Power Power				r-50% r-50%		P-va P-va			z Power Power				r=50% r-50%		P-val P-val		yz	Power Power				r-50% r-50%		-value -value		z

 \mathbf{x} At least one sice pair p-value < 0.100 in opposite direction of overall tests. y Direction of difference between habitat means is different than direction of overall tests. 2 only one elue bair.

Table C-5.406. Algal Percent Cover. Rhodophyta, Cook Inlet/Kenai. Estuarine. June 1991. Overstory removed July 1990. (Continued.)

			Gloi	opelti	s furcat	a (A)					Ne	orhod	omela	/Rhodomel	a (P) (1)					Odon	thalia	flocco	9a (P)			
Site Pair Myd	1 N	c	SE	N	0	SE	cv	, D	P	N	С	Se	N	0	92	CV I	,	P	N	С	Se	N	0	\$E	ĊV I	P	,
C15.1C/C15.1 1 50981C/50221 1 50981C/50981 1	2	0.00 0.00 0.00	0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	•	1.000 1.000 1.000	4 2 2	0.00 0.00 0.00	0.00	5	0.00	0.00 0.00 0.00	- c)	1.000 1.000 1.000	4 2 2	0.00 0.00 0.00	0.00 0.00 0.00	5 4	0.00 0.00 0.00	0.00	- c	1.0	000
Habitat Means Fisher's Stouffer's	Power Power	0.00	0.00	Power			P-va		0.655 0.500	Power Power	0.00	0.00	Powe	0.00 er-50% er-50%		P-value P-value	е	0.655 0.500	Power Power	0.00	0.00	Power			-value	0.6	
015.1C/C15.1 2 50981C/50221 2 50981C/50981 2	5	0.00	0.00	4	0.00	0.00) -	-	1.000	5 0 0	0.00	0.00	3	0.00 0.00 0.00	0.00 0.00 0.00	- (-	0	1.000	5 0 0	0.00	0.00	3	0.00 0.00 0.00	0.00	- - -	-	000
iabitat Means Fisher's	Power	0.00	0.00	Power			P-ve			z Power Power	0.00	0.00	Powe	0.00 er-50% er-50%		P-value P-value	В	z	Power Power	0.00	0.00	Power			-value		
Stouffer's C15.1C/C15.1 3 50981C/50221 3 50981C/50981 3	1	0.00 0.00 0.00	0.00	0	0.00	0.00			1.000	2	0.00 17.50 17.50	0.00	3	0.00	0.00	- (1.000	2	0.00 0.00 0.00	0.00	0 5	0.00	0.00	-	-	000
Habitat Means Fisher's Stouffer's	Power	0.00	0.00	Power			P-va	o alue alue		z Power		0.00	Powe	0.00 er-50% er-50%		P-value P-value		yz	Power Power	0.00		Power Power			-valu	<u> </u>	

(a) Genera not separated.

x At least one wite pair p-value < 0.100 in opposite direction of overall tests.</p>
y Direction of difference between habitat peans is different than direction of overall tests.
2 Only one site pair.

Table C 5.406. Fage 3. December 15, 1994

Z Only one sine parts		Morn	hologi	ical Group	: Sacca	ite l	Reds					Ha	losac	cion spp.	(A)					Morpholo	ogical	Group:	Fine 1	Filament	ous Rec	ie
Site Pair Myd	d N		SE	N C		3	ÇV	Ď	P	N	С	SE	N	0	SE	cv	D	P	N	С	SE	N	0	SE	ÇV I	P
015.1C/C15.1 1 50981C/50221 1 50981C/50981 1	2	0.00 0.00 0.00	0.00 0.00 0.00	5 0.	00	0.00	-	0	1.000 1.000 1.000	4 2 2	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	o	1.000 1.000 1.000	4 2 2	0.00 0.00 0.00	0.00	5 4	0.00 0.00 0.00	0.00	- 0	1,000
Habitat Means Fisher's Stouffer's	Power Power	0.00	0.00	Power-509		0.00 	P-val	o ue ue	0.655 0.500	Power Power	0.00	0.00	Powe	0.00 r-50% r-50%		P-val		0.655	Power Power	0.00		Power Power				0.655
C15.1C/C15.1 2 50981C/50221 2 50981C/50981 2	5	0.00	0.00	3 0.	.00	0.00	-	0	1.000	5 0 0	0.00	0.00	3	0.00 0.00 0.00	0.00	, ,	0	1.000	5 0 0	0.00		3 6	0.00 0.00 0.00	0.00	-	
Habitat Means Fisher's	Power	0.00	0.00	Power-509	s		P-val			z Power	0.00	0.00	Powe	0.00 r-50%		P-va: P-va:			Power	0.00		Power Power			P-value P-value	
Stouffer's C15.1C/C15.1 3 50981C/50221 3 50981C/50981 3	1	0.00 0.00 0.00	0.00	0	.00	0.00	-	o o	1.000	Power 2 1 1	0.00 0.00 0.00	0.00	3	0.00 0.00	0.00) <u>-</u>	0	1.000	2 1 1	0.00 0.00 0.00	0.00	3	0.00	0.00	- 0	1.000
Habitat Means Fisher's	Power	0.00	0.00	Power-50: Power-50:	b -		P-val P-val			z Power Power	0.00	0.00	Pow€	0.00 r-50% r-50%		P-va P-va			z Power Power	0.00		Power			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-5.406. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Estuarine. June 1991. Overstory removed July 1990. (Continued.)

		Poly	aiphor	nia/Pt	erosipho	nia (A)	(a)				Morph	ologi	cal (Group: Cr	ustose	Reds					Hi	ldenbr	andia sp	. (P)			
Site Pair Mv	rd N	c	SE	N	0	SE	cv	D	P	N	С	SE	Ŋ	0	SE	ÇV	D	P	N	С	9B	N	0	SE	CA 1	D	P
C15.1C/C15.1 1 50981C/50221 1 50981C/50981 1	. 2	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	4 2 2	0.00 0.00 0.00	0.00	5	4.17 1.50 0.00	4.17 1.50 0.00	-		0.423 0.374 1.000	4 2 2	0.00 0.00 0.00	0.00 0.00 0.00	5 4	4.17 1.50 0.00	4.17 1.50 0.00	-	0 1	0.423 0.374 1.000
Habitat Means		0.00	0.00		0.00	0.00		0			0.00	0.00		1.90	1.90		-			0.00	0.00		1.90	1.90		-	
Fisher's Stouffer's	Power Power			Power Power					0.655 0.500	Power Power				er-50% er-50%		P-valı P-valı		0.249 0.165	Power Power			Power Power			-valu		0.249 0.165
C15.1C/C15.1 2 50981C/50221 2 50981C/50981 2	2 0	0.00	0.00	3	0.00	0,00 0.00 0.00	-	0	1.000	5 0 0	0.00	0.00	3	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000	5 0 0	0.00	0.00	3	0.00 0.00 0.00	0.00 0.00 0.00	-	ο :	1.000
Habitat Means		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Power Power			Power	-50% -50%		P-val P-val		;	Power Power				er-50% er-50%		P-valu P-valu		;	Power Power			Power Power			P-valu P-valu		z
C15.1C/C15.1 3 50981C/50221 3 50981C/50981 3	3 1	0.00 0.00 0.00	0.00	0	0.00	0.00	-	J	1.000	2	0.00 0.00 0.00	0.00	0	0.00	0.00	-	0	1.000	2	0.00 0.00 0.00	0.00	0	0.00	0.00	-	0	1.000
Habitat Means		0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		0			0.00	0.00)	0.00	0.00		0	
Fisher's	Power			Power	r-50% r-50%		P-val P-val			Power Power				er-50% er-50%		P-val: P-val:			Power Power			Power Power	r-50% r-50%		-valu -valu		z

(a) Cenera not separateu.

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

Table C-5.407. Algal Percent Cover. Invertebrates. 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.

				Bala	anomorpha							L	ottiidae								M	ytilus				
Site Pair Mv		c	8E	N	0	SE	CV :	D P	n n	С	SE	N	٥	SE	CV D	•	Р	N	С	SE	N	0	SE	CV	D	P
C15.1C/C15.1 1 50981C/50221 1 50981C/50981 1	2	0.00 5.00 5.00	0.00 5.00 5.00	5	15.83 1.42 1.88	11.21 0.75 1.88	- - -	+ 0.5	36 2	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	- 0	1	.000	4 2 2	0.00 0.00 0.00	0.00 0.00 0.00	5 4	1.67 0.00 0.00	1.67 0.00 0.00	-	0	0.423 1.000 1.000
Habitat Means Fisher's Stouffer's	Power	3.33 0.123 0.043		Powe	6.37 r-50% r-50%		P-valu P-valu		90 y Power 00 Power	0.00	0.00	Powe	0.00 er-50% er-50%		o P-value P-value	2 0	.655 .500	Power Power	0.00		Powe	0.57 r-50% r-50%				0.437 0.322
C15.1C/C15.1 2 50981C/50221 2 50981C/50981 2	5	0.00	0.00	4 3	17.50 0.83 0.42	6.29 0.83 0.42		- 0.0		0.50	0.50	3	0.63 0.00 0.00	0.63 0.00 0.00	-	- 0	.879 	5 0 0	0.00	0.00	3 6	4.38 0.00 0.00	2.13 0.00 0.00	-		0.080
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 Stouffer's	Power Power				r-50% r-50%		P-valu P-valu		z Power Power				er-50% er-50%		P-value P-value		AS	Power Power				x-20# x-20#		P-va P-va		2
C15.1C/C15.1 3 50981C/50221 3 50981C/50981 3	1	2.50 0.00 0.00	0.00	- 0	4.17 0.00	2.20 0.00	-	-	26 2 1	0.00	0.00	0	0.00	0.00	-		.000	2 1 1	0.00 0.00 0.00	0.00	0	0.00	0.00	-		1.000
Habitat Means		0.83	0.00)	2.10	1.10		-		0.00	0.00		0.00	0.00)			0.00	0.00		0.25	0.25		0	
Fisher's Stouffer's	Power Power				r-50% r-50%		P-valu P-valu		z Power Power				er-50% er-50%		P-value P-value		z	Power Power				r-50% r-50%		P-va P-va		yz

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

Table 0-5.407. Page 1. December 15, 1994

				Litt	torinidae													_								
Site Pair My	vđ N	С	SE	N	0	SE	СV	D	P	N	С	SE	N	0	SE	CA D	P	n	С	88	N	0	Se	ÇV	D	P
C15.1C/C15.1 1 50981C/50221 1 50981C/50981 1	1 2	0.00	0.00 0.00 0.00	5	1.67 0.00 0.00	1.67 0.00 0.00	-	0	0.423 1.000 1.000																	
Habitat Means		0.00	0.00)	0.57	0.57		-																		
Fisher's Stouffer's	Power Power				r-50% r-50%				0.437	Power Power			Power Power					Power Power				c-50% c-50%		P-valı P-valı		
C15.1C/C15.1 2 50981C/50221 2 50981C/50981 2	2 0	0.00	0.00	- 3	3.13 0.00 0.00	2.37 0.00 0.00	-	-	0.216																	
Habitat Means		0.00	0.00)	1.03	0.80	1	-																_		
Fisher's Stouffer's	Power Power				r-50% r-50%		P-val P-val			z Power Power			Power Power			P-value P-value		Power				r-50% r-50%		P-val		
C15.1C/C15.1 3 50981C/50221 3 50981C/50981 3	3 1	0.00 0.00 0.00	0.00	- 0	0.00	0.00			1.000																	
Habitat Means		0.00	0.00		0.00	0.00		0																		
Fisher's	Power				r-50% r-50%		P-val P-val			z Power Power			Power			P-valué P-valué		Power Power				r-50% r-50%		P-val		

x At least one site pair p-value < 0.100 in opposite direction of 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. Algal Percent Cover. Substrates. Cook Inlet/Kenai. Estuarine. June 1991. Overstory removed July 1990. Table C-3.400. Aight results Cover. Substitutes. Cover interpretate. Decuging. Output 1991. Overstony removed duty 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; Results of Statistical differences between means of control and oiled site pairs. MVD - meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV coefficient of variation; REBUILDS OF STATUBLICAL differences between means of control and offed site pairs, RVD - meter vertical drop; N = sample size; C = control mean; O = offed mean; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

					,	Rock									Mud									Sand				
			c	SE	N .	0	SE	cv	D	P	N	c	8£	N	0	SE	cv	D	P	N	С	SE	N	0	9E	CV	D	P
C15.1C/C15.1 50981C/50223 50981C/50983	11		78.13 82.50 82.50	12.56 2.50 2.50	3 5	65.00 54.66 76.25	6.61 16.50 18.39	-	+	0.359 0.382 0.895	4 2 2	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	4 2 2	0.00 0.00 0.00	0.00 0.00 0.00	5 4	0.00 19.34 0.00	0.00 18.31 0.00 6.10	-	- (1.000 0.299 1.000
Habitat Mean Fisher's Stouffer's	ns	Power Power	81.03 0.294 0.333		Power Power			P-val		0.213 0.133	Power Power	0.00	0.00		0.00 r-50% r-50%		P-valu		0.655 0.500	Power Power	0.000		Powe Powe	6.43 r-50% r-50%	I	-valu -valu	e (0.274
C15.1C/C15.3 50981C/50223 50981C/5098	1 2 1 2	5 0	4.50	1.84	3	61.58 0.00 73.75	6.69 0.00 16.36	-	-	0.000	5 0 0	0.00	0.00	3 6	0.00	0.00	_	0	1.000	5 0 0	0.00	0.00	3 6	0.00 2.50 7.50	0.00 2.50 7.50 3.33	-	0	1.000
Habitat Mean	ns	Power Power			Power Power			P-val P-val			z Power Power	0.00	0.00	Powe	0.00 r-50% r-50%		P-val: P-val:		z	Power Power			Powe	r-50% r-50%		-valı	ic ie	уг
Stouffer' C15.1C/C15. 50981C/5022 50981C/5098	1 3	2	13.75 0.00 0.00	13.75	3	81.67 26.26	5.07 18.77	-		0.031	2 1 1	0.00 0.00 0.00	0.00	0	0.00 20.76	0.00 12.37	-	-	1.000	2 1 1	0.00	0.00	0 5	0.00	0.00	-	0	1.000
Habitat Mea Fisher's Stouffer'	ns	Power Power	4.60		Power		11.95	P-val			z Power Power	0.00	0.00	Powe	10.40 er-50% er-50%		P-val: P-val:		yz	Power Power	0.00		Powe	0.00 ==-50% ==-50%	0.00 	P-val:		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 test only one site pair.

Zostera/Phyllospadix Filamentous Diatoms Shell Fragments N C ٥ CV D P SE CV D P SE 0 C C' D N 0 SE Site Pair Mvd N С SE N 1.000 0.391 0.00 0 00 0.00 0.00 0 0.00 0.63 0.00 0.00 1.000 0.63 0.00 0.00 0.00 0 00 0.00 0.00 - o 1.000 C15.1C/C15.1 1 1.000 0.00 0.00 0.00 a 0.00 0.00 0 1.000 0.00 0.00 - 0 1.000 50981C/50221 1 0.00 1,000 0.00 0 00 0.00 0.00 0.00 0.00 0.00 0 0.00 0.00 0.00 Φ 1.000 0.00 50981C/50981 1 0.00 0 00 0.00 0.00 0.00 0.00 0.00 0.20 0.20 0.00 0.00 0.00 o 0.00 Habitat Means 0.655 --- P-value Power-50% 0.419 Power Power-50% --- P-value 0.655 Power --- P-v/l:ie Power-50% Power-50% --- P-value Fisher's Power 0.310 Power P-value Power-50% 0.500 Power Power-50% --- P-vdue Stouffer's Power 1.000 0 00 0.00 0.00 0.00 1.000 0.00 0 0.00 4 0.00 0.00 n an 1.000 0.00 0.00 0.00 0 0.00 0.00 C15.1C/C15.1 2 0.00 0.00 0.00 0.00 0.00 0.00 ---50981C/50221 2 Ω 6 0.00 0.00 0 --6 0.00 0.00 50981C/50981 2 0.00 0.00 0.00 0.00 0 0.00 0.00 0 0.00 0.00 0.00 0.00 0.00 0.00 Habitat Means Power-50% --- P-value --- z Fower --- P-value Power-50% Power-50% P-vilue --- z Power Fisher's Power ---Power Power-50% --- P-value Power-50% --- P-value --- P-vilue ---Power Power-50% Power ___ Stouffer's 1.000 - 0 0.00 0.00 0.00 0.00 0.00 1.000 0.00 0.00 0.00 - 0 1.000 0.00 0.00 0.00 o 0.00 C15.1C/C15.1 3 0.00 Ð 0.00 0 ---0.00 - 0 50981C/50221 3 0.00 0.00 --5 0.00 0.00 -0 0.00 0.00 --5 0.00 0.00 ~ O 0.00 50981C/50981 3 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 ٥ 0.00 0.00 Habitat Means Power-50% --- P-value --- z --- P-value --- ¿ Power --- z Power Power-50% --- P-value Power-50% Power-50% --- P-value ---Figher's Power Power-50% --- P-value ___ Power ---Power ---Power-50% --- P-value ---Stouffer's Power

x At least one sits pair p-value < 0.100 in opposite direction of overall tasts. y Direction of difference between habitat means is different than direction of overall sate. 2 Only one site pair.

Table C 5.408. Page 1. December '5. 1994

Table C-5.408. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Estuarine. June 1991. Overstory removed July 1990. (Continued.)

					Sa	nd and Mud	ı							Total	l Substr	ate												
Site Pair	Mvd	N	С	SE	N	0	SE	CV	D	P	N	С	8 E	N	0	SE	ĊΨ	D	Þ	N	C	ge	N	٥	SE	CV	ם	P
C15.1C/C15.3 50981C/50223 50981C/50983	1 1	2	0.00 0.00 0.00	0.00 0.00 0.00		0.00 19.34 0.00	0.00 18.31 0.00	-	-	1.000 0,299 1.000	4 2 2	78.13 82.50 82.50	12.56 2.50 2.50	5	65.00 74.00 76.25	6.61 10.62 18.39	-		0.359 0.693 0.895									
Habitat Mean	ns		0.00	0.00	D	6.43	6.10		-			81.03	5.87		71.77	11.87		-										
Fisher's Stouffer's		Power Power	0.000			rer-50% rer-50%				0.362 0.274	Power Power	0.236 0.252			r-50% r-50%	1.000 1.000			0.306 0.202	Power Power				-50% -50%		P-val		
C15.1C/C15.2 50981C/5022 50981C/5098	1 2	0	0.00	0.00	- 3	0.00 2.50 7.50	0.00 2.50 7.50	-	0	1.000	5 0 0	4.50	1.84	3	61.58 2.50 81.25	6.69 2.50 11.19	-	-	0.000									
Habitat Mean	ns		0.00	0.00	0	3.33	3.33		o			4.50	1.80		48.47	6.80		-										
Fisher's Stouffer's		Power Power				er-50% er-50%	I			y: 	Power Power				r-50% r-50%					Power Power			Powe:	-50% -50%		P-val		
C15.1C/C15.2 50981C/5022 50981C/5098	1 3	1	0.00 0.00 0.00	0.00	- 0	0.00 20.76	0.00	-	-	1.000	2 1 <u>:</u>	13.75 0.00 0.00	13.75	0	81.67 47.00	5.07 17.56	-		0.031									
Habitat Mean	ns		0.00	0.00	0	10.40	6.20		o			4.60	13.80		64.35	11.35		-										
Fisher's Stouffer's		Power Power				ver-50% ver-50%		P-val P-val		y;	Power Power				er-50% er-50%		P-va P-va			Power Power				-50% -50%		P-val		

Table C-5.4CR. Page H. December 15, 1994

x At least one s)to pair p value < 0.100 nn opposite direction of overall tests.
y Direction of difference between habitat means is different then direction of overall tests.
z Only one site pair.

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 ciled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O oiled mean; 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	Dive:	raity In	ndex (&)						Alga	l Taz	ka Richn	es (b)							To	tal Alga	8			
Site Pair Mv	d N	c	SE	N	0	SE	CV	Q	P	N	С	SE	N	0	SE	cv	D	P	N	C	SE	n	٥	SE	c	ם עיב	P
30196C/30196 1 31252C/31248 1 31252C/31252 1 99826C/33141 1	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 6	0.10 0.06 0.00 0.00	0.06 0.06 0.00	-		0.175 0.374 1.000 1.000	6 6 6	0.67 0.50 0.50 0.17	0.21 0.22 0.22 0.17	5	1.33 0.60 0.00 0.20	0.42 0.40 0.00 0.20	-	+	0.188 0.824 0.076 0.900	6 6 6	32.08 7.50 7.50 0.83	17.69 4.92 4.92 0.83	5 6	34.58 7.00 0.00 1.00	14.88 5.33 0.00 1.00	3	- :	0.867 0.909 0.121 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	0	-	
Fisher's Stouffer's	Power Power	0.052		Power			P-val P-val		0.202	Power Power	0.118 0.017			er-50% er-50%		P-val P-val		0.416× 0.295	Power Power	0.04 0.07			r-50% r-50%				0.301 0.322
30196C/30196 2 31252C/31248 2 31252C/31252 2 99826C/33141 2	6 6	0.13 0.02 0.02 0.03	0.06 0.02 0.02 0.03	6 6	0.37 0.00 0.00 0.05	0.08 0.00 0.00 0.05	-	+	0.038 0.363 0.363 0.646	6 6 6	1.83 0.83 0.83 0.83	0.70 0.31 0.31 0.31	6	3.80 0.17 0.17 0.75	0.92 0.17 0.17 0.48	-	- - -	0.117 0.086 0.086 0.881	6 6 6	60.00 9.17 9.17 21.25	19.14 5.43 5.43 9.53	6 6	54.50 1.67 2.50 5.63	13.66 1.67 2.50 3.59	7 0	- +	0.947 0.140 0.190 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	8	+	
Fisher's Stouffer's	Power Power	0.229 0.048		Power Power			P-val P-val		0.201 0.168	Power Power	0.193			r-50% r-50%		P-val P-val		0.073 y 0.435	Power Power	0.48			er-50% er-50%				0.057 0.100
30196¢/30196 3 31252¢/31248 3 31252¢/31252 3 99826¢/33141 3	6 6	0.32 0.08 0.08 0.00	0.13 0.08 0.08	5 6	0.50 0.04 0.04 0.13	0.16 0.04 0.04 0.13	-	+	0.430 0.730 0.687	4 6 6 1	3.00 0.83 0.83 1.00	0.82 0.65 0.65	5	4.80 0.60 0.67 1.33	1.59 0.40 0.33 0.88	- - -	- • •	0.385 0.779 0.825	4 6 6 1	71.25 11.25 11.25 2.50	18.21 9.83 9.83	5 6 3	63.50 5.00 6.67 34.17	10.80 3.06 4.46 32.92	6 2	- + - : 	0.804 0.790 0.902
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	2	+	
Fisher's	Power	0.009		Power					0.591 y 0.630	Power Power	0.011 0.020			er-50% er-50%		P-val P-val		0.665 y 0.688	Power Power	0.02 0.04			er-50% er-50%				0.509 y 0.356

(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 rests. 2 Only one site pair.

Perennials (P) Rock Total Invertebrates SE CV D N C N P 8E 8E CV D P σ Site Pair Mvd N С SE 0 CV D P C N 0 15.88 14.73 0.416 32.08 17.69 15.46 0.974 0.42 0.42 0.020 50.00 65.00 30196C/30196 1 17.92 7.23 4.92 7.00 5.33 - + 0.909 81.00 6.92 - - 0.169 7.50 13.21 31252C/31248 1 6 35.83 14.41 11.50 5.16 0.174 56 67 5 13.21 28.75 10.34 - . 0.129 7.50 4.92 0.00 0.00 - 1 0.121 56.67 31252C/31252 1 6 35.83 14.41 71.25 10.34 - - 0.074 6 0.83 0.83 1.00 1.00 0.900 12.39 90.50 3.57 - - 0.168 33.33 10.76 8.50 3.84 - + 0.144 64.17 99826C/33141 1 1: 98 7.07 9.30 5.45 66.33 8.88 11.70 56,90 13.68 22 92 4 93 Habitat Means 30.70 Power-50% 0.24° P-value 0.278 --- P-value 0.013x 0.155 Power-50% 0.599 P-value 0.106 Power 0.060 Power Fisher's Power Power-50* Power-50% 0.405 P-value 0.267 0.095 0.673 P-value 0.196 Power 0.102 Power-50% Stouffer's Power ---Power-50% --- P-value 0.024 Power 29.17 46.50 1.67 2.50 10.08 - - 0.291 38.33 18.09 36.50 15.36 0.978 18.06 5 0.50 0.565 0.85 5 0.50 30196C/30196 2 6 1 25 5.74 2.67 - - 0.403 7.50 9.03 0.735 59.17 7.43 6 62.50 9,77 - - 0.751 6 6 35.83 31252C/31248 2 6 31.67 8.18 6 5.74 2.50 - + 0.482 - + 0.004 7.50 72.92 4.35 _ _ 0.002 59.17 7.43 6 24.58 5.22 6 31252C/31252 2 31 67 8.18 -6 - - 0.319 - - 0.003 20.42 9.14 4 5.00 3.06 27.50 9.51 4 88.75 7.18 6 5.62 5.63 0.001 5.41 4 99826C/33141 2 46.67 9.40 16.15 9.65 13.92 4.35 27.85 5.93 28.70 4.88 46.05 10.60 53.10 Habitat Means 0.050 Power-50% 0.389 P-value 0.263 Power-50% --- P-value 0.042x Power --- P-value 0.019xy Power Power-50% Fisher's Power 0.050 Power-50% 0.835 P-value 0.751 Power 0.049 Power-50% 0.607 P-value 0.554 0.028 Power-50% 0.991 P-value 0.716 Power Stouffer's Power 0.889 31.87 11.52 41.00 5.40 - - 0.423 28.75 18.21 5 33.50 9,17 30196C/30196 3 0.00 0.00 5 0.50 0.50 0.374 73.75 51.50 - + 0.081 7.50 7.50 2.00 2.00 - + 0.702 9.74 5 2.57 43.50 _ _ 0.022 31252C/31248 3 15.00 8.04 5 5.28 - + 0.886 6.25 - -73.75 9.74 6 50.42 12.56 - - 0.157 7.50 7.50 4.55 31252C/31252 3 15.00 8.04 42.92 13.28 0.121 15.83 25,00 42.50 29.83 0.00 15.83 99826C/33141 3 30.00 --3 23.33 23.33 11.73 8.83 16.27 6.95 10,60 50.35 12.53 44.48 13.55 15.00 5.33 27.55 Habitat Means 0.301 P-value 0.650 y --- P-value 0.048 0.003 Power-50% Power-50% Power-50% --- P-value 0.006 Power Fisher's Power Power-50% 0.384 P-value 0.662 0.761 P-value 0.113 0.010 --- P-value 0.010 Power 0.102 Power-50% Power Power-50% DOMON ___

Table 0-5.409. 🕰 December 15, 1994

x At least one site pair p value < 0.120 in opposite direction of overall tests.</p>
y Direction of difference between habitat means is different than direction of overall tests.
2 Only one site pair.

Table C-5.409. Algal Percent Cover. Totals and Seasonal Groups. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Overstory removed June 1990. (Continued.)

				Annu	als (A)							Ephem	erals (A	LE)												
nite hair Mad	M	C	ű v	n	n	QP	CA	n P	N	r.	8R	N	0	SE	CV D)	P	N	C	SE	N	0	SE	ÇV	D	P
30196C/30196 1 31252C/31248 1 31252C/31252 1 99826C/33141 1	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 6	5.42 0.00 0.00 0.00	5.42 0.00 0.00 0.00	-	- 0.363 0 1.000 0 1.000 0 1.000	6 6	0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6	5.00 0.00 0.00 0.00	5.00 0.00 0.00 0.00	- 0 - 0	1	.363 .000 .000									
Habitat Means		0.00	0.00		1.35	1.35		-		0.00	0.00		1.25	1.25	-	-										
Fisher's Stouffer's	Power Power			Power Power				e 0.477 e 0.232					r-50% r-50%		P-value P-value			Power Power			Power			P-val P-val		
30196C/30196 2 31252C/31248 2 31252C/31252 2 99826C/33141 2	6 6	30.83 1.67 1.67 0.83	18.83 1.24 1.24 0.83	6	8.00 0.00 0.00 0.63	7.39 0.00 0.00 0.63	-	+ 0.362 • 0.194 + 0.194 • 0.971	6 6	15.00 0.00 0.00 0.83	13.56 0.00 0.00 0.83	6 6	1.00 0.00 0.00 0.00	1.00 0.00 0.00 0.00	- 0	1 2	.387 .000 .000 .363									
Habitat Means		8.75	5.50		2.15	2.00		-		3.95	3,60		0.25	0.25		•										
Fisher's Stouffer's	Power Power			Power Power				e 0.077 e 0.035		0.000			r-50% r-50%		P-value P-value		1.304	Power Power			Power			P-val P-val		
30196C/30196 3 31252C/31248 3 31252C/31252 3 99826C/33141 3	6 6	39.38 3.75 3.75 2.50	18.99 2.56 2.56	5	22.50 3.00 0.42 18.33	12.20 2.42 0.42 17.10	-	- 0.496 - 0.936 - 0.293	6 5	0.00 0.00 0.00 0.00	7.97 0.00 0.00	5 6	5.50 0.00 0.00 3.33	3.39 0.00 0.00 2.20	- c	5 -	000									
Habitat Means		12.37	8.07		11.05	8.02	?	+		3.75	2.67		2.20	1.40	4	4										
Fisher's Stouffer's	Power Power	0.140 0.212		Power Power				e 0.227 e 0.168		0.019 0.007			r-50% r-50%		P-value P-value			Power Power			Power			P-val P-val		

x At least one site pair p-value < 0.100 in opposite direction of overal tests, y Direction of difference between habitat nears is different than director of overall cests. 2 Chly one size pair.</p>

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; dashos = insufficient data.

			_	1 0	hioroph					Morph	ologi	cal G	roup: B	laded Gr	eens					Blad	ied Gr	eens (A	(a)			
Site Pair Mvd	- N	С	SE	N N	0	SE	CA	D F	N		SE	N	0	SE	cv	D	P	N	c	SE	Ŋ	0	SE	CA	D	P
30196C/30196 1 31252C/31248 1 31252C/31252 1 99826C/33141 1	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6 5	5.00 0.00 0.00 0.00	5.00 0.00 0.00	_	- 0.3 o 1.0 o 1.0	00 6 00 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 6	5.00 0.00 0.00 0.00	5.00 0.00 0.00 0.00	-	0	0.363 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00 0.00	5	5.00 0.00 0.00 0.00	5.00 0.00 0.00 0.00	- - -	0	0.363 1.000 1.000 1.000
Habitat Means Fisher's	Power Power	0.00	0.00	Power-			P-val	- ue 0.4 ue 0.2		0.00	0.00	Power			P-val P-val		0.477 0.232	Power Power	0.00	0.00	Power Power			P-valı P-valı	ie ie	0.232
Stouffer's 30196C/30196 2 31252C/31248 2 31252C/31252 2 99826C/33141 2	6 6	15.00 0.42 0.42 0.83	13.56 0.42 0.42 0.83	5 6	2.50 0.00 0.00 0.00	2.50 0.00 0.00	- 1 -	+ 0.4	168 6 863 6 863 6	1.25 0.00 0.00 0.83	1.25 0.00 0.00 0.83	6	1.00 0.00 0.00 0.00	1.00 0.00 0.00 0.00	-	0	0.987 1.000 1.000 0.363	6 6 6	1.25 0.00 0.00 0.83	1.25 0.00 0.00 0.83	6 6 4	1.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0 0	0.987 1.000 1.000 0.363
Habitat Mcans Fisher's	Power	0.067	3.80	Power Power		0.63	P-val	ue 0.1		0.53	0.53	Power			P-val		0.474 0.468	Power Power	0.53		Powe:	0.25 r-50% r-50%		P-val		0.474 0.468
Stouffer's 30196C/30196 3 31252C/31248 3 31252C/31252 3	6	15.00 0.00 0.00 0.00	7.97 0.00 0.00	5 5 6	7.50 0.00 0.00 3.33	5.00 0.00 0.00 2.20) -) -	- 0.0 0 1.0 0 1.0	142 4 000 6	1.88 0.00 0.00 0.00	1.20 0.00 0.00	5	5.50 0.00 0.00 3.33	3.39 0.00 0.00 2.20	-	0	0.648 1.000 1.000	4 6 6	1.88 0.00 0.00 0.00	1.20 0.00 0.00	5	5.50 0.00 0.00 3.33	3,39 0.00 0.00 2.20) -) -	0	0.648 1.000 1.000
99826C/33141 3 Habitat Means	-	3.75	2.67	-	2.70	1.8)	+		0.48	0.40		2.20	1.40	P-va	-	0.540	Power	0.48	0.40		2.20 r-50%	0.036		- ue	0.540
Fisher's	Power			Power Power				ue 0. ue 0.		0.004 0.003		Power			9-va. 9-va		0.356	Power	0.003			r-50%				0.356

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

z Only one site p	pair,					Fine Fi	1	a					Acı	rosip	honia sp.	(A)					Cha	etomor	pha/R	hizocloni	um (A)	(a)		
			lorpholog		roup:	0	SE	CV	D	P	N	С	SE	N	0	ge	CV	D	P	N	С	SE	N	0	SE	CA	D	P
Site Pair	Mvd	N	С	SE			_		_		6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00		0.00	0.00		-	1.000
30196C/30196 31252C/31248 31252C/31252	3 1 2 1	6 6	0.00 0.00 0.00	0.00 0.00 0.00	5 6	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 6	0.00 0.00 0.00	0.00	5 6	0.00 0.00 0.00	0.00		0	1.000 1.000 1.000	6 6	0.00 0.00 0.00	0.00 0.00 0.00	б	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000
99826C/33141 Habitat Mear		ь	0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's		Power		0.00	Power Power	-50%				0.698	Power Power				er-50% er-50%		P-val P-val		0.698 0.500	Power Power				r-50% r-50%		P-valu P-valu	e	0.500
Stouffer's 30196C/30196 31252C/31248 31252C/31252	6 2 8 2 2 2	Power 6 6	0.00 0.42 0.42 0.00	0.00 0.42 0.42	5 6 6	1.50 0.00 0.00 0.00	1.50 0.00 0.00 0.00	-	- + +	0.374 0.363 0.363 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6	1.50 0.00 0.00 0.00	1.50 0.00 0.00 0.00	-	0	0.374 1.000 1.000	6 6 6	0.00 0.42 0.42 0.00	0.00 0.42 0.42 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-		1.000 0.363 0.363 1.000
99826C/33141 Habitat Mean		ь	0.20	0.20		0.38	0.38		+			0.00	0.00		0.38	0.38		-			0.20	0.20		0.00	0.00	P-valu	-	0 205
Fisher's Stouffer's		Power			Power			P-va P-va		0.375 y 0.487	Power Power				er-50% er-50%		?-val ?-val		0.483	Power Power		-	Powe	r-50% r-50%		P-valu	e	0.227
30196C/30190 31252C/31240 31252C/31250 99826C/33140	6 3 8 3 2 3	4 6 6	0.00 0.00 0.00	0.00 0.00 0.00	5	2.00 0.00 0.00 0.00	2.00 0.00 0.00	-	-	0.374 1.000 1.000	4 6 6 1	0.00 0.00 0.00 0.00	0.00	5 6 3	2.00 0.00 0.00 0.00	2.00 0.00 0.00 0.00	- - -	0	0.374 1.000 1.000	4 6 6 1	0.00 0.00 0.00 0.00	0.00	5 6 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000
Habitat Mea			0.00	0,00	•	0.50	0.50		-			0.00	0.00		0.50	0.50			0.409	Power	0.00			r-50%		P-valu		0.655
Fisher's		Power			Power					0.409 0.236	Power Power				er-50% er-50%		P-val P-val		0.236	Power				r-50%		P-valu	e	0.500

Table C 5.410. Page 1. December 15, 1994

Table C-5.410. Algal Percent Cover. Chlorophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Overstory removed June 1990. (Continued.)

				Cl	adopho	ra sp. (AE)						υ	loth	rix ap. (A	E)						τ	rospo	ra sp. (<i>)</i>	LE)			
Site Pair)	Mvd	N	c	SE	N	0	SE	cv	D	P	N	c	SE	N	٥	SE	CA D		P	N	С	se	Ŋ	0	SE	C	7 D	P
30196C/30196 31252C/31248 31252C/31252 99826C/33141	1	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6	0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0	1	.000 .000 .000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00		- 0	1.000 1.000 1.000 1.000
Habitat Means	8		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	0				0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power			Power			P-valu P-valu		0.698 0.500	Power Power				r-50% r-50%		-value -value		.698 .500	Power Power				-50% -50%				0.698
30196C/30196 31252C/31248 31252C/31252 99826C/33141	2	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6	0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0	1	.000 .000 .000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 0.00 0.00	0.00 0.00 0.00		- 0	1.000 1.000 1.000 1.000
Habitat Means			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	0				0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	1	Power Power			Power Power			P-valu P-valu		0.698 0.500	Power Power				r-50% r-50%		e-value		.698 .500	Power Power		-	Power	c-50% c-50%		P-V	alue	0.698 0.500
30196C/30196 31252C/31248 31252C/31252 99826C/33141	3	4 6 6 1	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	4 6 6 1	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 6 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c	1	.000	4 6 6 1	0.00 0.00 0.00	0.00	5 6 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00		- 0	1.000 1.000 1.000
Habitat Mean	s		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	c	1			0.00	0.00		0.00	0.00		0	
Fisher's		Power			Power			P-valu P-vai		0.655 0.500	Power Power				er-50% er-50%		?-valu¢ ?-valu€		.655 .500	Power Power				r-50% r-50%				0.655 0.500

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

Blidingia/Enteromorpha (AE) (a) Morphological Group: Tubular and Saccate Greens С SE N 0 SE CV D P N 0 92 CV D P c Site Pair Mvd N 8E ٥ SR מ עם 1.000 1.000 0.00 0.00 0.00 0.00 0 0.00 0.00 0.00 0.00 30196C/30196 0.00 1.000 0.00 0 1.000 0.00 0.00 5 0.00 0.00 0 31252C/31248 1 0.00 5 0.00 1.000 1.000 0.00 0.00 0.00 0 0.00 0.00 Q 0.00 31252C/31252 1 0.00 - 0 0.00 0.00 0.00 0.00 0.00 - 0 1.000 0.00 0.00 5 99826C/33141 1 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0.00 Habitat Means Power-50% --- P-value --- P-value 0.698 Power-50% Power ------ P-value 0.698 Power-50% Power Fisher's Power --- P-value Power-50% Power-50% --- P-value 0.500 Power ---Power-50% --- P-value 0.500 Power Stouffer's Power 0.00 0.363 13.75 0.00 - + 0.363 13.75 13.75 13.75 0.00 0.00 30196C/30196 2 0.00 0.00 0.00 - 0 1.000 0.00 6 0.00 0.00 0.00 - 0 1.000 6 31252C/31248 2 0.00 0.00 0.00 6 0.00 0.00 - o 1,000 0.00 0.00 0.00 - 0 1.000 0.00 31252C/31252 2 0.00 0.00 0.00 - o 1.000 0.00 - o 1.000 99826C/33141 2 6 0.00 0.00 0.00 0.00 3.45 3.45 0.00 0.00 3.45 3.45 0.00 0.00 Habitat Means --- P-value Power-50% --- P-value 0.477 Power-50% power --- P-value 0.477 Power Power-50% Fisher's Power ?ower-50% --- P-value Power-50% --- P-value 0.232 Power --- P-value 0.232 Stouffer's Power-50% Power Power 13.13 7.59 0.00 0.182 0.00 0.182 13.13 7.59 0.00 30196C/30196 3 4 0.00 0.00 0.00 - o 1.000 0.00 - 0 1.000 0.00 0.00 0.00 0.00 31252C/31248 3 6 - o 1.000 - o 1.000 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 31252C/31252 3 0.00 0.00 0.00 - 0 0.00 0.00 0.00 - 0 99826C/33141 3 1 0.00 0.00 0.00 3.28 2.53 0.00 3.28 2.53 Habitat Means 0.061 P-value 0.272 Power-50% --- P-value 0.069 Power-50% Power 0.066 P-value 0.272 Power 0.060 Power-50% Fisher's Power Power-50% --- P-value 0.069 Power-50% 0.061 P-value 0.140 Power 0.066 P-value 0.140 Power Stonffor's Power 0.060 Power-50%

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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 differenc than direction of overall tests.
z Dnly one site pair.

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; SZ = standard error; D = direction of difference; + control > oiled; - = control < oiled; o = control - oiled; P = probability value; dashes = insufficient data.

		_		Tota1	Phaeoph	yta				Mor	phologi	cal	Group:	Bladed Br	BITWO					Alaria	sp. (A	.)			
Site Pair Mvd	l N	c	SE	N	0	SE	CV	D P	N	С	ŜE	N	0	SE	CA D	P	N	С	SE	N	٥	SE	CV	D	P
30196C/30196 1 31252C/31248 1 31252C/31252 1 99826C/33141 1	6	32.08 7.50 7.50 0.83	17.69 4.92 4.92 0.83	5	29.17 6.00 0.00 1.00	15.47 5.40 0.00 1.00	_	+ 0.971 + 0.784 + 0.121 - 0.900	6	32.08 7.50 7.50 0.83	17.69 4.92 4.92 0.83	5 6	28.75 5.00 0.00 1.00	15.58 5.40 0.00 1.00	- +	0.954 0.784 0.121 0.900	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	_	0 :	1.000 1.000 1.000 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		0	
	Power Power	0.072 0.134		Power Power		0.237 E 0.396 E			Power Power	0.076			er-50% er-50%	0.266	P-value P-value		Power Power			Power-			-valu		
30196C/30196 2 31252C/31248 2 31252C/31252 2 99826C/33141 2	6 6	15.42 7.08 7.08 20.42	13.52 5.34 5.34 9.14		35.00 1.67 0.00 3.13	12.07 1.67 0.00 3.13	-	- 0.180 + 0.410 + 0.199 + 0.193	6 6	15.42 7.08 7.08 20.42	13.52 5.34 5.34 9.14	6 6	35.00 1.67 0.00 3.13	12.07 1.67 0.00 3.13	 - + - +	0.180 0.410 0.199 0.193	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	6	4.00 0.00 0.00 0.00	4.00 0.00 0.00	-	0 1	0.374 1.000 1.000 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			
	Power Power	0.135 0.150		Power Power		0.487 F 0.749 F		0.124 e 0.556	Power Power	0.134			er-50% er-50%	0.518 0.755		0.124 0.556	Power Power			Power-			-valu		
30196C/30196 3 31252C/31248 3 31252C/31252 3 99826C/33141 3	6	25.62 0.00 0.00 0.00	13.40 0.00 0.00	5 5 6 3	35.50 2.00 5.83 30.83	6.96 2.00 4.50 30.83	-	- 0.374 - 0.203	4 6 6 1	25.62 0.00 0.00 0.00	13.40 0.00 0.00	5	35.50 2.00 5.83 15.83	6.96 2.00 4.50 15.83		0.428 0.374 0.203	4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 6	5.50 0.00 0.00 0.00	3.91 0.00 0.00 0.00	- :	0 2	0.195 1.000 1.000
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		-	
	Power Power			Power Power				0.088	Power				r-50% r-50%		P-value P-value		Power Power	0.005 0.001		Power- Power-		E	-valu		

 χ At least one sits pair p-value < 0.100 in apposite direction of overall bests. γ Direction of difference between habitat means is different than direction of overall tests. γ only one site pair.

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			Tota	l Fuc	us gardı	meri (P)					Ad.	ult Fr	cus g	ardneri	(P) (> :	2cm)				Juver	aile F	ucus ,	gardneri	(P) (<=	2	com)	
Site Pair Mv	d N	С	SE	Ŋ	- 0	SE	CV	D	P	N	c	SE	N	0	ŚE	¢v	D	P	N	С	SE	N	0	SE		CV D	P
30196C/30196 1 31252C/31248 1 31252C/31252 1 99826C/33141 1	6 6	32.08 7.50 7.50 0.83	17.69 4.92 4.92 0.83	5	28.75 6.00 0.00 1.00	15.5 5.4 0.0 1.0	0 – 0 –	+	0.954 0.784 0.121 0.900	6 6 6	31.67 3.75 3.75 0.83	27.84 2.39 2.39 0.83	5	28.33 5.50 0.00 0.00	4.90) –) –	+	0.990 0.857 0.176 0.363	6 6 6	0.42 3.75 3.75 0.00	0.42 3.28 3.28 0.00	5	0.42 0.50 0.00 1.00	0.42 0.50 0.00 1.00		- +	1.000 0.441 0.233 0.374
Habitat Means		11.98	7.07	,	8.95	5.5	0	-			10.02	5.85		8.45	5.15	5	-			2.00	2.75		0.48	0.48			
Fisher's Stouffer's	Power				r-50% r-50%				0.254 0.236	Power Power	0.120 0.247			r-50%	0.588 0.753	P-val P-val		0.213	Power Power	0.011			r-50% r-50%				0.332 0.236
30196C/30196 2 31252C/31248 2 31252C/31252 2 99826C/33141 2	6 6	15.42 7.08 7.08 20.42	13.52 5.34 5.34 9.14	6	31.00 1.67 0.00 3.13	10.00 1.6 0.00 3.1	7 – 3 –	-	0.214 0.410 0.199 0.193	6 6 6	15.42 6.25 6.25 20.42	13.52 5.31 5.31 9.14	6	31.00 1.67 0.00 3.13	1.67	7 –) –	-	0.214 0.473 0.226 0.193	6 6 6	0.00 0.83 0.83 0.00	0.00 0.83 0.83 0.00	6 6	0.00 0.00 0.00	0.00 0.00 0.00		- +	1.000 0.363 0.363 1.000
Fabitat Means		12.50	8.30	l	8.95	3.7	3	+			12.10	8.30		8.95	3.73	3	+			0.40	0.40		0.00	0.00		~	
Fisher's Stouffer's	Power Power				r-50% r-50%	0.525 0.735			0.123 0.525	Power Power	0.110 0.140			r-50% r-50%	0.434 0.698				Power Power				r-50% r-50%			value value	0.295 0.227
30196C/30196 3 31252C/31248 3 31252C/31252 3 99826C/33141 3	6 6	25.62 0.00 0.00 0.00	13.40 0.00 0.00	5	30.00 2.00 5.83 15.83	7.00 2.00 4.50 15.83) -) -	-	0.655 0.374 0.203	6 6 1	25.00 0.00 0.00 0.00	12.79 0.00 0.00	5	30.00 2.00 5.83 15.83	7.07 2.00 4.50 15.83) –) –	-	0.617 0.374 0.203	4 6 6	0.63 0.00 0.00 0.00	0.63 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00		- 0	0.391 1.000 1.000
Habitat Means		6.40	4.47		13.40	7.35	5	-			6.25	4,27		13.40	7.35	;	-			0.15	0.20		0.00	0.00		_	
Fisher's Stouffer's	Power	000			r-50% r-50%		P-valı P-valı			Power Power	0.263 0.423			r-50% r-50%				0.113 0.101	Power Power			Power	c-50% c-50%			value value	0.419

Table C-5.411. Algal Percent Cover. Phaeophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Overstory removed June 1990. (Continued.)

				Fu	cus S	tipes (P)	(a)				Mo	orphologic	al Gr	oup:	Coarse I	Filament	ous Br	owi	ns		¥	yelophy	cus/S	cytosiph	(A) ac	(a)	ı	
Site Pair	Mvd N		С	SE	N	٥	SE	CV	D	P	N	С	SE	N	0	SE	CV :	D	P	N	С	SE	N	0	SE		CV D	P
30196C/30196 31252C/31248 31252C/31252 99826C/33141	8 1 6 2 1 6		0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 6	0.00 0.50 0.00 0.00	0.00 0.50 0.00 0.00	- - - -	-	1,000 0.374 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 6	0.42 0.00 0.00 0.00	0.42 0.00 0.00 0.00	- (0	0.363 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6	0.42 0.00 0.00 0.00	0.42 0.00 0.00 0.00	0	- o	0.363 1.000 1.000 1.000
Habitat Mear	ns		0.00	0.00		0.13	0.13		-			0.00	0.00		0.10	0.10		-			0.00	0.00		0.10	0.10	0	-	
Fisher's Stouffer's	Pov s Pov					r-50%				0.483 0.339	Power Power				r-50% r-50%		P-valu P-valu		0.477 0.232	Power Power				c-50% c-50%				0.477 0.232
30196C/30196 31252C/31246 31252C/31252 99826C/33143	8 2 6 2 2 6		0.42 0.00 0.00 0.00	0.42 0.00 0.00 0.00	6 6	0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	Q	0.363 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 1	0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	0	- o	1.000 1.000 1.000 1.000
Habitat Mear	ns		0.10	0.10		0.00	0.00		_			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	0	0	
Fisher's Stouffer's	Pov s Pov					er-50% er-50%	- 			0.477 0.232	Power Power				r-50% r-50%		P-valu P-valu		0.698 0.500	Power Power				r-50% r-50%				0.698 0.500
30196C/30196 31252C/31246 31252C/31257 99826C/3314	8 3 6 2 3 6		0.00 0.00 0.00 0.00	0.00 0.00 0.00	- 5	0.00 0.00 0.00 0.00	0.00 0.00 0.0 0.00	- - -	-	1.000 1.000 1.000	4 6 6 1	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 6	0.00 0.00 0.00 15.00	0.00 0.00 0.00 15.00	- 1	0	1.000 1.000 1.000	4 6 6 1	0.00 0.00 0.00 0.00	0.00	5 6 3	0.00 0.00 0.00 15.00	0.00 0.00 0.00 15.00	0 0 0	- 0 - 0 - 0	1.000 1.000 1.000
Habitat Mean	ns		0.00	0.00		0.00	0.00		0			0.00	0.00		3.75	3.75		0			0.00	0.00		3.75	3.75	5	0	
Fisher's Stouffer's		ver ver				r-50% r-50%		P-va P-va		0.655 0.500	Power Power				er-50% er-50%		P-valu P-valu		0.655 y 0.500	Power Power				r-50% r-50%				0.655 y 0.500

⁽a) Dead fucus plants or stipes without blades.

Fine Filamentous Browns (AE) (b) Morphological Group: Crustose Browns Morphological Group: Fine Filamentous Browns SE SE ČV D P CV D P N С 0 N 0 ØE CV D P N С SE AR c SE Site Pair Mvd N 0.00 1.000 0.00 0.00 0.00 0.00 1.000 0.00 1.000 0.00 0.00 0.00 0 0.00 0.00 Ö 30196C/30196 1 0.00 0.00 0.00 0.00 0 1 000 0.00 0.00 1.000 1,000 0.00 0.00 0.00 0.00 0.00 0.00 0 5 0 31252C/31248 1 1.000 0.00 0.00 - o 1.000 0.00 0.00 0.00 0.00 0 0.00 0.00 0.00 0.00 0.00 O 1.000 0.00 6 31252C/31252 1 - 0 0.00 0.00 0.00 0.00 0 1.000 0.00 0.00 1.000 0.00 0.00 0.00 0 1.000 0.00 0.00 - 5 99826C/33141 1 0.00 0.00 0.00 0.00 0.00 0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 Habitat Means 0.00 Power-50% --- P-value 0.698 Power-50% --- P-value 0.698 Power Power-50% --- P-value 0.698 Power Fisher's Power ---Power-50% --- Prvalue --- P-value 0.500 Power Power-50% ___ P-value 0.500 Power Stouffer's Power ---Power-50% - 0 0.00 0.00 0.00 0.00 - 0 1.000 0.00 1.000 0.00 0.00 0.00 0.00 1.000 6 0.00 0 30196C/30196 2 0.00 5 0.00 - 0 0,00 0.00 0.00 0.00 - 0 1.000 0.00 0.00 0.00 0 1.000 0.00 0.00 0 00 0 00 31252C/31248 2 0.00 6 - 0 1,000 0.00 0.00 0.00 0.00 - o 1.000 0.00 0.00 0.00 0.00 0.00 0.00 _ 0 1.000 0.00 0.00 31252C/31252 2 0.00 0.00 0.00 - o 1.000 0.00 0.00 0.00 - o 1.000 0.00 0.00 0.00 0 1.000 0.00 0.00 0.00 99826C/33141 2 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 O Habitat Means 0.00 0.00 0.00 0.00 0 P-value 0.698 Power Power-50% --- P-value 0.698 Power-50% --- P-value 0.698 Power-50% Power ---Fisher's Power --- P-value 0.500 Power-50% Power ---Power-50% --- P-value 0.500 ---Power-50% --- P-value 0.500 Power Stouffer's Power 1.000 - 0 0.00 0.00 1.000 0.00 0.00 0.00 0 00 0.00 0.00 30196C/30196 3 4 0.00 0.00 5 0.00 0.00 0 1,000 4 0.00 0.00 0.00 -0 1.000 0.00 0.00 0.00 0.00 - 0 1.000 0.00 1.000 31252C/31248 3 0.00 0.00 5 0.00 0.00 0 6 - 0 1.000 6 0.00 0.00 0.00 0.00 _ 0 1.000 6 0.00 0.00 0.00 0.00 31252C/31252 3 0.00 0.00 6 0.00 0.00 Ω - 0 0.00 0.00 0.00 0.00 0.00 0.00 99826C/33141 3 0.00 0.00 0.00 0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0.00 0.00 0.00 0.00 Q Habitat Means

Power-50%

Power-50%

--- P-value 0.655

--- P-value 0.500

Power

Power

Power

Power

Power-50%

Power-50%

--- P-value

--- P-value 0.500

0.655

Power

Power

Fisher's

Stouffer's

--- P-value 0.655

--- P-value 0.500

Power-50%

Power-50%

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⁽a) Cenera not apparted. X At least one wite pair p-value < 0.100 in opposite direction of overall tests. y Direction of difference between mabitat means is different than direction of overall tests of Only one wite pair.

⁽b) Elechista, Ectocarpus and Pilayella.

x At least one site pair p-velue < 0.100 in opposite direction of overall tasts.</p>
y Direction of difference between habitat means is different than direction of overall tests, only one site pair.

Table C-5.411. Algal Percent Cover. Phaeophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Overstory removed June 1990. (Continued.)

			Ralfs	ia/Pet	roderma	(P) (a)			. —																	
ite Pair My	a N	c	SE	N	0	SE	cv	D P	N	C	SE	N	٥	SE	ÇV	ъ	P	N	С	SE	N .	0	SĖ	C	D	P
0196C/30196 1 1252C/31248 1 1252C/31252 1 9826C/33141 1	. 6 . 6	0.00 0.00 0.00	0.00 0.00 0.00	5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	_	o 1.00 o 1.00 o 1.00 o 1.00																		
abitat Means		0.00	0.00)	0.00	0.00		0													Power	-50%		P-V	ilie	
Fisher's Stouffer's	Power				r-50% r-50%		P-valı P-valı	e 0.69 e 0.50	Power Power			Power-			P-va P-va			Power Power			Power			P-va		
0196C/30196 1252C/31248 1252C/31252 9826C/33141	2 6	0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 0.00 0.00	0.00 0.00 0.00) -	o 1.00 o 1.00 o 1.00 o 1.00	0																	
abitat Means		0.00	0.0)	0.00	0.00	1	0													_	- 00		P-v	1110	
Fisher's Stouffer's	Power				r-50% r-50%		P-valu P-valu	e 0.69 ie 0.50	8 Power 0 Power			Power-			P-vê P-vê			Power			Power					
0196C/30196 1252C/31248 1252C/31252 9826C/33141	3 6 3 6	0.00 0.00 0.00	0.0	0 5 0 5 0 6 - 3	0.00 0.00 0.00	0.00 0.00 0.00) -	o 1.00 o 1.00 o 1.00	0 0																	
Mabitat Means		0.00	0.0	0	0.00	0.00)	0													Power	. FO9		P-v	20.00	
Fisher's	Powe				r-50%			ie 0.65				Power			P-va			Power Power			Power			5-4		

(a) Genera not Beparated.

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

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	Rhodoph	/ta					Mor	pholog	ical	Group:	Bladed F	Reds					Gigart	inace	ae Groug	P) (a))		
Site Pair Mv		c	SE	N	0	9E	cv	D	P	N	С	SE	N	٥	SE	CV I	D	P	N	С	SE	N	0	SE	C.	V D	P
30196C/30196 1 31252C/31248 1 31252C/31252 1 99826C/33141 1	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5	0.42 1.00 0.00 0.00	0.4: 1.0: 0.0:	0 -	0	0.363 0.374 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00 0.00	5	0.42 0.00 0.00 0.00	0.42 0.00 0.00 0.00	- 0	0	0.363 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 5	0.42 0.00 0.00 0.00	0.42 0.00 0.00 0.00)	- 0	0.363 1.000 1.000 1.000
Habitat Means Fisher's Stouffer's	Power Power	0.00	0.00	Power Power		0.3	P-val		0.299 0.126	Power Power	0.00	0.00		0.10 er-50% er-50%		P-value P-value		0.477 0.232	Power Power	0.00		Powe	0.10 r-50% r-50%		P-v		0.477 0.232
30196C/30196 2 31252C/31248 2 31252C/31252 2 99826C/33141 2	6 6	29.58 1.67 1.67 0.00	17.35 1.24 1.24 0.00	6 6	17.00 0.00 2.50 2.50	3.6 0.0 2.5 1,7	0 -	_	0.918 0.194 0.939 0.204	6 6 6	25.00 0.00 0.00 0.00	15.06 0.00 0.00 0.00	6	8.50 0.00 0.00 0.00	2.57 0.00 0.00 0.00	- 0	0	0.684 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	11.53 0.00 0.00 0.00	6 6	8.00 0.00 0.00 0.00	2.89 0.00 0.00 0.00)	- 0	0.819 1.000 1.000 1.000
Habitat Means Fisher's Stouffer's	Power Power	8.25 0.021 0.014	4.95	Power Power		2.0 0.239 0.483	P-va		0.462 0.284	Power Power	0.000 0.000		Powe	2.13 er-50% er-50%		P-value P-value		0.613 0.372	Power	3.13 0.00 0.00		Powe	2.00 =-50% =-50%		P-v		0.653 0.427
30196C/30196 3 31252C/31248 3 31252C/31252 3 99826C/33141 3	4 6 6	30.63 11.25 11.25 2.50	14.34 9.83 9.83	5 6	20,50 3.00 0.83 0.00	7.0 2.4 0.5 0.0	2 -	+	0.697 0.617 0.385	4 6 6	24.37 0.00 0.00 0.00	11.52 0.00 0.00	5 6	11.50 0.00 0.00 0.00	3.02 0.00 0.00 0.00	- 0	o	0.474 1.000 1.000	4 6 6 1	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5	4.00 0.00 0.00 0.00	2.92 0.00 0.00 0.00)	- o - o	0.199 1.000 1.000
Habitat Means Fisher's Stouffer's	Power Power	13.92 0.122 0.203	11.30	Power Power		2.5 0.309 0.493	P-va		0.256 0.195	Power Power	6.10 0.067 0.029	3.83	Powe	2.88 er-50% er-50%		P-value P-value		0.463 0.281	Power Power	0.00 0.00 0.00		Powe	1.00 r-50% r-50%		2-v		0.286 0.150

(a) Chondrus, Iridaes, Mastocarpus and Rhodoglossum.
 x As least one site pair p-value < 0.100 in opposite direction of 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

			F	almari	а врр.	(A)						Phy	ycodr	ye riggii	. (A)							Porpa	yra ap. (A.)			
Site Pair Mv	d N	С	SE	N	0	SE	cv	D	P	N	c	SE	N	0	SE	CV :	D	P	N	c	SE	N	0	SE	C1	D	P
30196C/30196 1 31252C/31248 1 31252C/31252 1 99826C/33141 1	. 6	0.00 0.00 0.00	0.00 0.00 0.00	5 6	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00		0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Means Fisher's Stouffer's	Power Power	0.00	0.00	Power-			P-val		0.698	Power Power	0.00		Powe	0.00 r-50% r-50%				0.698 0.500	Power Power	0.00		Powe	0.00 =-50% =-50%		P-va		0.698 0.500
30196C/30196 2 31252C/31248 2 31252C/31252 2 99826C/33141 2	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6 6	0.50 0.00 0.00 0.00	0.50 0.00 0.00) -) -	0	0.374 1.000 1.000 1.000	6 6 6	12.50 0.00 0.00 0.00	12.50 0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	0.363 1.000 1.000	6 6 6	0.00 0.00 00.0	0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00		0	1.000 1.000 1.000 1.000
Habitat Means Fisher's Stouffer's	Power Power	0.00	0.00	Power-			P-val		0.483 0.237	Power Power	3.13		Powe	0.00 r-50% r-50%		P-valu		0.477	Power Power	0.00			0.00 r-50% r-50%		P-va		0.698 0.500
30196C/30196 3 31252C/31248 3 31252C/31252 3 99826C/33141 3	6 6	11.25 0.00 0.00 0.00	7.67 0.00 0.00	5 6	6.50 0.00 0.00 0.00	2.83 0.00 0.00) -	0	0.802 1.000 1.000	4 6 6 1	13.12 0.00 0.00 0.00	13.12 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00 0.00	_	Ó	0.391 1.000 1.000	4 6 6 1	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00		0	1.000 1.000 1.000
Habitat Means Fisher's Stouffer's	Power Power	2.83 0.019 0.008	2.57	Power-			P-va		0.596 0.420	Power Power	3.28		Powe	0.00 er-50% er-50%		P-valu		0.419 0.244	Power Power	0.00		Powe	0.00 r-50% r-50%		P-va		0.655 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. Algal Percent Cover. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Overstory removed June 1990. (Continued.)

			Tokiđa	dendro	n kurile:	nsis (A)			,	torphologi	.cal G	roup	: Coars	. Filamen	tous R	bes	8			Crypt	osiph	onia woo	Bii (A)			
Site Pair Mv	d N	С	SE	N	0	SE	CV	D	P	N	c	SE	N	٥	SE	CV :	D	P	Ŋ	С	SE	N	٥	SK	C	V D	P
30196C/30196 1 31252C/31248 1 31252C/31252 1 99826C/33141 1	. 6 . 6	0.00 0.00 0.00	0.00	5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	_	0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5	0.00 1.00 0.00 0.00	0.00 1.00 0.00 0.00	- ;	0	1.000 0.374 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00			1,000 1.000 1.000 1.000
Habitat Means		0.00	0.00		0.00	0.00		Q			0.00	0.00		0.25	0.25		-			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Power			Power Power			P-val P-val		0.698 0.500	Power Power				r-50% r-50%		e-valu e-valu		0.483	Power Power			Power				alue alue	0.500
30196C/30196 2 31252C/31248 2 31252C/31252 2 99826C/33141 2	6	0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 6 6	0.83 1.67 1.67 0.00	0.83 1.24 1.24 0.00	6	6.50 0.00 2.50 2.50	5.34 0.00 2.50 1.77	- - -	+	0.296 0.194 0.939 0.204	6 6 6	0.00 0.00 0.00	0.00	6 6	0.00 0.00 0.00	0.00 0.00 0.00		- 0 - 0 - 0	
Habitat Means		0.00	0.00		0.00	0.00		0			1.05	0.80		2.88	2.40		-			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Power Power			Power Power			P-val P- va l		0.698 0.500	Power Power	0.041			r~50% r-50%		P-valu P-valu		0.258 0.361	Power Power			Power Power	· 50% · -50%		P-V	alue	0.500
30196C/30196 3 31252C/31248 3 31252C/31252 3 99826C/33141 3	6 6	0.00 0.00 0.00 0.00	0.00	5 6	1.00 0.00 0.00 0.00	1.00 0.00 0.00 0.00	-		0.374 1.000 1.000	4 6 6 1	0.00 9.58 9.58 0.00	0.00 8.18 8.18	5	1.50 2.50 0.42 0.00	2.50 0.42 0.00			0.374 0.523 0.303	4 6 6 1	0.00 0.00 0.00 0.00	0.00	5 6 3	1.00 0.00 0.00 0.00	0.00		- 0 - 0	
Habitat Means		0.00	0.00		0.25	0.25		-			4.80	5.47		1.10	1.10		4			0.00	0.00		0.25	0.25		-	
Fisher's Stouffer's	Powe:			Power					0.409 0.236	Power Power	0.013			er-50% er-50%		Prvalu Prvalu		0.333 0.520	Power Power				r-50% r-50%				0,409

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

				Endo	ocladi	a muricat	a (P)						Gloi	opelt	tis furca	ta (A)					N	eorhod	omela	/Rhodomel	a (P) ((a)		
Site Pair	Mvd		С	SE	N	0	SE	CV	D	P	N	c	SE	N	0	SE	CΛ	, D	P	N	c	SE	н	0	SE	C١	7 D	P
30196C/3019 31252C/3124 31252C/3125 99826C/3314	8 1 2 1	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 5	0.00 1.00 0.00 0.00	0.00 1.00 0.00) -	- 0	1.000 0.374 1.000 1.000
Mabitat Mea	ns		0.00	0.00		0.00 r-50%	0.00		0	0.698	Power	0.00	0.00	Powe	0.00 r-50%	0.00		olue	0.698	Power	0.00	0.00		0.25 -50%		P-ve		0.483
Fisher's Stouffer'	s	Power Power				r-50%		P-val		0.500	Power				r-50%		P-va	lue	0.500	Power				±-50%				0.339
30196C/3019 31252C/3124 31252C/3125 99826C/3314	8 2	6 6	0.83 0.00 0.00 0.00	0.83 0.00 0.00	6 6	0.50 0.00 0.00 0.00	0.50 0.00 0.00	-	0	0.911 1.000 1.000	6 6 6	0.00 1.25 1.25 0.00	0.00 1.25 1.25 0.00	6 6	0.50 0.00 0.00 0.63	0.50 0.00 0.00 0.63	-	- +	0.374 0.363 0.363 0.391	6 6 6	0.00 0.42 0.42 0.00	0.00 0.42 0.42 0.00	6 4	5.00 0.00 2.50 1.88	5.00 0.00 2.50 1.88	3 -		0.374 0.363 0.589 0.391
Habitat Mea	រោទ		0.20	0.20		0.13	0.13		+			0.65	0.65		0.28	0.28		•			0.20	0.20		2.35	2.35	5	-	
Fisher's Stouffer'	s	Power				r-50% r-50%				0.677	Power Power				er-50% er-50%				0.466	Power Power				r-50% r-50%				0.305 0.292
30196C/3019 31252C/3124 31252C/3125 99826C/3314	6 3 18 3 52 3	4 6 6	0.00 0.00 0.00	0.00	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	4 6 6 1	0.00 2.08 2.08 0.00	0.00 1.36 1.36	5	0.00 2.50 0.00 0.00	0.00 2.50 0.00 0.00	-	- O	1.000 0.899 0.178	4 6 6 1	0.00 6.25 6.25 0.00	0.00 6.25 6.25	5 6	0.00 0.00 0.42 0.00	0.00 0.00 0.42 0.00	2 -	- +	1.000 0.363 0.490
Mabitat Mea	ıns		0.00	0.00		0.00	0.00	l	0			1.05	0.93		0.63	0.63		+			3.15	4.20		0.10	0.10	D	+	
Fisher's Stouffer'	'a	Power Power				r-50% r-50%		P-val P-val		0.655 0.500	Power Power	0.106 0.132			er-50% er-50%		P-va P-va	lue lue	0.284 0.336	Power Power				r-50% r-50%				0.268 0.251

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

Table C-5.412. Algal Percent Cover. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Overstory removed June 1990. (Continued.)

			Odon	thalia	floccos	a (P)						Ptilot	a/Ne	eoptilota	(P) (b)					Mor	pholog	ical G	roup: 8	accate	Reds	,	
Site Pair Mvd	N	С	SE	N	٥	SE	CA	D	P	N	С	SE	N	0	SE	CA D)	P	N	С	SE	N	0	SE	CV	7 D	P
30196C/30196 1 31252C/31248 1 31252C/31252 1 99826C/33141 1	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0 0	1,000 1,000 1,000 1,000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0		1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	- 0	1.000 1.000 1.000 1.000
Habitat Means		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	0	•			0.00	0.00		0.00	0.00		0	
	Power Power			Power Power			P-val P-val		0.698 0.500	Power				er-50% er-50%		·value ·value		0.698 0.500	Power Power			Power Power					0.698 0.500
30196C/30196 2 31252C/31248 2 31252C/31252 2 99826C/33141 2	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.50 0.00 0.00 0.00	0.50 0.00 0.00 0.00	-	0	0.374 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0		1.000 1.000 1.000 1.000	6 6 6	2.50 0.00 0.00 0.00	2.50 0.00 0.00 0.00	6	0.50 0.00 0.00 0.00	0.50 0.00 0.00 0.00		- 0	0.671 1.000 1.000 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		+	
	Power Power			Power Power			P-val P-val		0.483 0.237	Power Power				er-50% er-50%		-value -value		0.698 0.500	Power Power				-50% -50%				0.609 0.366
30196C/30196 3 31252C/31248 3 31252C/31252 3 99826C/33141 3		0.00 1.25 1.25 0.00	0.00 1.25 1.25	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-		1.000 0.363 0.363	4 6 6 1	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 6	0.50 0.00 0.00 0.00	0.50 0.00 0.00 0.00	- c	>	0.374 1.000 1.000	4 6 6 1	0.00 0.00 0.00 0.00	0.00	5	1.00 0.00 0.00 0.00	0.61 0.00 0.00 0.00		- 0	0.178 1.000 1.000
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		-	
	Power Power			Power Power			P-val P-val		0.223 0.226	Power Power				er-50% er-50%		-value -value		0.409 0.236	Power Power	0.000		Power	-50% -50%				0.268 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 babitat means is different than direction of overall tests. 2 Only one site pair.

Table C-5.412. Fage 5. December 15, 1994

			Halosa	ccion	glandifo	rme (A)				Morpholog	gical	Group	: Fine F	ilament	ous Red	1s			_	Calli	thamni	on pikea	num (A)			
Site Pair Mv	rd N	c	SE	N	0	SE	¢ν	Þ	P	N	c	SE	N	0	SE	CA D)	P	N	С	SE	N	0	SE	ÇV	а	P
30196C/30196 1 31252C/31248 1 31252C/31252 1 99826C/33141 1	. 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0	10 - 10 -	0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0	1	.000 .000 .000	6 6 6	1.00 1.00 1.00	0.00 0.00 0.00	5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Means		0.00	0.00		0.00	0.0	10	0			0.00	0.00		0.00	0.00	0)			1.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Power Power				r-50% r-50%				0.698 0.500	Power Power			Power Power			e-value -value		.698 .500	Power Power				-50%				0.698 0.500
30196C/30196 2 31252C/31248 2 31252C/31252 2 99826C/33141 2	6	2.50 0.00 0.00 0.00	2.50 0.00 0.00 0.00	6 6	0.50 0.00 0.00 0.00	0.0 0.0 0.0	00 - 00 -	0	0.671 1.000 1.000 1.000	6 6 6	0.83 0.00 0.00 0.00	0.83 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- + - 0 - 0	1	.000	6 6 6	1.00 1.00 1.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000
Habitat Means		0.63	0.63		0.13	0,1	L3	+			0.20	0.20		0.00	0.00	+				1.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Power Power				r-50% r-50%				0.609 0.366	Power Power			Power Power			e-value e-value		.477).232	Power Power				-50% -50%				0.698 0.500
30196C/30196 3 31252C/31248 3 31252C/31252 3 99826C/33141 3	6 3 6	0.00 0.00 0.00	0.00 0.00 0.00	5	1.00 0.00 0.00 0.00	0.6 0.0 0.0	00 -	0	0.178 1.000 1.000	4 6 6 1	0.00 1.67 1.67 2,50	0.00 1.67 1.67	5	0.00 0.50 0.42 0.00	0.00 0.50 0.42 0.00	- 0 - + - +	. 0	.000 0.747 0.659	4 6 6 1	.00 .00 .00	0.00	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000
Habitat Means		0.00	0.00		0.25	0.1	L5	-			1.48	1.13		0.23	0.23	+				1.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Power Power	0.000			r-50% r-50%		P-va P-va		0.268 0.138	Power Power			Power Power			e-value -value		0.473 0.379	Power Power				-50% -50%				0.655 0.500

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

Table C-5.412, Algal Percent Cover, Rhodophyta, Kodiak/Alaska Peninsula, Sheltered Rocky, May 1991, Overstory removed June 1990, (Continued.)

		Pol	ysipho	nia/P	terosipho	nia (A)	(a)				Morp	hologí	cal (Group: C	rustose	Rede					Crusto	ae Co	ralline A	lgae (P	²)		
Site Pair M	tvd N	c	SE	N	٥	SE	CV	D	P	N	С	SE	N	0	SE	ÇV	ā	P	N	c	SE	N	0	SE		ם עי	P
30196C/30196 31252C/31248 31252C/31252 99826C/33141	1 6 1 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0 0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00)	- 0	1.000 1.000 1.000 1.000
Habitat Means	3	0.00	0.00		0.00	0.00		O			0.00	0.00		0.00	0.00		Q			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer's	Power Power				r-50% r-50%		P-val P-val		0.698 0.500	Power Power				er-50% er-50%		P-val P-val		0.698 0.500	Power Power	~			r-50% r-50%			zalue zalue	0.698
30196C/30196 31252C/31248 31252C/31252 99826C/33141	2 6 2 6	0.83 0.00 0.00 0.00	0.83 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	0.363 1.000 1.000 1.000	6 6 6	0.42 0.00 0.00 0.00	0.42 0.00 0.00 0.00	6	1.50 0.00 0.00 0.00	1.50 0.00 0.00 0.00	- - -	0	0.629 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00)	- 0 - 0 - 0	1.000 1.000 1.000 1.000
Habitat Means	3	0.20	0.20		0.00	0.00		+			0.10	0.10		0.38	0.38		-			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer's	Power Power				r-50% r-50%		P-val P-val		0.477 0.232	Power Power				r-30% r-50%		P-val		0.594 0.349	Power Power	~			r-50% r-50%				0.698 0.500
30196C/30196 31252C/31248 31252C/31252 99826C/33141	3 6 3 6	0.00 1.67 1.67 2.50	0.00 1.67 1.67	5	0.00 0.50 0.42 0.00	0.00 0.50 0.42 0.00	-	O + +	1.000 0.747 0.659	4 6 6	6.25 0.00 0.00 0.00	6.25 0.00 0.00	5 6	6.50 0.00 0.00 0.00	3.84 0.00 0.00 0.00	-	0000	0.719 1.000 1.000	4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5	1.00 0.00 0.00 0.00	1.00 0.00 0.00 0.00)	- • - 0 - 0 - 0	0.374 1.000 1.000
Habitat Means	.	1.48	1.13		0.23	0.23		+			1.57	2.10		1.63	0.95		-			0.00	0.00		0.25	0.25	3	-	
Fisher's Stouffer's	Power Power				r-50% r-50%		P-val P-val		0.473 0.379	Power Power	0.003 0.001			er-50% er-50%				0.567 0.386	Power Power				r-50% r-50%				0.409 0.236

(a) Genera not separated.

At least one eite pair p value < 0,000 in opposite direction of overall tests.</p>
y Direction of difference between babitat means is different than direction of overall tests.
only one safe pair.

Petrocelis (P)

Table C 5.412. Page 7. Detember 15, 1994

				10010	COLTR (t	<u>, </u>																				
Site Pair My	d N	С	SE	N	0	SE	CA D	P	n	С	SE	N	0	SE	ÇV	D	P	N	С	SE	N	0	SE	CV I	P	
30196C/30196 1 31252C/31248 1 31252C/31252 1 99826C/33141 1	. 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- 0 - 0	1.000 1.000 1.000 1.000																		
Habitat Means		0.00	0.00		0.00	0.00	Q																			
Fisher's Stouffer's	Power Power			Power Power			P-value P-value		Power Power			Power- Power-			P-valı P-valı			Power Power			Power Power			P-value P-value		
30196C/30196 2 31252C/31248 2 31252C/31252 2 99826C/33141 2	6 6	0.42 0.00 0.00 0.00	0.42 0.00 0.00 0.00	6 6	1.50 0.00 0.00 0.00	1.50 0.00 0.00 0.00	- o	0.629 1.000 1.000 1.000																		
Habitat Means		0.10	0.10		0.38	0.38	-																			
Fisher's Stouffer's	Power Power			Power Power			P-value P-value		Power Power			Power- Power-			P-valu P-valu			Power Power			Power Power			P-value P-value		
30196C/30196 3 31252C/31248 3 31252C/31252 3 99826C/33141 3	6	6.25 0.00 0.00 0.00	6.25 0.00 0.00	5 6	5.50 0.00 0.00 0.00	3.00 0.00 0.00 0.00	- o	0.771 1.000 1.000																		
Habitat Means		1.57	2.10		1.38	0.75																				
Fisher's Stouffer's	Power Power	0.000		Power Power			P-value P-value		Power Power			Power- Power-			P-valu P-valu			Power Power			Power Power			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 babitat means is different than direction of overall tests. c Only one site pair.

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; CV = coefficient of variation;

SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P probability value; dashes insufficient data.

				Act	iniidae								Bals	nomorph	a							Lot	ttiidae				
Site Pair Mv	d N	c	SE	N	0	SE	cv	D	P	N	С	SE	N	0	SE	¢v	D	P	N	С	SE	N	0	SE	C/	Ø D	P
30196C/30196 1 31252C/31248 1 31252C/31252 1 99826C/33141 1	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 6 6	17.92 35.42 35.42 32.08	7.23 14.40 14.40 10.40	6 5 6 5	0.00 11.50 70.42 8.50	0.00 5.16 10.15 3.84	-	+	0.016 0.179 0.076 0.152	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00		- 0	1.000 1.000 1.000 1.000
Habitat Means		0.00	0.00		0.00	0.00		0			30.20	11.60		22.60	4.80		-			0.00	0.00		0.00	0.00		٥	
Fisher's Stouffer's	Power			Power					0.698 0.500	Power Power				r-50% r-50%		P-valu P-valu		0.012× 0.021	Power Power			Power					0.698
30196C/30196 2 31252C/31248 2 31252C/31252 2 99826C/33141 2	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 6 6	0.42 28.75 28.75 33.33	0.42 8.18 8.18 10.48	6 6	0.50 34.58 69.17 5.00	0.50 8.65 5.19 5.00	-	- - +	0.900 0.609 0.003 0.067	6 6 6	0.00 0.00 0.00 0.42	0.00 0.00 0.00 0.42	6 4	0.00	0.00 0.00 0.00		- 0	1.000 1.000 1.000 0.363
Habitat Means		0.00	0.00		0.00	0.00		0			22.83	6.83		27.32	4.85		-			0.10	0.10		0.00	0.00		-	
Fisher's Stouffer's	Power Power			Power			-va		0.698 0.500	2ower Power	0.082			r-50% r-50%		P-valı P-valı		0.029× 0.102	Power Power			Power					0.477 0.474
30196C/30196 3 31252C/31248 3 31252C/31252 3 99826C/33141 3	6	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000	4 6 6 1	0.00 14.58 14.58 0.00	0.00 8.07 8.07	5 6	0.50 42.50 41.67 22.50	0.50 5.48 12.56 22.50	-	-	0.374 0.023 0.118	4 6 6 1	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 6 3	0.00 0.00 0.00 0.83	0.00 0.00 0.00		- 0	1.000 1.000 1.000
Habitat Means		0.00	0.00		0.00	0.00		O			7.30	5.40		26.80	10.28	1	-			0.00	0.00		0.20	0.20		Ó	
Fisher's	Power Power				r-50% r-50%		P-val P-val		0.655 0.500	Power Power				r-50% r-50%		P-valu P-valu		0.006	Power Power	==		Power Power					0.655 v 0.500

x At least one site pair p-value < 0.100 in opposite direction of overill 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								Littor	rinida								Po	rifera				
Site Pair M	vd N	С	SE	N O	SE	CV	Đ	P	N	С	SE	Ŋ	0	SE	CV	ם	P	N	С	SE	N	٥	SE	(TV D	P
30196C/30196 31252C/31248 31252C/31252 99826C/33141	1 6 1 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 0.0	0.0	0 -	0	1.000 1.000 1.000 1.000	б 6 6 6	0.00 0.42 0.42 1.25	0.00 0.42 0.42 0.56	5 6 5	0.42 0.00 0.83 0.00	0.42 0.00 0.83 0.00	-	+	0.363 0.363 0.814 0.076	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 5	0.00 0.00 0.00 0.00	0.00)))	- 0 - 0	1.000 1.000 1.000 1.000
Habitat Means Fisher's Stouffer's	Power		0.00	0.0 Power-50% Power-50%		P-val		0.698 0.500	Power Power	0.53 0.173 0.101	0.35	Power-5			P-valu P-valu		0.180 0.603	Power Power	0.00	0.00	Power	0.00 r-50% r-50%		p.,		0.698
30196C/30196 31252C/31248 31252C/31252 99826C/33141	2 6 2 6	0.00 0.42 0.42 12.50	0.00 0.42 0.42 5.88	6 0.8	0.5	3 – 0 –	-	1.000 0.549 0.363 0.125	6 6 6	0.83 2.50 2.50 0.42	0.53 1.71 1.71 0.42	6 6	0.00 0.42 3.75 0.00	0.00 0.42 1.41 0.00	_	+	0.175 0.340 0.302 0.363	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00)	- 0 - 0 - 0	1.000 1.000 1.000 1.000
Habitat Means Fisher's Stouffer's	Power Power		1.68	0.3 Power-50% Power-50%	0-045	P-val		0.203 0.438	Power Power	1.55 0.218 0.276	1.08	Power-		0.45 0.676 0.801				Power Power	0.00	0.00	Power	0.00 r-50% r-50%		p	o value value	
0196C/30196 31252C/31248 31252C/31252 99826C/33141	3 6 3 6	0.00 0.00 0.00 30.00	0.00	5 0.5 6 0.0	0.5	0 -	-	1,000 0.374 1.000	4 6 6 1	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 6	0.00 0.50 0.83 0.00	0.00 0.50 0.83 0.00	-	_	1.000 0.374 0.363	4 6 6 1	0.00 0.42 0.42 0.00	0.00 0.42 0.42	5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	0	- 0 - 0	1.000 0.363 0.363
Habitat Means Fisher's Scouffer's			0.00	0.1 Power-50% Power-50%		P-val		0.409 y 0.339	Power Power	0.00	0.00	Power-S			P-valu P-valu			Power Power	0.20	0.27	Powe:	0.00 r-50% r-50%		P-	value value	0.223 0.226

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

Table C-5.413. Algal Percent Cover. Invertebrates. Rodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Overstory removed June 1990. (Continued.)

				C	nideria								Мо	llusca							
ater no. M			00	ы	n	G R	CV			N	r :	92	N	0	SE	CV I	D	P			
30196C/30196 31252C/31248 31252C/31252 99826C/33141	1 6 1 6	0.00 0.00 0.00	0.00 0.00 0.00	5 6	0.00 0.00 0.00	0.00	-	0	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	5 6	0.00 0.00 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 Stouffer's	Power Power				r-50% r-50%				0.698 0.500	Power Power			Power Power			P-valu P-valu		0.698	Power	 Power-50% Power-50%	
30196C/30196 31252C/31248 31252C/31252 99826C/33141	2 6 2 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6	0.00 0.00 0.00	0.00	, -	0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000			
Habitat Means	5	0.00	0.00		0.00	0.00)	0			0.00	0.00		0.00	0.00		0			- 500	
Fisher's Stouffer's	Power Power				r-50% r-50%				0.698 0.500	Power Power			Power	-50% -50%				0.698 0.500	Power Power	 Power-50% Power-50%	
30196C/30196 31252C/31248 31252C/31252 99826C/33141	3 6 3 6	0.00 0.00 0.00 0.00	0.00	5	0.00 0.00 0.00	0.0) –	0	1.000 1.000 1.000	4 6 6 1	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.42 0.00	0.00 0.00 0.42 0.00	- - -	0	1.000 1.000 0.363			
Habitat Means	5	0.00	0.00	1	0.00	0.0)	0			0.00	0.00		0.10	0.10		-			D E09	P-value
Fisher's Stouffer's	Power Power				r-50% r-50%				0.655 0.500	Power Power			Power Power	-50% -50%				0.403	Power 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 habital means is different than direction of overall tests. z Only one site pair.

Table C-5.414. Algal Percent Cover. Substrates. Rodiak/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.

					Rock								Mud									Sand				
Site Pair Mv	d N	С	SE	N	0	SE	GA E	P	N	C	SE	N	٥	SE	CV 3	ם	P	N	C	SE	N	0	SE	c	ם עב	P
30196C/30196 1 31252C/31248 1 31252C/31252 1 99826C/33141 1	6 6	50.00 56.67 56.67 64.17	15.88 13.21 13.21 12.39	5 6	65.00 81.00 28.75 90.50	14.73 6.92 10.34 3.57		0.169 0.129	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6	0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 6	0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.83	0.00 0.00 0.00 0.83	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00))	- 0	1.000 1.000 1.000 0.363
Habitat Means		56.90	13.68		66.33	8.88	-			0.00	0.00		0.00	0.00		0			0.20	0.20		0.00	0.00	j	+	
Fisher's Stouffer's	Power Power			Power Power		0.626 0.708		0.106 0.196	Power Power				r-50% r-50%		P-value P-value		0.698 0.500	Power Power				r-50% r-50%				0.477 0.474
30196C/30196 2 31252C/31248 2 31252C/31252 2 99826C/33141 2	6 6	38.33 59.17 59.17 27.50	18.09 7.43 7.43 9.51	6 6	36.50 62.50 24.58 88.75	15.36 9.77 5.22 7.18	 - 1	0.004	6 6 6	0.00 0.00 0.00 2.92	0.00 0.00 0.00 1.87	6 6	0.00 0.00 0.00	0.00 0.00 0.00	- 6	0	1.000 1.000 1.000 0.176	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00)	- o	1.000 1.000 1.000 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	J	0	
Fisher's Stouffer's	Power			Power Power			P-value P-value	0.042x 0.751	Power Power	0.016 0.001			r-50% r-50%		P-value P-value		0.341	Power Power				r-50% r-50%				0.698 0.500
30196C/30196 3 31252C/31248 3 31252C/31252 3 99826C/33141 3	6	28.75 73.75 73.75 25.00	18.21 9.74 9.74	5 6	33.50 51.50 50.42 42.50	9.17 2.57 12.56 29.83	- +	0.081	6 6 -	0.00 0.00 0.00 37.50	0.00	5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- « - «	o	1.000 1.000 1.000	4 6 6 1	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00)		
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	J	0	
Fisher's Stouffer's	Power			Power Power				0.048	Power Power				r-50% r-50%		?-value ?-value		0.655 y 0.500	Power Power			Powe:					0.655 0.500

x. At least one sice pair p-value < 0.100 in appoint direction of overall tests. y Direction of difference between habitat means is different than direction of overall tests. 2 only one site pair.

Table C 5.414. Page 1. December 15. 1994

				Shel.	l Fragment							Fi	1amer	ntous Dia	t ome						Zos	stera	/Phyllosp	adix			
Site Pair Mv	'd N	С	SE	N	0	SE	C/	D	P	N	С	8E	N	0	SE	CA	D	P		-			-		CV	-	-
30196C/30196 1 31252C/31248 1 31252C/31252 1 99826C/33141 1	6 6	0.00 0.00 0.00 0.83	0.00 0.00 0.00 0.83	5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00) -	0	1.000 1.000 1.000 0.363	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	_	0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	_	0 1	.000 .000 .000
Habitat Means		0.20	0.20		0.00	0.0)	+			0.00	0.00		0.00	0.00		٥			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Power Power				er-50% er-50%				0.477 0.474	Power Power				r-50% r-50%		P-val P-val		0.698 0.500	Power Power	~			r-50% r-50%		P-valu		
30196C/30196 2 31252C/31248 2 31252C/31252 2 99826C/33141 2	6 6	0.00 0.00 0.00 1.67	0.00 0.00 0.00 1.67	6	8.50 0.00 0.00 0.00	8.50 0.00 0.00) -) -	0	0.374 1.000 1.000 0.363	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 0.00 0.00	0.00 0.00 0.00	_	0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	o 1 o 1	,000 ,000 ,000 ,000
Habitat Mcars		0.42	0.42		2,13	2.1	3	+			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Power Power				er-50% er-50%				0.581 y 0.742	Power Power				x-50% x-50%		P-val P-val		0.698 0.500	Power Power	~		Powe:	r-50% r-50%		P-valu P-valu		
30196C/30196 3 31252C/31248 3 31252C/31252 3 99826C/33141 3	6 6	0.00 0.00 0.00 5.00	0.00	5 6	0.00 0.00 0.00	0.00 0.00 0.00) -) -		1.000 1.000 1.000	4 6 6 1	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5 6	2.50 0.00 0.00 0.00	2.50 0.00 0.00 0.00	-	0	0.374 1.000 1.000	4 6 6 1	0.00 0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00 0.00	0.00 00.0 00.0	_	0 1	,000 ,000 ,000
Habitat Means		1.25	0.00		0.00	0.00)	0			0.00	0.00		0.63	0.63		-			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Power Power				er-50% er-50%				0.655 y 0.500	Power Power	- 			r-50% r-50%				0.409 0.236	Power Power	~		Powe:			P-valu P-valu		

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

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 Mu	a						Total	Substr	ate										
Site Dair More	4 N	۲	ĢE	N	n	SE	מ עיי	Р	N	c	SE	N	0	SB	CV D	P	Ŋ	c	SE	N	0	SE	CA D	P
31252C/31248 1 31252C/31252 1 31252C/31252 1 99826C/33141 1	6 6	0.00 0.00 0.00 1.67	0.00 0.00 1.67	5 6	0.00	0.00 0.00 0.00	- o	1.000 1.000 0.363	6 6 6	56.67 56.67 65.83	13.21 13.21 11.27	5 6	81.00 28.75 90.50	6.92 10.34 3.57	- +	0.16 0.12 0.17)							
Habitat Means		0.42	0.42		0.00	0.00				57.30	13.40		66.33	8.88	-									
Fisher's Stouffer's	Power Power			Power Power				0.477	Power Power				r-50% r-50%		P-value P-value					Power			P-value P-value	
30196C/30196 2 31252C/31248 2 31252C/31252 2 99826C/33141 2	6 6	0.00 0.00 0.00 4.58	0.00 0.00 0.00 3.06	6 6	8.50 0.00 0.00 0.00	8.50 0.00 0.00 0.00	- 0	0.374 1.000 1.000 0.180	6 6 6	38.33 59.17 59.17 32.08	18.09 7.43 7.43 7.37	6 6	45.00 62.50 24.58 88.75	13.99 9.77 5.22 7.18	- +	0.75								
Habitat Means		1.15	0.78		2.13	2.13				47.20	10.08		55.23	9.05	-									
Fisher's Stouffer's	Power Power	0.001		Power Power				0.434 y 0.732	Power Power				r-50% r-50%		P-value P-value					Power			P-value P-value	
30196C/30196 3 31252C/31248 3 31252C/31252 3 99826C/33141 3	6 6	0.00 0.00 0.00 42.50	0.00	5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- c		4 6 6 1	28.75 73.75 73.75 67.50	18.21 9.74 9.74	5	33.50 51.50 50.42 42.50	9.17 2.57 12.56 29.83			7							
Habitat Means		10.63	0.00		0.00	0.00	C			60.98	12.53		44.48	13.55										
Fisher's Stouffer's	Power Power			Power Power				0.655	Power Power				r-50% r-50%		P-value P-value					Power	c-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-5.415. Algal Percent Cover. Totals and Seasonal Groups. Rodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Overstory removed August 1990.

Results of statistical differences between means of control and colled site pairs. MVD - meter vertical drop; N = sample size; C = control mean; O = colled mean; CV coefficient of variation; SE = standard error; D = direction of difference; + · control > colled; - = control < colled; colled; P = probability value; dashes insufficient data.

			Algal	Dive	sity I	ndex (a)					λlga	1 Ta	xa Richn	ess (b)							To	tal Alga	e			
Site Pair Mvd	n n	c	SE	N	0	SE	CV I	P	N	С	SE	N	٥	SE	CA I	0	P	N	С	SE	N	0	SE	c	v D	P
30196C/30196 1 31252C/31248 1 31252C/31252 1 99826C/33141 1	6 6	0.09 0.00 0.00 0.00	0.06 0.00 0.00 0.00	6	0.06 0.00 0.00 0.07	0.06 0.00 0.00 0.07	- 0	1.000	6 6 6	1.00 0.33 0.33 0.17	0.68 0.21 0.21 0.17	6	1.00 0.33 0.00 1.00	0.45 0.21 0.00 0.41		÷ :	1.000 1.000 0.175 0.062	6 6 6	17.08 4.17 4.17 1.67	15.17 3.69 3.69 1.67	6	25.83 8.75 0.00 21.88	15.45 7.35 0.00 10.58)	 - +	0.640 0.691 0.239 0.042
Habitat Means		0.02	0.01		0.03	0.03				0.46	0.32		0.58	0.27	-	-			6.80	6.08	3	14.13	8.38	3	-	
Fisher's Stouffer's	Power Power	0.004		Power Power				0.548	Power Power	0,219 0.065			er-50% er-50%		P-value P-value		0.272 0.636	Power Power				er-50% er-50%				0.135 0.386
30196C/30196 2 31252C/31248 2 31252C/31252 2 99826C/33141 2	5 5	0.10 0.06 0.06 0.10	0.10 0.06 0.06 0.06	6 6	0.27 0.00 0.05 0.04	0.12 0.00 0.05 0.04	- :	0.374	4 5 5 6	1.25 0.60 0.60 1,17	0.63 0.40 0.40 0.31	6 6	3.00 0.33 0.33 1.33	1.14 0.21 0.33 0.33		-	0.253 0.550 0.618 0.749	4 5 5 6	18.75 27.00 27.00 18.75	9,92 19.06 19.06 8.77	6	66.00 12.08 0.83 21.67	13.98 9.05 0.83 5.46	; }		0.038 0.514 0.251 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 Stouffer's	Power Power	0.030		Power Power				0.450	Power Power	0.134 0.089			er-50% er-50%		P-value P-value		0.486 0.313	Power Power				er-50% er-50%				0.191 0.159
30196C/30196 3 31252C/31248 3 31252C/31252 3 99826C/33141 3	5	0.35 0.00 0.00 0.13	0.12 0.00 0.00 0.10	6 6	0.38 0.07 0.06 0.27	0.16 0.07 0.05 0.27		0.363	4 5 4	3.00 0.20 0.20 1.75	0.71 0.20 0.20 0.48	6 6	4.25 0.83 1.00 3.00	1.49 0.48 0.52 2.00		-	0.478 0.285 0.214 0.428	4 5 5 4	43.13 1.50 1.50 53.13	19,80 1.50 1.50 15.50	6	70.00 16.67 20.83 56.25	17.53 14.25 14.98 41.25	3	 	0.327 0.329 0.252 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	3	-	
Fisher's Stouffer's	Power Power	0.201 0.282		Power Power		0.066 0.079	P-value P-value		Power Power				er-50% er-50%		P-value P-value		0.074 0.058	Power Power				er-50% cr-50%				0.108

(e) 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 overal) tests.</p>
y Direction of difference between Labitat means is different than direction of overall test only one site pair.

Table C 5.415. Fage 1. December 15, 1994

			To	tal I	nverteb	rates								Rock								Pere	nnials (P)			
Site Pair 🗖	א נח	c	E	N	0	SE	CA	D	P	N	C	SE	N	0	SE	ÇV	ם	Þ	N	С	SE	N	0	SE	CA	D	P
30196C/30196 1 31252C/31248 1 31252C/31252 1 99826C/33141 1	L 6	35.42 16.67 16.67 6.25	11.52 9.12 9.12 2.39	6 6	4.58 22.08 62.08 10.00	3.19 7.08 11.39 4.45	3 -		0.032 0.631 0.009 0.438	6 6 6	47.50 79.17 79.17 90.00	12.94 10.03 10.03 6.06	6 6	69.58 68.75 37.92 68.12	14.78 8.08 11.39 9.86	3 - 9 -	+	0.240 0.447 0.019 0.072	6 6 6	17.08 4.17 4.17 0.00	15.17 3.69 3.69 0.00	6	25.83 8.75 0.00 21.88	15.45 7.35 0.00 10.58		-	0.640 0.691 0.239 0.091
Habitat Means		11.78	8.02		24.70	6.55	i .	-			73.98	9.75		61.10	11.05	5	+			6.38	5.65		14.13	8.38		-	
Fisher's Stouffer's	Power Power				r-50% r-50%		P-val P-val		0.040× 0.697	Power Power				er-50% er-50%	0.990	P-va P-va		0.014 0.352	Power Power	0.059 0.042			er-50% er-50%				0.211 0.395
30196C/30196 2 31252C/31248 2 31252C/31252 2 99826C/33141 2	2 5 2 5	18.13 78.50 78.50 48.83	6.56 19.26 19.26 7.82	6 6	1.00 52.08 95.42 11.67	0.61 13.17 4.58 6.01	7 -	-	0.003 0.356 0.196 0.047	4 5 5 6	63.12 2.50 2.50 37.08	13.05 1.94 1.94 6.04	6	33.00 35.83 3.75 66.67	13.77 11.86 3.75 8.70	; -	-	0.162 0.008 0.902 0.031	4 5 5 6	18.75 27.00 27.00 18.75	9.92 19.06 19.06 8.77	6	52.50 12.08 0.83 20.83	13.99 9.05 0.83 4.64	-	+	0.091 0.514 0.251 0.636
Habitat Means		41.97	13.25		40.05	6.10)	+			26.30	5.73		34.83	9.55	5	-			22.90	14.23		21.55	7.13		-	
Fisher's Stouffer's	Power Power				r-50% r-50%				0.002 0.007	Power Power				er-50% er-50%		P-va P-va		0.007 0.379	Power Power	0.168			er-50% er-50%				0.316 y 0.248
30196C/30196 31252C/31248 31252C/31252 99826C/33141	5 3 5	0.00 91.50 91.50 23.13	0.00 1.94 1.94 11.24	6 6	0.63 75.83 63.75 7.50	0.63 14.36 13.58 7.50	5 - 3 -	+++++++++++++++++++++++++++++++++++++++	0.391 0.120 0.026 0.466	4 5 5 4	56.88 1.00 1.00 1.25	19.80 0.61 0.61 1.25	6 6	29.38 7.50 15.00 36.25	17.86 2.74 2.81 33.75	1 - L -	-	0.300 0.103 0.000 0.126	4 5 5 4	34.38 0.00 0.00 25.62	21.44 0.00 0.00 11.47	6 6	35.63 3.33 20.42 25.00	14.05 2.11 14.58 10.00	-	-	0.963 0.175 0.156 0.845
Habitat Means		54.53	3.75		36.93	9.03	3	4			15.05	5.58		22.05	14.30)	-			15.00	8.23		21.07	10.20	ł	-	
Fisher's Stouffer's	Power Power				r-50% r-50%				0.024 0.189	Power Power				er-50% er-50%		P-va P-va		0.000	Power Power	0.283			er-50% er-50%		P-val		0.129 0.123

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

Tabl C 5.415. Algal Percent Cover. Totals and Seasonal Groups. Rodiak/Alaska Feninsula. Sheltered Rocky. May 1991. Overstory removed August 1990. (Continued.)

						Ann	nuals (A)	•							Epher	nerals (?	Œ)											··· -
Št	Parr	Mv	d N	С	SE	N	0	SE	ÇV	D	P	N	c	\$e	N	0	SE	CV	Đ	P	N	С	SE	N	0	SE	CA D	P
31:	96C/30 52C/31 52C/31 26C/33	248 1 252 1	6 6	0.00 0.00 0.00 1.67	0.00 0.00 0.00 1.67	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 0.363	6 6	0.00 0.00 0.00	0.00 0.00 0.00	6 6	0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000								
Hal	itat M	eans		0.42	0.42		0.00	0.00		+			0.00	0.00		0.00	0.00		0									
	isher' touffe		Power Power				r-50% r-50%	I			0.477 0.474	Power Power				r-50% r-50%		P-va P-va		0.698 0.500	Power Power			Power Power			P-value P-value	
31. 31.	.96C/30 !52C/31 !52C/31 !26C/33	248 2 252 2	5 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6	13.50 0.00 0.00 0.83	7.81 0.00 0.00 0.83	-	0	0.108 1.000 1.000 0.423	4 5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000								
Ha	oitat M	eans		0.00	0.00		3.58	2.15		-			0.00	0.00		0.00	0.00		0									
	isher Stouffe		Power Power				r-50% r-50%	I			0.164 0.088	Power Power				er-50% er-50%				0.698 0.500	Power Power			Power Power			P-value P-value	
31 31	196C/30 252C/31 252C/31 326C/33	248 3 252 3	5 5	8.75 1.50 1.50 27.50	5.45 1.50 1.50 16.17	6	34.38 13.33 0.42 31.25	22.42 12.84 0.42 31.25	-	-	0.332 0.473 0.629 0.993	4 5 5 4	5.00 0.00 0.00 17.50	4.21 0.00 0.00 16.68	6 6	2.50 12.92 0.00 8.75	2.50 12.92 0.00 8.75	-	- 0	0.623 0.363 1.000 0.869								
На	oitat M	eans		9.83	6.18	3	19.85	16.72		-			5.62	5.22		6.05	6.05		+									
	isher Houffe		Power				r-50% r-50%				0.375 0.172	Power Power	0.001 0.000			er-50% er-50%	0.002			0.671 y 0.507	Power Power			Power Power	-50% -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 overal! tests.
z Only one site pair.

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 ciled site pairs. MVD = meter vertical drop; N - sample size; C = control mean; CV = coefficient of variation; SE = standard error; D = direction of difference; - = control > ciled; - = control = colled; D = probability value; dashes insufficient data.

			т	otal C	hloroph	yta					Morph	ologi	cal G	roup: B	laded Gr	eens					Blac	ded G	reens (A	B) (a)			
Site Pair 1	Mvd N	С	SE.	N	0	SE	CV	D	P		-	_		-	ব্য			-	N	¢	SE	N	0	SE	C	ev d	P
30196C/30196 31252C/31248 31252C/31252 99826C/33141	1 6 1 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6 6	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1,000 1.000 1,000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6 6 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00)	- 0 - 0	1.000
Habitat Means Fisher's Stouffer's	s Power		0.00	Power Power					0.698 0.500	Power Power	0.00	0.00	Power Power			P-valu P-valu		0.698	Power Power	0.00		Powe:	0.00 r-50% r-50%		P-1	o value value	0.698 0.500
30196C/30196 31252C/31248 31252C/31252 99826C/33141	2 4 2 5 2 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6 6	0.50 0.00 0.00 0.00	0.50 0.00 0.00 0.00	-	0	0.374 1.000 1.000	4 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	4 5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6 6 3	0.00 0.00 0.00	0.00 0.00 0.00))		1.000 1.000 1.000
Habitat Means	s Power			Power Power					0.483	Power Power	0.00	0.00	Power	0.00 c-50% c-50%		P-valu P-valu		0.698 0.500	Power Power	0.00		Powe.	0.00 r-50% r-50%		P-1		0.698 0.500
Stouffer's 30196C/30196 31252C/31248 31252C/31252 99826C/33141	3 4 3 5 3 5	5.00 0.00 0.00 17.50	4.21 0.00 0.00 16.68	4 6 6	4.37 7.92 0.00 8.75	4.37 7.92 0.00 8.75	-	- 0	0.798 0.363 1.000 0.869	4 5 5 4	0.63 0.00 0.00 17.50	0.63 0.00 0.00 16.68	6 6	2.50 7.92 0.00 8.75	2.50 7.92 0.00 8.75	-	-	0.666 0.363 1.000 0.869	4 5 5 4	0.63 0.00 0.00 17.50	0.63 0.00 0.00 16.68	6 6 2	2.50 7.92 0.00 8.75	2.50 7.92 0.00 8.75	2 0 5	 - 0	0.363
Habitat Mean Fisher's	ns Power	5.62		Power			P-val		0.726 0.582	Power Power	0.016 0.039	4.33	Power Power			P-valu P-valu		0.420 0.224	Power Power	0.015 0.03		Powe	4.80 r-50% r-50%		P-1		0.420 0.224

(a) Kormsannia, Monostroma, Ulva and Ulvaria. κ At least one site pair p value < 0.100 in opposite direction of 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

	,	Morphologi	ical G	roup:	Fine Fi	lamento	us Gr	een	8			AC:	rosi	phonia sp.	(A)					Ch	aetomo	pha/R	hizoclon	ium (A)	(a)	ı	
Site Pair Mv			SE	N	0	SE	cv	D	P	N	c	SE	N	0	SE	cv	D	P	N	C	SE	N	0	SE	C.	v D	P
30196C/30196 1 31252C/31248 1 31252C/31252 1 99826C/33141 1	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6 6	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6	0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) .	- 0	1.000 1.000 1.000 1.000
Habitat Means Fisher's Stouffer's	Power Power	0.00	0.00	Power Power			P-val: P-val:		0.698 0.500	Power Power	0.00	0.00		0.00 er-50% er-50%		-valu -valu		0.698 0.500	Power Power	0.00		Power Power	-50%		P-va P-va	alue	0.698 0.500
30196C/30196 2 31252C/31248 2 31252C/31252 2 99826C/33141 2	5 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6 6	0.50 0.00 0.00 0.00	0.50 0.00 0.00 0.00		0	0.374 1.000 1.000	4 5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6 6	0.50 0.00 0.00 0.00	0.50 0.00 0.00 0.00	-	0	0.374 1.000 1.000 1.000	4 5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6 6	0.00 0.00 0.00	0.00 0.00 0.00 0.00))	- 0	1.000 1.000 1.000 1.000
Habitat Means Fisher's Stouffer's	Power	0.00	0.00	Power Power			P-valı P-valı		0.483 0.237	Power Power	0.00	0.00		0.13 er-50% er-50%		e-valu e-valu		0.483 0.237	Power Power	0.00		Power	0.00 c-50% c-50%		P-v		0.698 0.500
30196C/30196 3 31252C/31248 3 31252C/31252 3 99826C/33141 3	4 5 5	4.37 0.00 0.00 0.00	4.37 0.00 0.00 0.00	4 6 6	1.88 0.00 0.00 0.00	1.88 0.00 0.00 0.00	-	0 0	0.774 1.000 1.000	4 5 5 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6 6	1.88 0.00 0.00 0.00	1.88 0.00 0.00 0.00	- - -	0	0.391 1.000 1.000 1.000	4 5 5 4	0.00 0.00 0.00 0.00	0.00	6 0 6 0 2	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0 0 0	- o	1.000 1.000 1.000 1.000
Habitat Means Fisher's Stouffor's	Power	1.10	1,10	Power Power			P-val		0.641 0.409	Power Power	0.00	0.00	Pow	0.48 er-50% er-50%		P-valu		0.492	Power Power	0.00		Power	0.00 r-50% r-50%		5-v		0.698 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-5.416. Algal Percent Cover. Chlorophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Overstory removed August 1990. (Continued.)

				ladoph	ora sp.	(AE)						τ	Jloth	rix ap. (AE)						υ	rospo	ra sp. ()	LE)			
Site Pair I	Mvd N	c	SE	N	0	SE	CA	D	P	N	c	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	. (CV D	p
30196C/30196 31252C/31248 31252C/31252 99826C/33141	1 6 1 6	0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.0 0.0 0.0	0 – 0 –	0 0 0		6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00)	- 0 - 0 - 0	1.000
Habitat Means	S	0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00)	٥	
Fisher's Stouffer's	Power Power				r-50% r-50%		P-va P-va		0.698 0.500	Power Power				r-50% r-50%		P-val		0.698 0.500	Power Power				r-50% r-50%				0.698
30196C/30196 31252C/31248 31252C/31252 99826C/33141	2 5 2 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0	0 -	0000	1.000 1.000 1.000 1.000	4 5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	4 5 5 6	0.00 0.00 0.00	0.00 0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00)	- o - o - o	1.000
Habitat Means	S	0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer's	Power Power				r-30% r-30%				0.698 0.500	Power Power				r-50% r-50%				0.698 0.500	Power Power			Power					0.698 0.500
30196C/30196 31252C/31248 31252C/31252 99826C/33141	3 5 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0	0 -	0	1.000 1.000 1.000 1.000	4 5 5 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	4 5 5 4	4.37 0.00 0.00 0.00	4.37 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	l I	- · · · · · · · · · · · · · · · · · · ·	1.000
Habitat Means	3	0.00	0.00		0.00	0.0	0	o			0.00	0.00		0.00	0.00		o			1.10	1.10		0.00	0.00		_	
Fisher's Stouffer's	Power Power			Power Power					0.698 0.500	Power Power				r-50% r-50%				0.698 0.500	Power Power			Power	r-50%		P-1		0.492 0.245

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

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		Мо	rphologic	cal Gr	oup:	Tubular	and Sa	ccat	e Gre	ens		В1	iding	La/Ent	teromorph	a (AE) (a)									
ite Pair 1	Mvd	N	c	SE	N	0	SE	C	ם ע	P	N	С	SE	N		SE	CV D	P	N	c	88	N	0	SE	CV D	P
0196C/30196 1252C/31248 1252C/31252 9826C/33141	1	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.0 0.0 0.0	0	- 0 - 0 - 0	1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- 0	1.000								
abitat Means	s		0.00	0.00)	0.00	0.0	0	0			0.00	0.00		0.00	0.00	0									
Tisher's Stouffer's		Power Power				er-50% er-50%				0.698 0.500	Power Power				r-50% r-50%		P-value P-value		Power Power			Power			P-value P-value	
0196C/30196 1252C/31248 1252C/31252 9826C/33141	2	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.0 0.0 0.0	0	- 0	1.000 1.000 1.000 1.000	4 5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- 0	1.000								
abitat Means	s		0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00										
Fisher's Stouffer's		Power Power				er-50% er-50%				0.698 0.500	Power Power				r-50% r-50%		-value		Power Power			Power Power			P-value P-value	
0196C/30196 1252C/31248 1252C/31252 9826C/33141	3	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0	0	- 0	1.000 1.000 1.000 1.000	4 5 5 4	0.00 0.00 0.00 0.00	0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0	1.000								
abitat Means	3		0.00	0.00		0.00	0.0)	0			0.00	0.00		0.00	0.00	0									
Fisher's Stouffer's		Power Power				er-50% er-50%				0.698 0.500	Power Power				r-50% r-50%	I	-value -value		Power Power			Power Power			P-value 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 after pair.

Table C-5.417. Algal Percent Cover. Phaeophyta. Rodiak/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; 0 = control = oiled; P = probability value; dashes = insufficient data.

				Total	Phaeopl	yta				Morp	hologi	cal G	roup:	Bladed B	rowns					Alari	авр. (А	L)		
Site Pair M	vd N	С	SE	N	0	SE	CV	D 19	N	С	SE	N	0	SE	CA D	P	N	С	SE.	N	٥	SE	GA D	P
30196C/30196 31252C/31248 31252C/31252 99826C/33141	1 6 1 6	14.17 4.17 4.17 0.00	13.19 3.69 3.69 0.00	6	22.08 9.75 0.00 17.50	14.0 7.3 0.0 8.8	5 -	- 0.576 - 0.691 - 0.239 - 0.090	6 6 6	14.17 4.17 4.17 0.00	13.19 3.69 3.69 0.00	6	22.08 8.75 0.00 17.50	14.06 7.35 0.00 8.84		0.691 0.239	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- o	1.000 1.000 1.000 1.000
Habitat Means		5.65	5.15	;	12.10	7.5	9	-		5.65	5.15		12.10	7.58	-			0.00	0.00		0.00	0.00	0	
Fisher's Stouffer's	Pow Pow				r-50% r-50%	0.092 0.416		e 0.197 e 0.367	Power Power	0.063 0.047		Power			P-value P-value		Power Power			Power Power			P-value P-value	
30196C/30196 : 31252C/31248 : 31252C/31252 : 99826C/33141 :	2 5 2 5	11.88 24.00 24.00 12.50	7.02 18.88 18.88 5.59	6	17.50 12.08 0.00 15,83	14.5 9.0 0.0 8.7	5 - 0 -	- 0.919 + 0.578 + 0.238 - 0.784	4 5 5 6	11.88 24.00 24.00 12.50	7.02 18.88 18.88 5.59	6	17.50 12.08 0.00 15.83	14.58 9.05 0.00 8.70	- +	0.578 0.238	4 5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	·· o	1.000 1.000 1.000 1.000
Habitat Means		18.10	12.60		11.35	8.1	ס			18.10	12.60		11.35	8.10	1			0.00	0.00		0.00	0.00	٥	
Fisher's Stouffer's	Powe Powe				r-50% r-50%			e 0.345 e 0.281	Power Power	0.082 0.110		Power		0.411	P-value P-value		Power Power			Power Power			P-value P-value	
30196C/30196 31252C/31248 31252C/31252 99826C/33141	3 5 3 5 3 4	21.88 0.00 0.00 16.88	11,43 0.00 0.00 9.76	6 6 2	18.12 8.33 19.17 45.00	12.5 6.5 14.5 30.0	4 – 2 – 0 –	- 0.167 - 0.289	4 5 5 4	21,88 0.00 0.00 16.88	11.43 0.00 0.00 9.76	6 2	18.12 3.33 19.17 25.00	12.52 2.11 14.52 10.00	 	0.175 0.167	4 5 5 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 2	2.50 0.00 0.00 0.00	2.50 0.00 0.00 0.00	- o - o	0.391 1.000 1.000
Habitat Means Fisher's Stouffer's	Powe Powe			Powe	22.65 r-50% r-50%	15.8 0.042		2 0.074 2 0.181	Power Power	9.70 0.314	5.30	Power Power			P-value P-value		Power Power	0.00		Power Power			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 habital means is different than direction of overall tests. T Only one site pair.

Table C 5.417, Page 1, December 15, 1994

				Tota	1 Fuc	us gardr	eri (P)					Ađ	ult Fu	cus g	gardneri	(P) (> 2	cm)				Juve	mile F	'ucu#	gardneri	(P) (<=	. 2cı	m)	
lite Pair	Mvd	N.	С	ge	N	0	SE	ÇΨ	D	P	N	С	SE	N	0	\$E	cv	D	P	N	c	SE	N	0	SE	CI	V D	P
0196C/30196 1252C/31248 1252C/31252 9826C/3314	8 1	6 6	14.17 4.17 4.17 0.00	13.19 3.69 3.69 0.00	6	22.08 8.75 0.00 17.50	14.06 7.35 0.00 8.84	-	+	0.576 0.691 0.239 0.090	6 6 6	13.75 3.75 3.75 0.00	13.26 3.75 3.75 0.00	6	20.42 8.75 0.00 14.37	14.03 7.35 0.00 9.49	_	-	0.738 0.570 0.363 0.198	6 6 6	0.42 0.42 0.42 0.00	0.42 0.42 0.42 0.00	6 6	1.67 0.00 0.00 3.13	0.83 0.00 0.00) -		0.224 0.363 0.363 0.185
abitat Mean	ns		5.65	5.15		12.10	7.58		-			5.35	5.23		10.90	7.73		-			0.30	0.30		1.20	0.68	i	-	
Fisher's Stouffer's	s	Power Power				er-50% er-50%				0.197 0.367	Power Power	0.035 0.067			er-50% er-50%	0.003 0.044	P-val: P-val:		0.299 0.381	Power Power	0.126 0.044			r-50% r-50%				0.269 0.371
0196C/30190 1252C/31248 1252C/31252 9826C/33141	8 2 2 2	5 5	11.88 24.00 24.00 12.50	7.02 18.88 18.88 5.59	6	17.50 12.08 0.00 15.83	14.58 9.05 0.00 8.70	-	+	0.919 0.578 0.238 0.784	4 5 5 6	11.88 24.00 24.00 12.50	7.02 18.88 18.88 5.59	6	17.00 12.08 0.00 15.83	14.63 9.03 0.00 8.70	_	++	0.942 0.578 0.238 0.784	4 5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6	0.50 0.00 0.00 0.00	0.50 0.00 0.00 0.00) ~) -	- 0	0.374 1.000 1.000 1.000
abitat Mear	ns		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 Stouffer's		Power Power				r-50% r-50%	0.412 0.581	P-val P-val		0.345 0.281	Power Power	0.087 0.115			er-50% er-50%	0.392 0.553	P-valu P-valu		0.341 0.273	Power Power				r-50% r-50%				0.483 0.237
0196C/30196 1252C/31248 1252C/31252 9826C/33141	8 3 2 3	5 5	21.88 0.00 0.00 16.88	11,43 0.00 0.00 9,76	6 6	15.62 3.33 19.17 25.00	13.13 2.11 14.52 10.00	-	-	0.607 0.175 0.167 0.535	4 5 5 4	21.88 0.00 0.00 16.88	11.43 0.00 0.00 9.76	6	15.62 3.33 19.17 25.00	13.13 2.11 14.52 10.00	_	-	0.607 0.175 0.167 0.535	4 5 5 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) -	- 0	1.000
abitat Mear	ns		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	
Fisher's Stouffer's		Power Power	0.242			r-50% r-50%		P-val P-val		0.105	Power Power	0.233 0.210			er-50% er-50%		P-valu P-valu		0.105 0.224	Power Power				r-50% r-50%				0.698 0.500

 $[\]times$ At least one site pair p value < 0.100 in opposite direction of overall tests. y Direction of difference between habitat means is different than direction of overall cases. Only one size pair.

Table C-5.417. Algal Percent Cover. Phasophyta. Rodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Overstory removed August 1990. (Continued.)

			Fu	cus S	tipes (P)	(a)				Mo	rphologi	cal Gr	onb:	Coarse I	Filament	опв ј	Brow	ms		M	yelophy	cus/S	cytosiph	on (A) ((a)		
Site Pair My	rd N	С	914	N	0	SE	CV	Þ	P	N	c	SE	N	o	SE	ĊΛ	D	P	N	С	SE	N	0	SE	¢	J D	P
30196C/30196 1 31252C/31248 1 31252C/31252 1 99826C/33141 1	L 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- - - -	0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	_	0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		- n	1.000 1.000 1.000 1.000
Habitat Means		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Power Power				r-50% r-50%				0.698 0.500	Power Power				er-50% er-50%		-val -val		0.698 0.500	Power Power				r-50% r-50%				0.698 0.500
30196C/30196 2 31252C/31248 2 31252C/31252 2 99826C/33141 2	2 5 2 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 00.0 00.0 00.0	- - -	0	1.000 1.000 1.000 1.000	4 5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00	0.00 0.00 0.00 0.00			1.000 1.000 1.000 1.000	4 5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		- 0	1.000 1.000 1.000 1.000
Habitat Means		0.00	0.00		0.00	0.00		Ð			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Power Power				r-50% r-50%		P-va P-va		0.698 0.500	Power Power				er-50% er-50%		?-val ?-val		0.698 0.500	Power Power				r-50% r-50%				0.698 0.500
30196C/30196 3 31252C/31248 3 31252C/31252 3 99826C/33141 3	3 5 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000	4 5 5 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 20.00	0.00 0.00 0.00 20.00	-	0	1.000 1.000 1.000 0.500	4 5 5 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6 6 2	0.00 0.00 0.00 20.00	0.00 0.00 0.00 20.00		- 0	1.000 1.000 1.000 0.500
Habitat Means		0.00	0.00		0.00	0.00		0			0.00	0.00		5.00	5.00		-			0.00	0.00		5.00	5.00		-	
Fisher's Stouffer's	Power Power				r-50% r-50%		P-va P-va		0.698 0.500	Power Power				er-50% er-50%				0.544 0.480	Power Power				±-50% ±-50%				0.544 0.480

(a) Dead Fucus plants or stipes without blades.

(e) Genera not separated. x At least one site pair p-value < 0.180 in opposite direction of overall tests. y Direction of difference between habital means is different than direction of overall tests. z Only one site pair.

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		Morph	ologi	ical G	roup:	Fine Fi	lamento	us B	row	18		Fir	ne Fila	ment	ous Brown	a (AE) ((b)				Mor	phologic	cal G	roup: Cr	stose	Bro	WILE		
ita Pair Mv	d N	С		SB	N	0	Se	cv	D	P	N	С	SE	N	0	SE	CV I	D	P	N	С	Se	Ŋ	0	SE		ÇV I	D	P
0196C/30196 1 1252C/31248 1 1252C/31252 1 9826C/33141 1	. 6	0.0 0.0 0.0	0	0.00 0.00 0.00 0.00	6 6 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0	0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.0 0.0 0.0	0	- 1	9 1	1.000 1.000 1.000
abitat Means		0.0	0	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	,	0			0.00	0.00	,	0.00	0.0	0	,	0	
Fisher's Stouffer's	Powe Powe				Power	c-50% c-50%				0.698 0.500	Power Power				er-50% er-50%		-value		0.698 0.500	Power Power				er-50% er-50%			valu valu		0.698 0.500
0196C/30196 2 01252C/31248 2 01252C/31252 2 09826C/33141 2	5	0.0 0.0 0.0	0	0.00 0.00 0.00	5 6 6 3	0.00 0.00 0.00 0.00	0.00 00.0 00.0 00.0	-	0	1.000 1.000 1.000 1.000	4 5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 6 - 6	0	1.000 1.000 1.000 1.000	4 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.0 0.0 0.0	0	- (o 1	1.000 1.000 1.000 1.000
Mabitat Means		0.0	0	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00	1	0.00	0.0	0		Ö	
Fisher's Stouffer's	Powe					r-50% r-50%				0.698 0.500	Power Power				er-50% er-50%		P-value P-value		0.698 0.500	Power Power				er-20#			valu valu		0.698 0.500
0196C/30196 3 1252C/31248 3 1252C/31252 3 9826C/33141 3	5 5	0.0 0.0 0.0	0	0.00 0.00 0.00 0.00	4 6 6 2	0.00 5.00 0.00	0.00 5.00 0.00 0.00	_	-	1.000 0.363 1.000 1.000	4 5 5 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 5.00 0.00 0.00	0.00 5.00 0.00 0.00		-	1.000 0.363 1.000 1.000	4 5 5 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 2	0.00 0.00 0.00 0.00	0.0 0.0 0.0	0 10	-	0 :	1.000 1.000 1.000
Mabitat Means		0.0	0	0.00		1.25	1.25		-			0.00	0.00		1.25	1.25		-			0.00	0.00)	0.00	0.0	0		0	
Fisher's Stouffer's	Powe Powe					c-50% c-50%				0.477 0.336	Power Fower				er-50% er-50%		P-value P-value		0.477 0.336	Power Power				er-50% er-50%					0.698 0.500

(b) Elachista, Ectocarpus and Pilayella.

x At least one site pair p-value < 0.180 in opposite direction of overall tests.
y Direction of difference between habital means le different than direction of overall tests.
y Only one site pair.

Table C-5.417. Algal Percent Cover. Phaeophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Overstory removed August 1990. (Continued.)

		1	Ralfei	a/Pet	roderma	(P) (a)																			
dies Dair Med	¥	۲ .	g z	N	Ω	ЯR	CV	n P	N	C	SE	N	0	82	ĊΛ	D	₽	N	С	SE	N	0	SE	CV D	P
31252C/31248 1 31252C/31252 1 99826C/33141 1	6		0.00 0.00 0.00	6	0.00	0.00 0.00 0.00	-	o 1.000 o 1.000)																
Habitat Means		0.00	0.00		0.00	0.00		0																	
	Power Power			Power				e 0.698 Le 0.500				Power Power			P-val: P-vai:			Power Power			Power-			P-value P-value	
30196C/30196 2 31252C/31248 2 31252C/31252 2 99826C/33141 2	5 5	0.00 0.00 0.00	0.00 0.00 0.00 0.00	б 6	0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	o 1.000 o 1.000 o 1.000 o 1.000																	
Habitat Means		0.00	0.00		0.00	0.00		0																	
Fisher's Stouffer's	Power Power			Power Power				e 0.69				Power-			P-valı P-valı			Power Power			Power Power			P-value P-value	
30196C/30196 3 31252C/31248 3 31252C/31252 3 99826C/33141 3	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	o 1.00 o 1.00 o 1.00 o 1.00																	
Habitat Means		0.00	0.00		0.00	0.00		o																	
Fisher's Stouffer's	Power Power			Power Power				e 0.69 ie 0.50				Power Power			P-valı P-valı			Power Power			Power Power			P-value 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. Tonly one site pair.

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	Rhodoph	yta					Mor	holog	ical	Group:	Bladed	Reds					Gigart	inace	ae Group	(P) (a))	
Site Pair Mv	d N	С	SE	N	0	SE	CV	D	P	N	С	SE	N	0	8E	C,	V D	P	N	c	SE	N	0	SE	CV D	P
30196C/30196 1 31252C/31248 1 31252C/31252 1 99826C/33141 1	. 6 . 6	2.92 0.00 0.00 1.67	2.08 0.00 0.00 1.67	6	3.75 0.00 0.00 4.37	3.75 9.00 0.00 4.37		0	0.886 1.000 1.000 0.630	6 6 6	0.42 0.00 0.00 0.00	0.42 0.00 0.00 0.00	6	0.42 0.00 0.00 0.00	0.4 0.0 0.0 0.0	0 ·	- 0 - 0 - 0	1.000 1.000 1.000 1.000	6 6 6 . 6	0.42 0.00 0.00 0.00	0.42 0.00 0.00 0.00	6 6	0.42 0.00 0.00 0.00	0.42 0.00 0.00 0.00	- 0	1.000 1.000 1.000 1.000
Habitat Means		1.15	0.95		2.05	2,05		-			0.10	0.10		0.10	0.1	0	o			0.10	0.10		0.10	0.10	0	
Fisher's Stouffer's	Power Power	0.003 0.004			r-50% r-50%		P-valı P-valı		0.568 0.440	Power Power				r-50% r-50%			alue alue	0.698 0.500	Power Power				r-50% r-50%		P-value P-value	
30196C/30196 2 31252C/31248 2 31252C/31252 2 99826C/33141 2	5 5	6.88 3.00 3.00 6.25	5.34 3.00 3.00 5.27	6	48.00 0.00 0.83 5.83	20.02 0.00 0.83 4.64	-	•	0.184 0.374 0.625 0.849	4 5 5 6	1.88 0.00 0.00 0.00	1.20 0.00 0.00 0.00	6	21.50 0.00 0.00 0.00	13.8 0.0 0.0 0.0	0 -	 - 0 - 0	0.362 1.000 1.000 1.000	4 5 5 6	1.88 0.00 0.00 0.00	1.20 0.00 0.00 0.00	6 6	20.00 0.00 0.00 0.00	12.65 0.00 0.00 0.00	- 0	0.368 1.000 1.000 1.000
Habitat Means		4.80	4.15		13.65	6.35		+			0.48	0.30		5.37	3.4	7	-			0.48	0.30		5.00	3.17	-	
Fisher's Stouffer's	Power Power	0.003 0.006			r-50% r-50%		P-val: P-val:		0.475 y 0.680	Power Power	0.007 0.003			r-50% r-50%	0.016 0.005		alue alue	0.476 0.231	Power Power	0.006 0.004			r-50% r-50%		P-value P-value	
30196C/30196 3 31252C/31248 3 31252C/31252 3 99826C/33141 3	5 5	16.25 1.50 1.50 18.75	9.49 1.50 1.50 18.75	6 6 2	47.50 0.42 1.67 2.50	21.46 0.42 1.24 2.50	- - -	+ - +	0.299 0.629 0.820 0.727	4 5 5 4	14.37 0.00 0.00 0.00	7.80 0.00 0.00 0.00	6 6 2	30.00 0.00 0.42 1.25	14.7 0.0 0.4 1.2	0 2 5	- 0	0.476 1.000 0.363 0.500	4 5 5 4	10.63 0.00 0.00 0.00	8.32 0.00 0.00 0.00	6 6 2	12.50 0.00 0.42 0.00 3.22	7.50 0.00 0.42 0.00	- o	0.882 1.000 0.363 1.000
Habitat Means		9.53	7.83		13.02	6.40		-			3.60	1.95		7.93	4.1		-									
Fisher's Stouffer's	Power Power	0.074 0.077			r-50% r-50%		P-valı P-valı			Power Power	0.093 0.169			r-50% r-50%	0.012		alue		Power Power	0.008 0.009			r-50% r-50%		P-value P-value	

(a) Chondrus, Iridaea, Mastorarpus and Rhodoplosaum.

At least one site pair p-value < 0.001 in opposite direction of overall tests.

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

Only one site pair.

Tabie C-5,418. Page 1. December 15, 1994

			E	Palmar	ia spp.	(A)						Ph	ycodr	ys riggii	(A)						1	Porph	уга вр. (A)			
Site Pair Mvd	N	С	SE	N	0	8E	CV	D	P	N	С	SE	N	0	SE	CV	Ð	P	N	c	SE	N	0	SE	C	V D	Р
30196C/30196 1 31252C/31248 1 31252C/31252 1 99826C/33141 1	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0	0 – 0 –	0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		- o	1.000 1.000 1.000 1.000
Habitat Means		0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
	Power Power				r-50% r-50%				0.698 0.500	Power Power				r-50% r-50%		P-valu P-valu		0.698 0.500	Power Power				r-50% r-50%				0.698 0.500
30196C/30196 2 31252C/31248 2 31252C/31252 2 99826C/33141 2	5 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6 6	0.00 0.00 0.00	0.0 0.0 0.0	0 - 0 -	0	1.000 1.000 1.000 1.000	4 5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	4 5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		- 0	1.000 1.000 1.000 1.000
Habitat Means		0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
	Power Power				r-50% r-50%		P-va P-va		0.698 0.500	Power Power				r-50% r-50%		P-val: P-val:		0.698 0.500	Power Power				r-50% r~50%				0.698 0.500
30196C/30196 3 31252C/31248 3 31252C/31252 3 99826C/33141 3	5 5	3.13 0.00 0.00 0.00	2.37 0.00 0.00 0.00	6 6	17.50 0.00 0.00 0.00	17.5 0.0 0.0 0.0	0 -	0	0.640 1.000 1.000 1.000	4 5 5 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1,000 1,000 1,000 1,000	4 5 5 4	0.63 0.00 0.00 0.00	0.63 0.00 0.00 0.00	6 6	0.00 0.00 0.00 1.25	0.00 0.00 0.00 1.25		- o	0.391 1.000 1.000 0.500
Habitat Means		0.78	0.60		4.37	4.3	7	-			0.00	0.00		0.00	0.00		Q			0.15	0.15		0.33	0.33		+	
	Power Power	0.000			r-50% r-50%	0.004	P-va P-va		0.598 0.353	Power Power				r-50% r-50%				0.698 0.500	Power Power				r-50% r-50%				0.579 y 0.261

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

Table C-5.418. Algal Percent Cover. Rhodophyta. Rodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Overstory removed August 1990. (Continued.)

			The	ridad	endro	n kuriler	neis (2	.)			14	orphologi	cal G	roup:	Coarse	Filame	atous	Ređ	s			Crypt	osipho	onia wood	lii (A)			
ite Pair N	rvd N			JE SE	N	0	SB	CV	D	P	N	С	9E	N	0	ge	CV	D	P	N	С	SE	N	0	SZ	CA	D	P
0196C/30196 1252C/31248 1252C/31252 9826C/33141	1 6 1 6 1 6	0.0		0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 6 6	1.25 0.00 0.00 1.67	0.85 0.00 0.00 1.67	6	0.00 0.00 0.00 4.37	0.00 0.00 0.00 4.37) –) –	0	0.183 1.000 1.000 0.630	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Mabitat Means Fisher's Stouffer's	Powe	er	.00		Power Power		0.00	P-va		0.698	Power Power	0.75 0.009 0.010			1.10 er-50% er-50%	0.016 0.023			0.403 y 0.149	Power Power	0.00		Power Power	-50%		P-va P-va	lue	0.698 0.500
30196C/30196 31252C/31248 31252C/31252	2 4 2 5 2 5	0	.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00	0.00) –) –	0	1.000 1.000 1.000 1.000	4 5 5	5.00 3.00 3.00 6.25	5.00 3.00 3.00 5,27	6 6	10.00 0.00 0.42 5.83	6.07 0.00 0.42 4.64	2 -	+	0.482 0.374 0.511 0.849	4 5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6 6	3.00 0.00 0.00 0.00	2.00 0.00 0.00 0.00	-	0	0.187 1.000 1.000 1.000
9826C/33141 abitat Mean: Fisher's		0	.00	0.00	Power	0.00	0.0	P-va		0.698	Power	0.009	4.08		4.05	2.73 0.089 0.250	P-va P-va		0.400	Power Power	0.00 0.005 0.001		Power	0.75 r-50% c-50%		P-va P-va		0.351 0.144
Stouffer's 30196C/30196 31252C/31248 31252C/31252	Power 3 4 3 5 3 5	0 0 0	.00	0.00 0.00 0.00	Power 4 6 6 2	0.00 0.00 0.00 0.00	0.0 0.0 0.0) -) -	0	1.000 1.000 1.000 1.000	Power 4 5 4	0.029 1.88 1.50 1.50 8.75	1.88 1.50 1.50 8.75	4 6 6	7.50 0.42 0.83 1.25	5.93 0.43 0.83 1.23	5 -	-	0.439 0.629 0.790 0.761	4 5 5 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00	4 6 6	1.88 0.00 0.00 1.25	1.88 0.00 0.00 1.25) -) -	0	0.391 1.000 1.000 0.500
99826C/33141 Habitat Mean			.00	0.00		0.00	0.0	0	0	0.698	Power	3.42 0.004	3.42	Powe	2.50 er-50%	2.1	3 P-va	t lue	0.580	Power	0.00	0.00	Powe	0.80 r-50%		P-va		0.359
Fisher's Stouffer's	Powe Powe				Power Power			P-va P-va		0.500	Power	0.020			er-50%				0.611	Power			Powe:	⊻-50 %		P-va	lue	0.230

At least one site pair p-value < 3.100 in opposite direction of overall tests. Direction of difference between babitat means is different than direction of overall tests.

z Only one site pair.

Neorhodomela/Rhodomela (P) (a) Gloiopeltis furcata (A) Endocladia muricata (P) O 8K CV D P C CV D P N 0 SE C SE CV D SE SE Site Pair Mvd N С 0.00 1.000 1,000 0.00 0.00 0 0.00 0.00 O 0.00 0.363 0.00 - o 1.000 0.00 30196C/30196 1 0.83 0.83 0.00 0.00 6 0.00 0.00 1,000 0.00 0.00 0 0.00 - o 1.000 0.00 0.00 - 0 1.000 0.00 n nn 0.00 0.00 0.00 0.00 0.00 31252C/31248 1 0.00 0.00 _ 0 1.000 0.00 0.00 - 0 1.000 0.00 4.37 0.391 0.00 0.00 Б 0.00 0.00 4.37 31252C/31252 1 0.00 6 1.67 4 0.00 0.00 0.363 - 0 1.000 1.67 0.00 0.00 0.00 4 0.00 99826C/33141 1 1.50 1.10 0.00 0.00 0.42 0.00 0.00 0.42 0.00 0.20 0.20 Mahitat Means --- P-value 0.492 Power-50% --- P-value 0.477 Power Power-50% --- P-value 0.477 Power-50% Power Power-50% --- P-value 0.475 Fisher's Power Power --- P-value 0.474 Power-50% --- P-value 0.232 Power ---Power-50% Stouffer's Power 6.39 - - 0.263 0.00 0.00 1.000 0.00 0.00 - 0 0.00 0.00 0.391 0.00 0.00 - + 0.374 5.00 5 30196C/30196 2 4 5.00 - o 1.000 3.00 3.00 0.00 0.00 0.00 0.00 0.00 6 0.00 0.00 - 0 1.000 - + 0.511 0.42 0.00 0.00 6 3.00 3.00 0.42 31252C/31248 2 - o 1.000 0.00 6 0.00 0.00 - o 1.000 0.00 0.00 - + 0.860 0.00 0.00 0.00 5.42 5.42 5.00 5.00 31252C/31252 2 0.83 0.83 - - 0.423 0.00 0.00 3 0.00 0.175 0.00 0.83 0.53 99826C/33141 2 2.95 2.85 3.10 0.20 2.85 0.00 0.00 0.20 0.00 0.00 1.45 1.38 Habitat Means --- P-value 0.428 y Power-50% --- P-value 0.508 Power 0.001 Power-50% 0.049 P-value 0.207 Power --- P-value 0.595 0.049 Power-50% Power-50% Power 0.001 Fisher's --- P-value 0.477 Power Power-50% 0.044 P-value 0.215 Power Power-50% Power 0.043 Stouffer's - - 0.391 3.75 3.75 0.391 0.00 0.00 0.00 0.00 1.25 0.00 - - 0.391 - o 1.000 0.00 0.00 0.00 1.88 1.88 30196C/30196 3 - + 0.629 0.00 0.00 0.42 1.50 1.50 0.42 0.00 - 0 1.000 - - 0.363 0.00 0.00 0.83 0.83 0.00 0.00 0.00 31252C/31248 3 0.374 - -1.50 1.50 0.00 0.00 0.00 0.00 0 1.000 0.00 - + 0.391 31252C/31252 3 0.00 0.00 1.000 8.75 8.75 0.00 - 0 0.00 2 0.00 0.00 0.00 - o 1.000 0.00 0.00 0.00 99826C/33141 3 0.00 - 2 1.15 1.15 2.20 2.20 0.42 0.42 0.75 0.75 0.48 0.00 0.00 0.48 Habitat Means Power-50% --- P-value 0.386 y --- P-value 0.485 Power Power-50% P-value 0.492 Power --- P-value 0.170 Power-50% --- P-value 0.559 ___ Power-50% Power Fisher's Power-50% Downer 50% --- P-173 110 N 2/15 Power Descent

Table C-5.418. Page 3. December 15, 1994

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

Table C-5.418, Algal Percent Cover, Rhodophyta, Kodiak/Alaska Peninsula, Sheltered Rocky, May 1991, Overstory removed August 1990, (Continued.)

			Odor	nthali	a flocco	8a (P)						Ptilo	ta/Ne	optilota	(P) (b)					Mor	pholog	ica1	Group: 8	accate	Re	ds	
Site Pair Mv	dN	С	SE	N	0	SE	CV	D	Þ	N	c	\$E	N	0	SE	ÇV	D	P	27				-		_	m ·	-
30196C/30196 1 31252C/31248 1 31252C/31252 1 99826C/33141 1	6	0.42 0.00 0.00 0.00	0.42 0.00 0.00 0.00	6	0.00 0.00 0.00	0.00 0.00 0.00	-	+ 0. 0 1. 0 1. 0 1.	000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 0.00 0.00	0.0	10		
Habitat Means		0.10	0.10		0.00	0.00		+			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.0	0	0	
Fisher's Stouffer's	Power Power			Power Power				e 0.		Power Power				r-50% r-50%		P-valu P-valu		0.698 0.500	Power Power				r-50% r-50%				0.698
30196C/30196 2 31252C/31248 2 31252C/31252 2 99826C/33141 2	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 0.00 0.00	0.00 0.00 0.00	~	0 1.	000	4 5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000	4 5 5 6	0.00 0.00 0.00	0.00	6	1.00 0.00 0.00 0.00	1.0 0.0 0.0	0	0 - 0	1.000
Habitat Means		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.25	0.2	5	_	
Fisher's Stouffer's	Power Power			Power Power			-valu	e 0.		Power			Power			-valu		0.698	Power Power			Power	c+50% c−50%				0.483 0.237
30196C/30196 3 31252C/31248 3 31252C/31252 3 99826C/33141 3	5 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.63 0.00 0.00 0.00	0.63 0.00 0.00 0.00	_			4 5 5 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	4 5 5 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6	0.00 0.00 0.00	0.0 0.0 0.0	0	- 0 - 0 - 0	1.000
Habitat Means		0.00	0.00		0.15	0.15		-			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.0	0	0	
Fisher's Stouffer's	Power Power			Powe≃ Power		P		e 0. e 0.		ower			Power Power			valu		0.698 0.500	Power Power			Power Power					0.698 0.500

(b) Genera not separated.

x At least one sits pair p-value < 0.100 in opposite direction of overall tests.</p>
y Direction of difference between habitat means is different then direction of overall tests.
z Orly one site pair.

Тарін C-5.4]Я. Ряде 5. Secember 15, 1994

				Halosa	accion	glandifo	orme (A)				Morpholo	gical	Group	p: Fine	Filament	ous Re	abe				Calli	thamn	ion pikes	nnum (A)			
Site Pair M	bvě	N	c	SE	N	o	SE	CV	D	P	N	С	SE	N	0	SE	CV I	D	P	N	С	SE	N	0	SE	СV	D	Þ
30196C/30196 31252C/31248 31252C/31252 99826C/33141	1	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- (0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- - -	0	1.000 1.000 1.000
Habitat Means	\$		0.00	0.00		0,00	0.00)	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power				r-50% r-50%		P-val P-val		0.698 0.500	Power Power				r-50% r-50%		P-value P-value			Power Power				r-50% r-50%				0.698 0.500
30196C/30196 31252C/31248 31252C/31252 39826C/33141	2	5	0.00 0.00 0.00	0.00 0.00 0.00 0.00	6	1.00 0.00 0.00 0.00	1.00 0.00 0.00	-	0	0.374 1.000 1.000	4 5 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6	9.00 0.00 0.00	7.81 0.00 0.00 0.00	- 0	>	0.243 1.000 1.000	4 5 5	0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000
Habitat Means	š		0.00	0.00		0.25	0.25		-			0.00	0.00		2.25	1.95					0.00	0.00		0.00	0.00		0	1.000
Fisher's Stouffer's		Power				r-50% r-50%		P-val P-val		0.483 0.237	Power Power	0.000			r-50% r-50%		P-value P-value			Power Power				=-50% =-50%	<u>F</u>		lue	0.698
80196C/30196 : 81252C/31248 : 81252C/31252 : 99826C/33141 :	3	4 5 5 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00	0.00 0.00 0.00	~	0	1.000 1.000 1.000 1.000	4 5 5 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 10.00	6	6.88 0.00 0.42 0.00	6.88 0.00 0.42 0.00	- 0		0.391 1.000 0.363 0.391	4 5 5 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6 6	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000
dabitat Means	3		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		0	
Fisher's Stouffer's	_	ower				r-50% r-50%		P-val P-val		0.698 0.500	Power Power				r-50% r-50%		-value		0.386 y 0.170	Power Power			Powe:		P			0.698

x At least one site pair p-value < 0.100 in opposite direction of overall tests, y Direction of difference between habitat means is different than direction of overall tests. 2 Only one site pair.

Table C-5.418. Algal Percent Cover. Rhodophyta. Kodiak/Alaska Peninsula, Sheltered Rocky. May 1991. Overstory removed August 1990. (Continued.)

			Poly	giphor	ila/Pt	erosiphor	nia (A)	(a)				Morph	ologi	cal G	roup: Cr	rustose	Reds					Crusto	se Cor	alline A	lgae (P)		
Site Pair M	Mvd	N	c	SE	N	0	SE	CV	Þ	P	Ŋ	с	SB	N	0	SE	CA I	,	P	N	c	88	N	0	SE	CV	D	P
30196C/30196 31252C/31248 31252C/31252 99826C/33141	1	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6 6	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 6 6	1.25 0.00 0.00 0.00	1.25 0.00 0.00 0.00	6 6 4	3.33 0.00 0.00 0.00	3.33 0.00 0.00 0.00	- c	5	0.737 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Means	s		0.00	0.00		0.00	0.00	ı	0			0.33	0.33		0.83	0.83		-			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power			Power			P-va P-va		0.698 0.500	Power Power				r-50% r-50%		e-value e-value		0.630	Power Power			Power			P-va P-va		0.698
30196C/30196 31252C/31248 31252C/31252 99826C/33141	2	1 5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	9.00 0.00 0.00	7.82 0.00 0.00) -) -	0	0.243 1.000 1.000 1.000	4 5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6 3	6.50 0.00 0.42 0.00	4.44 0.00 0.42 0.00		0	0.190 1.000 0.363 1.000	4 5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6 6 3	2.00 0.00 0.00 0.00	2.00 0.00 0.00 0.00	-	0	0.374 1.000 1.000 1.000
Habitat Means	5		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 Stouffer's		Power	0.000		Power					0.398	Power Power	0.022			r-50% r-50%		P-value P-value		0.208	Power Power			Power					0.483
30196C/30196 31252C/31248 31252C/31252 99826C/33141	3	4 5 5	0.00 0.00 0.00 10.00	0.00 0.00 0.00 10.00	6 6	6.88 0.00 0.42 0.00	6.88 0.00 0.42 0.00) – ! –	0	0.391 1.000 0.363 0.391	4 5 5 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6 6	3.13 0.00 0.00 0.00	3.13 0.00 0.00 0.00	- (0	0.391 1.000 1.000 1.000	4 5 5 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 0.00 0.00	1.88 0.00 0.00 0.00	-	0	0.391 1.000 1.000 1.000
Habitat Means			2.50	2,50		1.82	1.8	?	-			0.00	0.00		0.78	0.78		-			0.00	0.00)	0.48	0.48		-	
Fisher's Stouffer's		Power Power			Power Power					0.386 y 0.170	Power Power				r-50% r-50%		P-valu P-valu		0.492	Power Power				r-50% r-50%				0.492 0.245

(a: Genera not separated.

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

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					Petro	celis (P)																				
Site Pair	Mvd	1 N	С	SE	и	0	SE	CV	D P	N N	С	SE	N	۰.	SE	GA	D	P	N	С	SE	N	0	SE	CV	D	P
30196C/3019 31252C/3124 31252C/3125 99826C/3314	18 1	6 6	1.25 0.00 0.00 0.00	1.25 0.00 0.00 0.00	6 6	3.33 0.00 0.00 0.00	3.33 0.00 0.00 0.00	-	- 0.77 0 1.09 0 1.09	00 00																	
Habitat Mea	ins		0.33	0.33		0.83	0.83	ı	-																		
Fisher's Stouffer'	s	Power Power			Power Power			P-valu	e 0.6	30 Power 94 Power			Power- Power-			P-val P-val			Power Power			Power Power			P-val		
30196C/3019 31252C/3124 31252C/3125 99826C/3314	18 2 52 2	5 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	4.50 0.00 0.42 0.00	4.50 0.00 0.42 0.00) – ! –	- 0.3 o 1.0 - 0.3 o 1.0	00 63																	
labitat Mea	ans		0.00	0.00		1.23	1.23	}	-																		
Fisher's Stouffer'	's	Power Power			Power Power				e 0.2 le 0.1				Power Power						Power Power			Power Power			P-val P-val		
30196C/3019 31252C/3124 31252C/3125 99826C/3314	48 3 52 3	5 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	1.25 0.00 0.00 0.00	1.25 0.00 0.00 0.00) –) –	- 0.3 o 1.0 o 1.0 o 1.0	00 00																	
Habitat Mea	ans		0.00	0.00		0.33	0.33	3	-																		
Fisher's		Power			Power				ie 0.4				Power Power			2-val 2-val			Power Power			Power Power			P-val P-val		

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

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.

				A	ctiniidae								Bal	Lanomorpi	na							Lo	ttiidae				
Site Pair b	Mvd N	С	8E	N	0	SE	СV	D	P	м	С	SE	N	٥	SE	ÇV :	D	P	N	c	gr	N	O	SE	(g VS	P
30196C/30196 31252C/31248 31252C/31252 99826C/33141	1 6 1 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0	0 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0	0 - 0 -	0	1.000 1.000 1.000 1.000	6 6 6	35.42 16.67 16.67 6.25	11.52 9.12 9.12 2.39	6 6	4.17 22.08 61.67 7.50	2.79 7.08 11.60 4.21		-	0.029 0.631 0.010 0.840	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	1	- 0	1.000 1.000 1.000 1.000
Habitat Means	s	0.00	0.0	0	0.00	0.0	0	0			18.78	8.02		23.87	6.43		-			0.00	0.00		0.00	0.00	I	0	
Fisher's Stouffer's	Powe Powe				er-50% er-50%		P-va P-va		0.698 0.500	Power Power				er-50% er-50%	0.541			0.066× 0.726	Power Power				r-50% r-50%				0.698 0.500
30196C/30196 31252C/31248 31252C/31252 99826C/33141	2 5 2 5	0.00 0.00 0.00	0.00 0.00 0.00) 6) 6	0.00 0.00 0.00	0.00 0.00 0.00	0 - 0 -	0	1.000 1.000 1.000 1.000	4 5 5 6	15.63 70.50 70.50 35.00	4.13 19.26 19.26 8.32	6 6	0.50 49.17 93.33 10.00	0.50 13.30 5.23 5.00		+	0.001 0.299 0.294 0.094	4 5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		- o	1.000 1.000 1.000 1.000
Habitat Means	8	0.00	0.0	0	0.00	0.0	0	0			47.90	12.75		38.25	6.00		-			0.00	0.00		0.00	0.00	ı	0	
Fisher's Stouffer's	Powe Powe	_			er-50% er-50%				0.698 0.500	Power Power				er-50% er-50%		P-value P-value		0.001	Power Power				r-50% r-50%				0.698 0.500
30196C/30196 31252C/31248 31252C/31252 99826C/33141	3 5 3 5	0.00 0.00 0.00	0.00 0.00 0.00	6 6	0.00 0.00 0.00	0.00 0.00 0.00	0 ~	0	1.000 1,000 1.000 1.000	4 5 5 4	0.00 96.50 96.50 2.50	0.00 1.70 1.70 1.77	6 6	0.00 72.08 63.33 0.00	0.00 14.00 13.63 0.00	- :	+	1.000 0.125 0.039 0.204	4 5 5 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6	0.63 0.00 0.00 0.00	0.63 0.00 0.00 0.00		- 0	0.391 1.000 1.000
Habitat Means	8	0.00	0.00	Ò	0.00	0.00	0	0			48.87	1.30		33.85	6.90	-	+			0.00	0.00		0.15	0.15	,	-	
Fisher's Stouffer's	Powe Powe	_			er-50% er-50%				0.698 0.500	Power Power				er-50% er-50%		P-value P-value		0.013	Power Power				r-50% r-50%				0.492 0.245

x At least one site gair p value < 0.100 in opposite direction of overall tests. y Direction of difference between habitat means is different than direction of overall tests. 2 O(1) or a site pair.

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				МУ	tilus							Lit	torinida	e							P	orifera				
Site Pair My	o N	С	SE	N	0	SE	CA 1	P	N	c	SE	N	0	88	CV E	_	P	N	c	SE	N	0	SE	CV	D	P
30196C/30196 31252C/31248 31252C/31252 99826C/33141	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.63	0.00 0.00 0.00 0.63	1 ~ 0	1.000 1.000 1.000 0.391	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6 6	0.42 0.00 0.42 1.88	0.42 0.00 0.42 1.20	 - 0) - i	0.363 1.000 0.363 0.191	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 0.00 0.00	0.00 0.00 0.00) -) -	0	1.000 1.000 1.000 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	
Fisher's Stouffer's	Power Power			Power-				0.492	Power Power	0.131			r-50% r-50%		P-value P-value			Power Power				r-50% r-50%				0.698 0.500
30196C/30196 2 31252C/31248 2 31252C/31252 2 99826C/33141 2	5 5	2.50 0.00 0.00 3.33	2.50 0.00 0.00 2.01	6 6	0.50 0.00 0.00 0.83	0.50 0.00 0.00 0.83) ~ 6	0.559 1.000 1.000 0.484	4 5 5 6	0.00 0.00 0.00 2.50	0.00 0.00 0.00 1.71	6	0.00 2.92 2.08 0.83	0.00 1.19 1.00 0.83	- o	- (1.000 0.033 0.081 0.693	4 5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- -	0	1.000 1.000 1.000 1.000
Habitat Means		1.45	1.13		0.33	0.33	1 4			0.63	0.42		1.45	0.75	-				0.00	0.00)	0.00	0.00	+	0	
Fisher's Stouffer's	Power Power	0.017 0.020		Power-				0.418	Power Power				r-50% r-50%		-value			Power Power				r-50% r-50%				0.698 0.500
30196C/30196 3 31252C/31248 3 31252C/31252 3 99826C/33141 3	5 5	0.00 0.00 0.00 20.00	0.00 0.00 0.00 11.95	6 6 2	0.00 3.75 0.42 7.50	0.00 3.28 0.42 7.50	~ .	0.363	4 5 5 4	0.00 1.00 1.00 0.63	0.00 0.61 0.61 0.63	6 6 2	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- o	- (1.000 0.178 0.178 0.391	4 5 5 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6 6 2	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 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	
Fisher's Stouffer's	Power Power	0.021 0.053		Power- Power-			P-value P-value	0.270 y 0.197	Power Power	0.509			r-50% r-50%		-value -value		0.074 0.120	Power Fower				r-50% r-50%				0.698 n 5nn

At least one site pair p value < 0.700 in opposite direction of 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. Algal Percent Cover. Invertebrates. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Overstory removed August 1990. (Continued.)

		Cnider	ia			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
30196C/30196 1 6 31252C/31248 1 6 31252C/31252 1 6 99826C/33141 1 6	0.00 0	.00 6 0. .00 6 0. .00 6 0.	00 0.00 - 0 1.000 00 0.00 - 0 1.000	0 6	0.00 0.0		0.00 - 0 1.000 0.00 - 0 1.000 0.00 - 0 1.000 0.00 - 0 1.000				
Habitat Means	0.00 0	.00 0.	00 0.00 0		0.00 0.0	00.00	0.00				
Fisher's Power Stouffer's Power		Power-50% Power-50%				Power-50% Power-50%	P-value 0.698 P-value 0.500	Power Power		Power-50% Power-50%	P-value P-value
30196C/30196 2 4 31252C/31248 2 5 31252C/31252 2 5 99826C/33141 2 6	0.00 0	.00 5 0. .00 6 0. .00 6 0.	00 0.00 - 0 1.000 00 0.00 - 0 1.000	0 5	0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0	00 6 0.00 00 6 0.00	0.00 - 0 1.000 0.00 - 0 1.000 0.00 - 0 1.000 0.00 - 0 1.000				
Habitat Means	0.00	.00 0.	0 0.00		0.00 0.0	0.00	0.00				
Fisher's Power Stouffer's Power		Power-50% Power-50%				Power-50% Power-50%	P-value 0.698	Power Power		Power-50% Power-50%	P-value
30196C/30196 3 4 31252C/31248 3 5 31252C/31252 3 5 99826C/33141 3 4	0.00 0	.00 4 0. .00 6 0. .00 6 0.	00 0.00 - 0 1.000 00 0.00 - 0 1.000	0 5 0 5	0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0	00 6 0.00 00 6 0.00	0.00 - 0 1.000 0.00 - 0 1.000 0.00 - 0 1.000 0.00 - 0 1.000				
Habitat Means	0.00	.00 0.	0.00		0.00 0.0	0.00	0.00 0				
Fisher's Power Stouffer's Power		Power-50% Power-50%	P-value 0.698 P-value 0.500			Power-50% Power-50%	P-value 0.698 P-value 0.500	Power Power		Power-50% Power-50%	P-value P-value

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

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.

					Rock									Mud									Sand		_		
Site Pair Mv	d N	С	SE	N	0	SE	CV	ם	P	N	c	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	-	CV D	P
30196C/30196 1 31252C/31248 1 31252C/31252 1 99826C/33141 1	6	47.50 79.17 79.17 90.00	12.94 10.03 10.03 6.06	6 6	69.58 68.75 37.92 68.12	14.78 8.08 11.39 9.86	-	+ 0	.240 .447 .019 .072	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 2.08	0.00 0.00 0.00 2.08	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	0 0	- 0	1.000 1.000 1.000 0.363
Habitat Means		73.98	9.75		61.10	11.05					0.00	0.00		0.00	0.00		0			0.52	0.52		0.00	0.00)	+	
Fisher's Stouffer's	Power Power			Power Power		0.988	P-valu P-valu			Power Power				r-50% r-50%		P-valu P-valu		0.69B 0.500	Power Power				r-50% r-50%				0.477
30196C/30196 2 31252C/31248 2 31252C/31252 2 99826C/33141 2	5 5	63.12 2.50 2.50 37.08	13.05 1.94 1.94 6.04	6 6	33.00 35.83 3.75 66.67	13.77 11.86 3.75 8.70	-	- 0	.008	4 5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6 6	0.00 0.00 0.00	0.00 0.00 0.00 00.0	-	0	1.000 1.000 1.000	4 5 5 6	0.00 0.00 0.00 1.25	0.00 0.00 0.00	6	0.00 0.00 0.00	0.00 0.00 0.00	0	- o	1.000 1.000 1.000 0.183
Habitat Means		26.30	5.73		34,83	9.55		-			0.00	0.00		0.00	0.00		0			0.33	0.23		0.00	0.00)		
Fisher's Stouffer's	Power Power			Power			P-valu P-valu			Power Power				r-50% r-50%				0.698 0.500	Power Power	0.003 0.001			r-50% r-50%				0.347
30196C/30196 3 31252C/31248 3 31252C/31252 3 99826C/33141 3	5 5	56.88 1.00 1.00 1.25	19.80 0.61 0.61 1.25	6 6	29.38 7.50 15.00 36.25	17.86 2.74 2.81 33.75	-	- 0 - 0	.300 .103 .000 .126	4 5 5 4	0.00 0.00 0.00 21.88	0.00 0.00 0.00 8.44	б 6	0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 0.066	4 5 5 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00)	- o	1.000 1.000 1.000 1.000
Habitat Means		15.05	5.58		22.05	14.30		-			5.48	2.10		0.00	0.00		F			0.00	0.00		0.00	0.00	3	0	
Fisher's Stouffer's	Power Power			Power Power			P-valu P-valu			Power Power	0.117 0.019			r-50% r-50%				0.202 0.446	Power Power				r-50% r-50%				0,698 0.500

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

Table 0-5.420. Page 1. Secember 15, 1

				Shell	Fragme	nte						Pi	lame	ntous Dia	tome						Zo	etera	/Phyllosp	adix			
Site Pair My	rd N	с	SE	N	٥	SE	CV	D	P	N	c	SE	N		SE	CV	D	P	N	С	SE	N	0	SE	-	CV D	P
31252C/31248 1 31252C/31252 1 99826C/33141 1	. 6	0.00 0.00 0.00	0.00 0.00 0.00	<i>6</i>	0.42 0.00 0.00	0.4 0.0 0.0	2 - 0 -	0	0.363	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6 6	0.00 0.00 0.00	0.00 0.00 0.00	ο 2	- 0	
Habitat Means		0.00	0.00		0.10	0.1	0	-			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer's	Power Power			Power Power					0.477 0.336	Power Power				er-50% er-50%				0.698 0.500	Power Power	% = % =			r-50% r-50%				0.698 0.500
30196C/30196 2 31252C/31248 2 31252C/31252 2 99826C/33141 2	5 5	0.00 0.00 0.00 2.08	0.00 0.00 0.00 1.36	6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0) -) -	0	1.000 1.000 1.000 0.178	4 5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	4 5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00)		
Habitat Means		0.52	0.35		0.00	0.0	O	+			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer's	Power Power	0.009 0.002		Power Power		0.009 0.001			0.342 0.461	Power Power				er-50% er-50%				0.698 0.500	Power Power	~			r-50% r-50%				0.698 0.500
30196C/30196 3 31252C/31248 3 31252C/31252 3 99826C/33141 3	5	0.00 0.00 0.00 0.63	0.00 0.00 0.00 0.63	6 6 2	0.00 0.00 0.42 0.00	0.0 0.0 0.4 0.0	- 2 - 0 -	-	1.000 1.000 0.363 0.391	4 5 5 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	5 5 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00)	- o	1.000 1.000 1.000 1.000
Habitat Means		0.15	0.15		0.10	0.1)	-			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer's	Power Power			Power Power					0.578 y 0.397	Power Power				er-50% er-50%		P-valu P-valu		0.698 0.500	Power Power				r-50% r-50%				0.698 0.500

x. At least one site pair ρ -value < 0.100 in opposite direction of overall tests. y Direction of difference between habital means is different chan direction of overall tests. only one site pair.

Table C-5.420. Algal Percent Cover. Totals and Seasonal Groups. Rodiak/Alaska Peninsula. Sheltered Rocky. May 1991. Overstory removed August 1990. (Continued.)

				Sand	and Muc	ı							Total	Substr	te												
ite Pair Myd	1 N	С	SE	N	0	SE	cv	D	P	N	c	SE	Ŋ	0	SE	С	v D	P	N	¢	SE	N	0	SE		CV D	P
0196C/30196 1 1252C/31248 1 1252C/31252 1 9826C/33141 1	6 6	0.00 0.00 0.00 2.08	0.00 0.00 0.00 2.08	6 6	0.00 0.42 0.00 0.00	0.00 0.42 0.00	_	- o	1.000 0.363 1.000 0.363	6 6 6	47.50 79.17 79.17 92.08	12.94 10.03 10.03 4.00	6 6	69.58 69.17 37.92 68.12	14.78 7.87 11.39 9.86	5	- + - +	0.240 0.457 0.019 0.034									
abitat Means		0.52	0.52		0.10	0.10		-			74.50	9.23		61.20	11.00		,	0.008	Power			Power	-50%		P-	value	
Fisher's Stouffer's	Power Power			Power Power					0.582 y 0.360	Power Power	0.225			r-50% r-50%		<u>D</u> -4	ralue	0.347	Power			Power	-50 %		P-	value	
0196C/30196 2 01252C/31248 2 01252C/31252 2 09826C/33141 2	4 5 5	0.00 0.00 0.00 3.33	0.00 0.00 0.00 1.24	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00) –) –	0	1.000 1.000 1.000 0.030	4 5 5 6	63.12 2.50 2.50 40.42	13.05 1.94 1.94 6.00	6 6	33.00 35.83 3.75 66.67	13.77 11.86 3.75 8.70	5		0.162 0.008 0.902 0.045									
abitat Means	Ü	0.83	0.30		0.00	0.00)	+			27.12	5,73		34.83	9.55		-						- F04		7	value	
Fisher's	Power Power	0.097 0.027		Power		0.024	P-val	uė ue	0.128	Power Power	0.176			r-50% r-50%	0.719	P-1	value value	0.009	Power Power			Powe:				value	
Stouffer's 30196C/30196 3 31252C/31248 3 31252C/31252 3 39826C/33141 3	4 5 5	0.00 0.00 0.00 22.50	0.00 0.00 0.00 8.35	4 6 6	0.00 0.00 0.42 0.00	0.00 0.00 0.40	- 2 -	0	1.000 1.000 0.363 0.063	4 5 5 4	56.88 1.00 1.00 23.75	19.80 0.61 0.61 7.25	6 6	29.38 7.50 15.42 36.25	17.86 2.76 3.13 33.79	4 2											
Habitat Means		5.62	2.10		0.10	0.1)				20.68	7.08		22.15	14.3	8	-								_	2	
Fisher's	Power			Power		0.030	P-val	ue	0.260	Power				er-50% er-50%				0.002	Power Power				r-50% r-50%			-value -value	

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

Table C-5.421. Algal Percent Cover. Totals and Seasonal Groups. Rodiak/Alaska Peninsula. Coarse Textured. May 1991. Overstory removed July 1990.

Results of statistical differences between means of control and ciled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; CV = coefficient of variation;

SE = standard error; D = direction of difference; + = control > ciled; - = control < ciled; O = control = ciled; P = probability value; Power = power to detect given difference; Power-50% = power to detect a 50% difference; dashes = insufficient data.

				Alga	l Dive	rsity Ind	dex (a)					Alga	l Taxe	Richne	s (b)						Tota	l Algae			
Site Pair M	tva	N	c	SE	N	0	SE	CV I	P	N	c	SE	N	0	SE	cv p	P	N	c	SE	N	0	82	CV D	P
13.1C/13.1 94935C/31288	1		0.00 0.06	0.06	_	0.00	0.00			1 5	0.00	0.40	2 0	0.00	0.00			1 5	0.00	1.22		0.00	0.00		
Habitat Means	3		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 Stouffer's		Power Power				2-50¥ 2-50¥		P-value P-value		Power Power			Power Power			P-value P-value		Power Power			Power Power			P-value P-value	
13.1C/13.1 94935C/31288	2		0.00	0.00	-	0.00	0.00	-		0 5	0.60	0.24		0.00	0.00			0 5	19.00	12.56	-	0.00	0.00		
Habitat Means	3		0.00	0.00		0,00	0,00				0.60	0.25		0.00	0.00				19.00	12.60		0.00	0.00	1	
Fisher's Stouffer's		Power Power				r-50% r-50%		P-value P-value		Power Power			Power Power			P-value P-value		Power Power			Power Power			P-value P-value	
13.1C/13.1 94935C/31288	3	1 4	0.00	0.00	•	0.00	0.00			1 4	0.00	0.29		0.00	0.00	_		1 4	0.00	1.20	6	0.00	0.00		
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	J	
Fisher's Stouffer's		Power Power				c-50% c-50%		P-value P-value		Power Power			Power Power			P-value P-value		Power Power		. . 	Power Power			P-value P-value	

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

a At least one site pair p-value < 0.100 in opposite direction of overall tests.</p>
y Direction of difference between habitat means is different than direction of overall tests.
Colly one site pair.

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				To	tal I	nvertebra	ates							1c							Perenz	nials (P	4)		
Site Pair	Mvd	N	С	SE	N	٥	SR	CV D	P	N	c	SE	N	0	SE	CV D	P	N	c	SE	И	0	SE	CV D	p.
13.1C/13.1 94935C/3128	1 8 1	1 5	0.00 3.00	1.46	2 0	0.00	0.00			1 5	100.00 94.50	2.78	-	100.00	0.00			1 5	0.00 1.50	1.00	•	0.00	0.00	- o -	
Habitat Mea	ıns		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 Stouffer'		Power Power				r-50% r-50%		P-value P-value		Power Power				r-50% r-50%		P-value P-value		Power Power	- -		Power-			P-value P-value	
13.1C/13.1 94935C/3128			5.50	4.29		0.00	0.00	-		0 5	56.50	17.56	5 0	100.00	0.00	-		0 5	19.00	12.56	5 0	0.00	0.00		
Habitat Mea	ans		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 Stouffer'		Power Power				r-50% r-50%		P-value P-value		Power Power				r-50% r-50%		P-value P-value		Power Power			Power -			P-value P-value	
13.1C/13.1 94935C/3128			0.00 1.25	1.25	6 0	18.33	6.60			1	100.00 95.63	1.57	6 0	81.67	6.60	- +		1 4	0.00 1.25	1.25	6 0	0.00	0.00	_	
Habitat Mea	ıns		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 Stouffer'		Power Power				r-50% r-50%		P-value P-value		Power Power				r-50% r-50%		P-value P-value		Power Power	==		Power-			P-value P-value	

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

Table C-5.421. Algal Percent Cover. Totals and Seasonal Groups. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Overstory removed July 1990. (Continued.)

				Annu	als (A)							Ephen	erals (Al	E)			_									
gite Pair Mv	4 M	C	SE	N	٥	SE	CV	D P	N	c	SE	N	٥	SE	CV D	P		N	C	SE	И	٥	SE	CV D	P	
94935C/31288 1	5	0.50	0.50	0				-	- 5	0.00	0.00	<u>-</u>		••••												
Habitat Means		0.25	0.50		0.00	0.0	D			0.00	0.00		0.00	0.00												
Fisher's Stouffer's	Power Power			Power Power			P-val						r-50% r-50%		P-value P-value			Power Power			Power- Power-			P-value P-value		
13.1C/13.1 2 94935C/31288 2		0.00	0.00		0.00	0.0	0 -			0.00	0.00	5 0	0.00	0.00												
Habitat Means		0.00	0.00		0.00	0.0	D			0.00	0.00		0.00	0.00												
Fisher's Stouffer's	Power Power			Power Power			P-val						r-50% r-50%		P-value P-value			Power Power			Power- Power-			P-value P-value		
13.1C/13.1 3 94935C/31288 3		0.00	0.63	6	0.00	0.0		0		0.00	0.00	6	0.00	0.00												
Habitat Means		0.30	0.60		0.00	0.0	٥			0.00	0.00		0.00	0.00												
Fisher's Stouffer's	Power Power			Power Power			P-val						r-50% r-50%		P-value P-value			Power Power			Power-			P-value P-value		

at least one site pair p-value < 0.120 in opposite direction of overall tests.</p>
y Direction of difference between habitet masse is different than direction of overall tests.
2 Only one site pair.

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 (Chloroph	yta				Morp	hologi	cal G	roup: B	laded Gr	e ens				Bla	ded Gr	eens (AE) (a)		
Site Pair	Mvd	N	с	SE	N	0	SE	CV D	P	N	С	SE	N	Ŷ	\$B	ÇV D	P	 1	Ç	SE	N	Ŷ	SE	CV D	P
94935C/3128			0.00	0.00		0.00	0.01	-		1 5	0.00	0.00	-	0.0 0	U. UU	- 0		 L 5	0.00	0.00	-	0.00	u.u.	_	
Habitat Mea	ns		0.00	0.00)	0.00	0.00				0.00	0.00		0.00	0.00				0.00	0.00		0.00	0.0)	
Fisher's Stouffer's		Power Power			Power Power			P-value P-value	:::	Power Power				r-50% r-50%		value value		ower ower			Power Power			P-value P-value	
13.1C/13.1 94935C/3128			0.00	0.00	_	0.00	0.00			0 5	0.00	0.00	-	0.00	0.00	-		3	0.00	0.00	5	0.00	0.0		
Habitat Mean	ns		0.00	0.00)	0.00	0.00				0.00	0.00		0.00	0.00				0,00	0.00		0.00	0.0	1	
Fisher's Stouffer's		Power Power			Power Power			P-value P-value		Power Power				r-50% r-50%		-value		ower			Power Power			P-value P-value	
13.1C/13.1 94935C/3128	3 8 3		0.00	0.00	•	0.00	0.00			1	0.00	0.00	6	0.00	0.00	- 0		l ;	0.00	0.00	6	0.00	0.0		
Habitat Mean	ns		0.00	0.00)	0.00	0.00	,			0.00	0.00		0.00	0.00				0.00	0.00		0.00	0.0)	
Fisher's Stouffer's		Power Power			Power Power			P-value P-value		Power Power				r-50% r-50%		-value -value		ower ower			Power Power			P-value P-value	

(a) Kornmennie, Monostrome, Diva and Divaria.

At least one wite 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 exite pair.

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			forpholog	ical G	roup:	Pine Fi	lament	ous	Greens			Cha	etomor	pha/R	thizocloni	Luan (At)	(a)											
Site Pair	Mvc	N	Ç	SE	N	0	SE	,	ZV D	Þ	N	С	SE	N	٥	8E	cv	D	P	и	С	SE	и	٥	SE	CV I	,	P
13.1C/13.1 94935C/3128			0.00	0.00	2	0.00	0.0	-	- 0		1 5	0.00	0,00	2 0	0.00	0.00	-	٥										
Habitat Mea	ns		0.00	0.00		0.00	0.0	0				0.00	0.00		0.00	0.00												
Fisher's Stouffer'		Power Power			Power Power				zalue zalue		Power Power				r-50% r-50%	t				Power Power			Power Power			P-value P-value		
13.1C/13.1 94935C/3128			0.00	0.00		0.00	0.0	_	-		0 5	0.00	0.00	5 0	0.00	0.00												
Habitat Mea	ns		0.00	0.00		0.00	0.0	0				0.00	0.00		0.00	0.00												
Fisher's Stouffer'		Power Power			Power Power				zalue Zalue		Power Power				r-50% r-50%	E				Power Power			Power Power			P-value P-value		
13.1C/13.1 94935C/3128			0.00	0.00	6 0	0.00	0.0	0	- 0		1	0.00	0.00	6	0.00	0.00	-	0										
Habitat Mea	ns		0.00	0.00		0.00	0.0	0				0.00	0.00		0.00	0.00												
Fisher's Stouffer'		Power Power	:::		Power Power				/alue /alue		Power Power				r-50% r-50%	I				Power Power			Power Power			P-value 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. Only one site pair.

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; 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	Phaeophy	/ta				Morp	hologi	cal G	roup: Bl	laded Br	OWDS					Alari	а вр. (А	L }		
Site Pair	Mv	d N	С	SE	N	0	SE	CV D	P	N	С	SE	N	•	SE	CV I	P	и	c	SE	N	0	SE	CV D	P
13.1C/13.1 94935C/312		1 1	0.00	1.00		0.00	0.0			1 5	0.00 1.50	1.00		0.00	0.00	- c		•	0.00	0.00	2	0.00	0.00		
Habitat Me	eans		0.75	1.00		0.00	0.0	0			0.75	1.00		0.00	0.00				0.00	0.00)	0.00	0.00		
Fisher's Stouffer		Power Power			Power Power			P-value P-value		Power Power			Power Power			P-value P-value					Power Power			P-value P-value	
13.1C/13.1 94935C/312			19.00	12.56	-	0.00		0 -		0 5	19.00	12.56	5 0	0.00	0.00			-	0.00	0.00	5 0	0.00	0.00		
Habitat Me	ans		19.00	12.60		0.00	0.0	a			19.00	12,60		0.00	0.00				0.00	0.00)	0.00	0.00		
Fisher's Stouffer		Power Power			Power Power					Power Power			Power Power			P-value P-value					Power Power			P-value P-value	
13.1C/13.1 94935C/312		3 1	0.00 1.25	1.25	•	0.00	0.0	0 - 0		1 4	0.00 1.25	1.25	-	0.00	0.00				0.00	0.00	6	0.00	0.00		
Habitat Me	eans		0.65	1.30		0.00	0.0	0			0.65	1.30		0.00	0.00				0.00	0.00)	0.00	0.00		
Fisher's Stouffer		Power Power			Power Power			P-value P-value		Power Power			Power Power			P-value P-value					Power Power			P-value P-value	

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

Table C-5.423. Page 1. March 16. 1995

				Tota	l Fu	us gardne	ri (P)					Ad	ult Fu	cus g	ardneri (P) (> 2	cm)			Juv	enile F	ricus.	gardneri	(P) (<=	2cm)	
Site Pair !	Mvd	N	С	8E	N	0	SE	c/	7 D	P	N	c	SE	N	0	SE	CV D	P	N	С	SR	И	0	SE	CV D	P
13.1C/13.1 94935C/31288	1	1 5	0.00 1.50	1.00	_	0.00	0.0	0 -	. 0		1 5	0.00 1.50	1.00	-	0.00	0.00	_		1 5	0.00	0.00	_	0.00	0.00	_	
Habitat Mean	s		0.75	1.00	ı	0.00	0.0	0				0.75	1.00		0.00	0.00				0.00	0.00		0.00	0.00		
Fisher's Stouffer's		ower				er-50% er-50%		P - v a			Power Power				r-50% r-50%		P-value P-value		Power Power				r-50% r-50%		P-value P-value	
13.1C/13.1 94935C/31288	2		19.00	12.56	-	0.00	0.0	0 -			0 5	19.00	12.56	_	0.00	0.00	-		0 5	0.00	0.00	5	0.00	0.00		
Habitat Mean	s		19.00	12.60	ı	0.00	0.0	0				19.00	12.60		0.00	0.00				0.00	0.00	1	0.00	0.00		
Fisher's Stouffer's		ower				er-50% er-50%		P- v a P- v a			Power Power				r-50% r-50%		P-value P-value		Power Power				r-50% r-50%		P-value P-value	
13.1C/13.1 94935C/31288	3 3		0.00 1.25	1.25		0.00	0.0	0 -			1 4	0.00 1.25	 1,25	•	0.00	0.00			1 4	0.00	0.00	6	0.00	0.00	-	
Habitat Mean	s		0.65	1.30		0.00	0.0	0				0.65	1.30		0.00	0.00				0.00	0.00	1	0.00	0.00		
Fisher's Stouffer's		ower				er-50% er-50%		P-va P-va			Power Power				r-50 % r-50 %		P-value P-value		Power Power				r-50% r-50%		P-value P-value	

x At least one wite pair p-value < 0.100 in opposite direction of overall tests, y Direction of difference between habitat swems is different than direction of overall tests. 2 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.)

				Puc	us St	ipes (P)	(a)			М	orphologic	cal Gr	oup:	Coarse 1	Filament	ous Br	rown	8		ж	yelophy	/cus/80	ytosiph	on (A)	(a)	
Site Pair	Mvd	N	С	SE	N	0	SE	CV D	Þ	N	С	SE	И	٥	SE	CV	D	P	и	c	SE	N	0	SE	CV D	P
13.1C/13.1 94935C/31288	1	1 5	0.00	0,00		0.00	0.00			1 5	0.00	0.00	-	0.00	0.00	-	0		1 5	0.00	0.00	~	0.00	0.00		
Habitat Mean	18		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			Power Power			P-value P-value		Power Power				r-50% r-50%		P-valu P-valu			Power Power			Power Power			P-value P-value	
13.1C/13.1 94935C/31288			0.00	0.00	_	0.00	0.00	-		0 5	0.00	0.00	•	0.00	0.00				0 5	0.00	0.00	5	0.00	0,00		
Habitat Mean	18		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			Power Power			P-value P-value		Power Power				r-50% r-50%		P-valu P-valu			Power Power			Power Power			P-value P-value	
13.1C/13.1 94935C/31288	3		0.00	0.00	•	0.00	0.00			1 4	0.00	0.00	6 0	0.00	0.00		0		1	0.00	0.00	6	0.00	0.00		
Habitat Mean	ns		0.00	0.00		0.00	0.00				0.00	0.00		0.00	0.00					0.00	0.00)	0.00	0.00	1	
Fisher's Stouffer's		Power Power			Power Power			P-value P-value		Power Power				r-50% r-50%		P-valu P-valu			Power Power			Power Power			P-value P-value	

(a) Dead Fucus plants or stipes without blades.

(a) Genera not emparated.
 x At least one wite pair p-value < 0.100 in opports direction of overall tests.
 y Direction of difference between hebitat messa is different than direction of overall tests.
 y Only one site pair.

Table C-5.423. Page 3. March 16, 1995

		Mo	orphologi	cal G	roup:	Fine F	lament	ous Brow	ns.		Fir	e Fil	ament	ous Brown	B (AE)	(b)						
Site Pair M	rd N	1	c	SE	N	0	SE	CV D	P	N	c	SE	N	٥	SE	CV	Þ	Þ		-	 	 CZX
13.1C/13.1 94935C/31288	1 1		0.00	0.00		0.00	0.00			1 5	0.00	0.00	9	0.00	0.00		0					
Habitat Means			0.00	0.00		0.00	0.00	0			0.00	0.00		0.00	0.00							
Fisher's Stouffer's		ower ower			Power Power			P-value P-value		Power Power				r-50% r-50%					Power Power		 Power-50% Power-50%	P-value P-value
13.1C/13.1 94935C/31288			0.00	0.00	_	0.00	0.0	0 -		a 5	0.00	0.00	5 0	0.00	0.00							
Habitat Means			0.00	0.00		0.00	0.0	0			0.00	0.00		0.00	0.00							
Fisher's Stouffer's		ower			Power Power			P-value P-value		Power Power				r-50% r-50%					Power Power		 Power-50% Power-50%	P-value P-value
13.1C/13.1 94935C/31288			0.00	0.00		0.00	0.0			1	0.00	0.00	6 0	0.00	0.00		0					
Habitat Means			0.00	0.00		0.00	0.0	0			0.00	0.00		0.00	0.00							
Fisher's Stouffer's		ower			Power Power			P-value P-value		Power Power				r-50% r-50%					Power Power		 Power-50% Power-50%	P-value P-value

(b) Elachista, Ectocarpus and Pilayella.

x At least one wite pair p-value < 0.180 in opposite direction of overall tests. y Direction of difference between habitat means is different then direction of overall tests. Z Only one site pair.

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; CV = coefficient of variation; Rebutto of statistical difference between means of control and offed site pairs. Evp - meter vertical drop; R = sample size, C - control mean, C = offed mean, C = control mea

					Tota	Rhodophy	/ta				Mor	pholog	ical	Group:	Bladed :	Reds				Glast	tinacese	Grava	(P) (a)		
Site Pair	Mvd n	_ c	:	ER	N	0	SE	cv b	P	N	С	SE	N	•	SE	CV D	P	- -	c	SE	N	0	SE		
13.1C/13.1 94935C/31288	1 1 8 1 5	0.		0.50	~	0.00	0.00	-		1 5	0.00	0.00		0.00	0.00	_		1	0.00		. 2	0.00	0.00	- o	Р
abitat Mear	าย	0.	25	0.50)	0.00	0.00				0.00	0.00		0.00	0.00			5	0.00	0.00				-	
Fisher's Stouffer's	Power Power					r-50%		P-value P-value		Power Power			Power	-50%		P-value P-value		Power Power			Power-			-value	
3.1C/13.1 4935C/31286		σ.	00	0.00	-	0.00	0.00			0 5	0.00	0.00	5	0.00	0.00			0				0.00	0.00	-value	
abitat Mean	1s	0.6	00	0.00		0.00	0.00				0.00	0.00		0.00	0.00			5	0.00	0.00		0.00	0.00	-	
Fisher's Stouffer's	Power Power					r-50% r-50%		P-value P-value		Power Power			Power Power			P-value P-value		Power Power			Power-	08	B	-value	
3.1C/13.1 1935C/31200	3 1	0.0		0.63	~	0.00	0.00			1 4	0.00	0.63	6	0.00	0.00	~ 0		1	0.00			0.00	0.00	-value - o	
abitat mean	16	0.3	30	0.60		0.00	0.00				0.30	0.60	-	0.00	0.00	_		4	0.00	0.00				-	
Fisher's Stouffer's	Power Power					r-50% r-50%		P-value P-value		Power Power			Power Power	-50%		P-value P-value		Power Power		0.00	Power-S			-value	

(a) Chondrus, Iridaes, Mastocarpus and Ahodoglossum. A At least one site pair p-value < 0.120 in opposite direction of overall tests. Direction of difference between habitat means is different than direction of overall fears only one site pair.

Table C-5.424. Page 1. Harch 16, 1995 Porphyra sp. (A) Morphological Group: Coarse Filamentous Reds Gloiopeltis furcata (A) Site Pair Mvd N C SE N 0 SE cv b C SR CA D P N C 0 SE CV p P 13.1C/13.1 0.00 0.00 0.00 0.00 2 94935C/31288 1 5 0.00 0.00 0 0.00 0.00 0.00 0.00 0.00 - 0 ---0.00 О 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 Stouffer's Power ---Power ... Power-50% --- P-value Power-50% P-value Power Power-50% --- P-value Power ---Power-50% --- P-value 13.1C/13.1 0.00 0.00 0.00 94935C/31288 2 0.00 ---0.00 0.00 0.00 0.00 0.00 а 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% Stouffer's --- P-value Power Power - - -Power-50% Power-50% --- Þ-value --- P-value ---Power Power-50% --- P-value Power Power-50% ---P-value ---13.1C/13.1 0.00 0.00 - ၁ 0.00 0.00 94935C/31288 3 0.00 0.00 0.63 0.63 0 0.00 0.00 - 0 ---0.00 0.00 ---0.00 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 Stouffer's Power . . . Power Power-50% Power-50% --- P-value --- P-value ---Power Power-50% P-value Power Power-509

x At least one site pair p-value < 0.100 in opposite direction of 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. Algal Percent Cover. Rhodophyta. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Overstory removed July 1990. (Continued.)

			Ne	orhod	omela/	Rhodomel	a (P) (a)				Odon	thali	a floccos	a (P)				Mo	rpholog	ical G	roup: S	accate	Reds	
Site Pair	Mvd	N I	c	s e	Ŋ	0	5 2	CV D	P	И	c	SR	N	٥	SE	CV D	P	N	c	SE	И	0	SE	CA D	P
13.1C/13.1 94935C/31288	1 8 1	1 5	0.00	0.00	-	0.00	0.00	-		1 5	0.00	0.00	~	0.00	0.00	- o -		2	0.00 0.00	0.00	2	0.00	0.00		
Habitat Mean	ns		0.00	0.00		0.00	0.00				0.00	0.00		0.00	0.00				0.00	0.00)	0.00	0.00	I	
Fisher's Stouffer's		Power Power			Power Power			P-value P-value		Power Power			Power Power			-value -value		10.01			Power Power			P-value P-value	
13.1C/13.1 94935C/31288	2 8 2		0.00	D.00	_	0.00	0.00	-		0 5	0.00	0.00		0.00	0.00	-			0.00	0.00		0.00	0.00		
Habitat Mean	ns		0.00	0.00		0.00	0.00				0.00	0.00		0.00	0.00				0.00	0.00)	0.00	0.00	ļi.	
Fisher's Stouffer's		Power Power			Power Power			P-value P-value		Power Power			Power Power			-value -value		10-01			Power Power			P-value P-value	
13.1C/13.1 94935C/31288	3 8 3		0.00	0.00	•	0.00	0.00			1 4	0.00	0.00	•	0.00	0.00	- o -		•	0.00	0.00	6	0.00	0.00	-	
Habitat Mean	ns		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			Power Power			P-value P-value		Power Power			Power Power			-value -value					Power Power			P-value P-value	

(s) Genera not separated.

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

Table C-5.424. Page 3. Harch 16, 1995

			Halos	accion	glandif	orme (A	1			Morpholo	gical	Group:	Fine 1	Filament	ous Reds			Po	lysipho:	nia/Pt	erosipho	nia (A)	(a)	
Site Pair My	7d N	c	SE	N	٥	SE	cv	D P	N	С	SE	N	0	SE	CV p	P	N	c	SE	N	٥	SE	CV D	P
13.1C/13.1 1 94935C/31288 1	1 1 5	0.00	0.00	-	0.00	0.00		o	-	0.00 0.50	0.50	2 0	0.00	0.00			1 5	0.00	0.50	-	0.00	0.00		
Habitat Means		0.00	0.00		0.00	0.00				0.25	0.50		0.00	0.00				0.25	0.50		0.00	0.00		
Fisher's Stouffer's	Power Power			Power Power			P-valu P-valu					Power Power			P-value P-value		Power Power			Power Power			P-value P-value	
13.1C/13.1 2 94935C/31288 2	2 0 2 5	0.00	0.00	_	0.00	0.00			-	0.00	0.00	5 0	0.00	0.00			0 5	0.00	0.00	5 0	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 Stouffer's	Power Power			Power Power			P-valu P-valu					Power Power			P-value P-value		Power Power			Power Power			P-value P-value	
13.1C/13.1 3 94935C/31288 3	3 1 3 4	0.00	0.00		0.00	0.00		0	-	0.00	0.00	€ 0	0.00	0.00			1 4	0.00	0.00	6 0	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 Stouffer's	Power Power			Power Power			P-valu P-valu		10401			Power Power			P-value P-value		Power Power			Power Power			P-value P-value	:::

(a) Genera not expersion.
 x At least one site pair p-value < 0.100 in opposite direction of 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. Algal Percent Cover. Invertebrates. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Overstory removed July 1990.

Results of statistical differences between means of control and ciled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = ciled mean; CV = coefficient of variation;

SE = standard error; D = direction of difference; + = control > ciled; - = control < ciled; P = probability value; Power = power to detect given difference; Power-50% = power to detect a 50% difference; dashes = insufficient data.

					Bala	nomorpha	ı						M	ytilus							Litto	rinidae			
Site Pair M	vd I	N	¢	82	N	0	SE	CV D	P	N	С	SE	N	0	SE	CV D	P	N	С	SE	N	0	82	CV D	P
13.1C/13.1 94935C/31288	1 :		0.00 3.00	1.46	2 0	0.00	0.00			1 5	0.00 0.00	0.00	-	0.00	0.00	- o -		1 5	0.00 0.00	0.00		0.00	0.00		
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 Stouffer's		ower ower			Power Power			P-value P-value		Power Power				r-50% r-50%		P-value P-value		Power Power			Power- Power-			P-value P-value	
13.1C/13.1 94935C/31288	2 9		4.50	3.91	-	0.00	0.00			0 5	0.00	0.00	5 0	0.00	0.00			0 5	1.00	0.61	-	0.00	0.00		
Habitat Means			4.50	3.90		0.00	0.00	0			0.00	0.00		0.00	0.00				1.00	0.60		0.00	0.00		
Fisher's Stouffer's		ower ower			Power Power			P-value P-value		Power Power				r-50% r-50%		P-value P-value					Power- Power-			P-value P-value	
13.1C/13.1 94935C/31288	3 :		0.00 1.25	1.25		12.92	5.14			1 4	0.00	0.00	6 0	2.08	2.08			1 4	0.00	0.00	-	3.33	1.67		
Habitat Means			0.65	1.30		12.90	5.10	0			0.00	0.00		2.10	2.10				0.00	0.00		3.30	1.70		
Fisher's Stouffer's		ower ower			Power Power			P-value P-value		Power Power				r-50% r-50%		P-value P-value					Power-			P-value P-value	

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

Table C-5.426. Algal Percent Cover. Substrates. Kodiak/Alaeka 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; 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% =

		_					Rock								Mud								Sand			
Site Pai:	r l	MAq	N	c	SE	N	0	SE	CV D	P	N	C	SE	N	0	82	CV D	P	N	C	SE	N	•	SE	CV D	
13.1C/13 94935C/3		1		00.00 94.50	2.78	2 0	100.00	0,00			1 5	0.00 0.00	0.00	2 0	0.00	0.00	- o		1 5	0.00	0.00		0.00	0.0	0 - 0	
Habitat 1	Mean	s		97.25	2.80		100.00	0.00				0.00	0.00		0.00	0.00				0.00	0.00		0.00	0.0	0	
Fisher Stouff			ower ower				r-50% r-50%		P-value P-value		Power Power				r-50% r-50%		P-value P-value		Power Power			Power Power			P-value P-value	
13.1C/13 94935C/3				56.50	17.56		100.00	0.00	:		0 5	0.00	0.00	5 0	0.00	0.00	:		0 5	19.00	19.00	5	0.00	0.0		
Habitat 1	Means	ŝ		56.50	17.60		100.00	0.00				0.00	0.00		0.00	0.00				19.00	19.00		0.00	0.0	0	
fisher Stouffe			ower				r-50% r-50%		-value -value		Power Power				r-50% r-50%		P-value P-value		Power Power			Power Power			P-value P-value	
13.1C/13 94935C/3				00.00 95.63	1.57		81.67	6.60			1 4	0.00	0.00	6	0.00	0.00	- 0		1 4	0.00	0.63	6	0.00	0.0		
Habitat B	Means	3		97.80	1.60		81.70	6.60				0.00	0.00		0.00	0.00			-	0.30	0.60		0.00	0.0		
Fisher Stouffe			ower ower				r-50% r-50%		-value -value		Power Power				r-50% r-50%		-value -value		Power Power			Power Power	-50%		P-value P-value	

At least one mite pair p-value < 0.100 in opposite direction of overall tests, y Direction of difference between pahiter means is different than direction of overall tests. S Only one size pair.

Table C-5.426, Page 1. March 16, 1995

																								, 2332
				Shell	Fragmen	ts					Fi	lamen	tous Dia	toms						San	d and Mud	ı		
Site Pair Mvd	l N	c	SE	N	0	SE	CV D	P	N	Ċ	SR	N	٥	SE	CV D	Þ	<u>и</u>	С	SE	N	0	SE	CV D	P
13.1C/13.1 1 94935C/31268 1	1 \$	0.00	0.50	2	0.00	0.00	- 0		1 5	0.00	0.00		0.00	0.00	- 0			0.00	0.50	2	0.00	0.00		
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		
	Power Power			Power Power	-50% -50%		P-value P-value		Power Power			Power Power			-value -value		10401				r-50% r-50%	j	P-value P-value	
13.1C/13.1 2 94935C/31288 2		0.00	0.00	5	0.00	0.00	-		0 5	0.00	9.00	5 0	0.00	0.00				19.00	19.00	- 5) 0	0.00	0.00		
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		
	Power Power			Power Power	-50% -50%		P-value P-value		Power Power			Power Power			value value		10401			Power	r-50% r-50%		P-value P-value	
13.1C/13.1 3 94935C/31288 3	1	0.00	0.63	•	0.00	0.00			1	0.00	0.00		0.00	0.00	- 0		-	0.00	0.72	- 6	0.00	0.00	- 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		
	Power Power			Power Power			P-value P-value	 	Power Power			Power Power			-value		10001			Power	c-50%]	P-value P-value	

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

Total Substrate

					Dan B 01 4.																			
Site Pair 1	Mvd N	С	SE	И	0	88	CV D	P	N	С	SE	N	> 8	H	CV D	P	N	c	6 E	N	٥	SE	cv :	P
13.1C/13.1 94935C/31288		100.00 95.00	2.37		100.00	0.00	- 0																	
Habitat Mean	9	97.50	2,40		100.00	0.00	l																	
Fisher's Stouffer's	Powe Powe			Power Power			P-value P-value		Power Power			Power-50 Power-50			P-value P-value		Power Power			Power Power			P-valu P-valu	
13.1C/13.1 94935C/31288		75.50	13. 43		100.00		- -																	
Habitat Mean	s	75.50	13.40		100.00	0.00	ŀ																	
Fisher's Stouffer's	Powe Powe			Power			P-value P-value		Power Power			Power-50 Power-50			P-value P-value		Power Power			Power Power			P-valu P-valu	
13.1C/13.1 94935C/31288	3 1 3 4	100.00 96.88	1.20	6 0	81.67		- +																	
Habitat Mean:	S	98.45	1.20		81.70	6.60	•																	
Fisher's Stouffer's	Powe Powe			Power Power			P-value P-value		Power Power			Power-50 Power-50			P-value P-value		Power Power			Power Power			P-valu P-valu	

 $[\]kappa$ At least one site pair p-value < 0.100 in opposite direction of overall tests. y Direction of difference between habitat means is different than direction of overall tests. S only one site pair.

Table C-5.426. Page 3. Harch 16, 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 = cited mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > cited; - = control = cited; P = probability value; Power = power to detect given difference; Power-50% = control = cited; P = probability value; Power = power to detect given difference; Power-50% = control = cited; P = probability value; Power = power to detect given difference; Power-50% = control = cited; P = probability value; Power = power to detect given difference; Power-50% = control = cited; P = probability value; Power = power to detect given difference; Power-50% = control = cited; P = probability value; Power = power to detect given difference; Power-50% = control = cited; P = probability value; Power = power to detect given difference; Power-50% = control = cited; P = probability value; Power = power to detect given difference; Power-50% = control = cited; P = probability value; Power = power to detect given difference; Power-50% = control = cited; P = control = cited; P = control = cited; P = control = cited; P = control = cited; P = control = cited; P = control = cited; P = control = cited; P = power to detect a 50% difference; dashes = insufficient data.

			Alga	l Dive	raity Ind	lex (a)					λlga	l Tax	a Richne	ss (b)						Tota	l Algae			
Site Pair My	Aq M	c	62	Ņ	P	SE	CV D	P	'n	С	SE	Ņ	0	SK	CV D	P	N	c	SE	N	٥	SE	ev n	P
13.1C/13.1 1 94935C/31288 1	1 U	0.00	0.0	0 0	V.VU		: :		u 5	0.40	0.24	0	U.UU 				-	1.50	1.00	•	U.uu 		: :	
Habitat Means		0.00	0.0)	0.00					0.40	0.25		0.00					1.50	1.00		0.00	-	-	
Fisher's Stouffer's	Power Power			Power Power			P-value P-value		Power Power				r-50% r-50%		P-value P-value					Power-			P-value P-value	
13.1C/13.1 2 94935C/31288 2	2 0 2 4	0.00	0.0	1 0	0.00				0 4	0.50	0.29	•	0.00		-			13.75	8.51	-	0.00			
Habitat Means		0.00	0.0)	0.00					0.50	0.29		0.00					13.80	8.50		0.00	_		
Fisher's Stouffer's	Power Power			Power			P-value P-value		Power Power				r-50% r-50%		P-value P-value					Power-			P-value P-value	
13.1C/13.1 3 94935C/31288 3	3 0 3 3	0.02	0.02	4 2 0	0.00	0.00) - · -		0	0.67	0.67	•	0.00	0.00			•	31.67	31.67	•	0.00	0.0		
Habitat Means		0.02	0.00	2	0.00	0.00	1			0.67	0.67		0.00	0.00				31.70	31.70		0.00	0.0	3	
Fisher's Stouffer's	Power Power			Power Power			P-value P-value		Power Power				r-50% r-50%		P-value P-value					Power-			P-value P-value	

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

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

y Direction of difference between habitat mesne is different than direction of overall tes

Only one site pair	r.			311 L 41 411	Chair direct	ION OI SVOIZI															Table		Page Marc	
				otal I	nvertebr	ates							Rock							.erenn	1_1_ (P	į		
Site Pair Mv	d N	C	SR	N	٥	SE	מיים	P	N	מ	SR	И	Ω	sr	מ יצים	P	N	C	SE	N	n	SR	CV n	Þ
94935C/31288 1	. 5	4.00	2.3	2 0			-		5	94.50	2.15	0			-		5	1.50	1.00	0				
Habitat Means		4.00	2.3	D	0.00					94.50	2.20		100.00					1.50	1.00	,	0.00		-	
Fisher's Stouffer's	Powe Powe			Powe:	r-50% r-50%		-value -value		Power Power			Power Power			P-value P-value		Power Power			Power-			P-value P-value	
3.1C/13.1 2 4935C/31288 2		11.88		- 1 3 0	0.00				0 4	67.50	13.03		100.00		:		0 4	13.75	8.51	-	0.00			
labitat Means		11.90	5.6	0	0.00					67.50	13.00		100.00					13.00	8.50		0.00			
Fisher's Stouffer's	Powe Powe			Powe:	r-50% r-50%	P			Power Power			Power Power			P-value P-value		Power Power			Power-			P-value P-value	
3.1C/13.1 3 4935C/31288 3		0.83		- 4 3 0	5.63	3.29			9	60.83	28.66	•	94.38	3.29			0 3	30.03	30.83	4	0.00	0.00		
Habitat Means		0.80	0.8	D	5.60	3.30				60.80	28.70		94.40	3.30				30.80	30.80		0.00	0.00	Ď	
Fisher's Stouffer's	Powe Powe			Powe:	r-50% r-50%	P			Power Power			Power Power			P-value P-value	:::	Power Power			Power- Power-			P-value P-value	

x At least one mite pair p-value < 0.100 in opposite direction of overall teets.</p>
y Direction of difference between habitat means is different than direction of overall teets.
2 Only one site pair.

Table C-5.427. Algal Percent Cover. Totals and Seasonal Groups. Rodiak/Alaska Peninsula. Coarse Textured. May 1991. Overstory removed September 1990. (Continued.)

					Ann	uals (A)							Ephem	erals (A	B)										
Site Pair	Mvd	N	c	SE	И	٥	SE	cv	D P	N	c	6 R	N	0	SE	CA D	P	И	С	SE	N	٥	SE	CV D	P
13.1C/13.1 94935C/31288	1 8 1		0,00	0.00	•	0.00					0.00	0.00	_	0.00		-									
Habitat Mean	ns.		0.00	0.00		0.00	-	~			0.00	0.00		0.00											
Fisher's Stouffer's		Power Power				r-50% r-50%		P-valu P-valu					Power Power			P-value P-value		Power Power		 	Power Power			P-value P-value	
13.1C/13.1 94935C/31288			0.00	0.00		0.00				-	0.00	0.00	1 0	0.00		-									
Habitat Mean	ns		6.00	0.00		0.00	-	-			0.00	0.00		0.00											
Fisher's Stouffer's		Power Power				r-50% r-50%		P-valu P-valu					Power Power			P-value P-value		Power Power			Power Power			P-value P-value	
13.1C/13.1 94935C/31288			0.83	0.83		0.00		0 -		-	0.00	0.00	4 0	0.00	0.00	-									
Habitat Mean	ns		0.80	0.80		0.00	0.0	0			0.00	0.00		0.00	0.00										
Fisher's Stouffer's		Power Power				r-50% r-50%							Power Power			P-value P-value		Power Power			Power Power			P-value P-value	

Table C-5.427. Page 3. March 16, 1995

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

y Direction of difference between habitat means is different then direction of overall Peers
only one site pair.

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; O = control = oiled; P = probability value; Power = power to detect given difference; Power-50% = power to detect a 50% difference; dashes = insufficient data.

				1	otal	Chloroph	yta				Morph	hologi	cal Gr	oup: B	laded G	L 0 6D E					Bla	ded Gr	ens (AB) (a)		
Site Pair Mv	rd N		c	8 2	N	0	SE	CV D	P	N	c	SE	И	٥	88	ÇV	Q	P	N	C	SE	N	0	SE	CV D	P
13.1C/13.1 1 94935C/31200 1	. D	0	.00	0.00		0.00		:		0 5	0.00	0.00	•	0.00	-				0 5	0.00	0.00	ō	0.00		-	
Habitat Means		0	.00	0.00		0.00					0.00	0.00		0.00	-	-				0.00	0.00		0.00			
Fisher's Stouffer's	Powe				Power			P-value P-value		Power Power			Power Power			P-va P-va			Power Power			Power Power			P-value P-value	
13.1C/13.1 2 94935C/31288 2		0	.00	0.00	•	0.00		-		0 4	0.00	0.00	-	0.00		: :			0 4	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			
Fisher's Stouffer's	Powe					r-50% r-50%		P-value P-value		Power Power			Power Power			P-va P-va			Power Power			Power Power			P-value P-value	
13.1C/13.1 3 94935C/31288 3	3 0	D	.00	0.00	•	0.00	0.00			0 3	0.00	0.00		0.00	0.0				3	0.00	0.00	-	0.00	0.00		
Habitat Means		0	.00	0.00	1	0.00	0.00	>			0.00	0.00		0.00	0.0	0				0,00	0.00	•	0.00	0.00)	
Fisher's Stouffer's	Powe					c-50% c-50%		P-value P-value	::-	Power Power			Power Power			P-va P-va			Power Power			Power Power			P-value P-value	

(a) Kornmannia, Monostroma, Ulva and Ulvaria.

a At least one site pair p-value < 0.180 in opposite direction of overell tests.

y Olzation of difference between habitst means is different than direction of overell tests.

2 Only one site pair.

Table C-5.420. Page 1. March 16, 1995

		м	orphologi	cal G	roup:	Fine F	ilament	ous G	ceeps			Cha	etomor	pha/Rh	itoclon	Luna (A.)	(a)									
Site Pair M	1vd	N	С	SE	и	0	82	CV.	D	P	И	c	SE	И	٥	SE	CV D	P	N	c	SE	N	0	SE	CV D	Þ
13.1C/13.1 94935C/31268	1		0.00	0.00	•	0.00		: :			0 5	0.00	0.00	_	0.00		-									
Habitat Means	3		0.00	0.00		0.00	-	-				0.00	0.00		0.00											
Fisher's Stouffer's		ower				r-50% r-50%					Power Power			Power Power			P-value P-value		Power Power			Power Power			P-value P-value	
13.1C/13.1 94935C/31288			0.00	0.00	-	0.00					0 4	0.00	0.00	-	0.00		-									
Habitat Means	s		0.00	0.00		0.00	-	-				0.00	0.00		0.00											
Fisher's Stouffer's		ower				r-50% r-50%		P-val P-val			Power Power			Power Power			P-value P-value		Power Power			Power Power			P-value P-value	
13.1C/13.1 94935C/31288			0.00	0.00		0.00	0.0	0 -			0 3	0.00	0.00	4 0	0.00	0.00										
Habitat Means	£.		0.00	0.00		0.00	0.0	0				0.00	0.00		0.00	0.00										
Fisher's Stouffer's		ower				r-50% r-50%		P-val P-val			Power Power			Power Power			P-value P-value		Power Power			Power Power			P-value P-value	

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

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; CV = coefficient of variation;

SE = standard error; D = direction of difference; + = control > oiled; - = control > oiled; P = probability value; Power = power to detect given difference; Power-50% = power to detect a 50% difference; dashes = insufficient data.

				•	Total	Phaeophy	ta				Morg	hologi	cal G	roup: B	laded Br	OWDS					Alari	a sp. (J	.)		
Site Pair	Mvd	N	С	SE	N	٥	SE	CA D	P	N	c	SE	N	0	SE	CV D	P	И	C	SE	N	۰	SE	CV D	P
13.1C/13.1 94935C/3128	1 8 1		1.50	1.00	_	0.00		-		0 5	1.50	1.00	1	0.00				0 5	0.00	0.00		0.00			
Habitat Mea	ns		1.50	1.00		0.00	-				1.50	1.00		0.00					0.00	0.00)	0.00		-	
Fisher's Stouffer'	s	Power Power			Power Power			P-value P-value		Power Power				r-50% r-50%		P-value P-value		Power Power			Power Power			P-value P-value	
13.1C/13.1 94935C/3128			13.75	8.51	-	0.00		 		0 4	13.75	8.51	•	0.00		-		0 4	0.00	0.00	•	0.00			
Habitat Mea	ns		13.80	8.50		0.00		-			13.80	8.50		0.00					0.00	0.00	3	0.00	-	-	
Fisher's Stouffer'	s	Power Power			Power Power			P-value P-value		Power Power				r-50% r-50%		P-value P-value		Power Power			Power Power			P-value P-value	
13.1C/13.1 94935C/3128	3 8 3		31.67	31.67	•	0.00	0.0			0 3	30.83	30.83		0.00	0.00			3	0.00	a. o c	•	0.00	0.0		
Habitat Mea	ns		31.70	31.70		0.00	0.0	,			30.80	30.80		0.00	0.00				0.00	0.00)	0.00	0.0	۵	
Fisher's Stouffer'	s	Power Power			Power Power			P-value P-value		Power Power				r-50% r-50%		P-value P-value		Power Power			Power Power			P-value P-value	

x A: least one site pair p-value < 0.180 in opposite direction of overall tests.</p>
y Direction of difference between habitat means is different than direction of overall tests.
5 Only one site pair.

Table C-5.429. Page 1. March 16, 1995

					Total	Fucu	s gardne	eri (P)					Ad	lult Pu	cus g	ardneri (P) (>	2 cm)				Juv	enile P	ucus g	ardneri	(P) (<	2cm)	
Site Pair	Myd	N	c		SE	N	0	SE	C	V D	P	N	С	SE	N	0	SE	cv	D	P	N	С	SE	И	۰	SE	CA D	Þ
13.1C/13.1 94935C/3128			1.50		1.00	-	0.00		-			0 5	1.50	1.00		0.00					0 5	0.00	0.00	•	0.00	-		
Habitat Mea	ıns		1.50	1	1.00		0.00		-				1.50	1.00		0.00	-	-				0.00	0.00	1	0.00	-	-	
Fisher's Stouffer'	s	Power Power				Power Power				alue alue		Power Power				r-50% r-50%		P-va P-va			Power Power			Power Power	-50% -50%		P-value P-value	
13.1C/13.1 94935C/3128			13.75		6.51		0.00		-			0 4	13.12	8.38	•	0.00					0 4	0.63	0.63	-	0.00			
Habitat Mea	រោទ		13.80	1	8.50		0.00		-				13.10	8.40		0.00	-	-				0.60	0.60	1	0.00	-	-	
Fisher's Stouffer'		Power Power				Power Power				alue alue		Power Power				r-50% r-50%		P-va P-va			Power Power			Power Power			P-value P-value	
13.1C/13.1 94935C/3128			30.83		 30.83	4 0	0.00	0.0	00			0 3	30. a 3	30.83	4 0	0.00	0.0				0	0.00	0.00		0.00	0.0		
Habitat Mea	រោទ		30,00	ì	30.80		0.00	0.0	O O				30.80	30.80		0.00	0.0	0				0.00	0.00	ı	0.00	0.0	o	
Fisher's Stouffer'	s	Power Power				Power Power				alue alue		Power Power				r-50% r-50%		P-va P-va			Power Power				-50% -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. 2 Only one site pair.

Table C-5.429. Algal Percent Cover. Phaeophyta. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Overstory removed September 1990. (Continued.)

				Fuc	us Sti	Pes (P)	(a)				Me	orpholog	ical Gr	oup	Coarse I	ilamen'	tous Brow	m#			yeloph	ycus/s	cytosiph	on (A)	(a)	
Site Pair Mv	d N	Ç	s	E	N	0	SE	c	V D	P	N	C	SE	N	٥	SE	CV D	P	N	c	62	N	0	SE	CV D	P
13.10/13.1 1 949350/31288 1	. u . 5	0.00		0.00	0	U.UU 			-		ս 5	0.00	0.00		u.uu 				u 5	0.00	0.00	*	U.UU 			
Habitat Means		0.00		0.00		0.00						0.00	0.00		0.00					0.00	0.00)	0.00	-	-	
Fisher's Stouffer's	Power				Power-				alue alue		Power Power				r-50% r-50%		P-value P-value		Power Power			Power Power			P-value P-value	
13.1C/13.1 2 24935C/31288 2	2 0	0.00		0.00	1 0	0.00		- <i>-</i>			0 4	0.00	0.00	-	0.00				0 4	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	-	-	
Fisher's Stouffer's	Power Power				Power-				alue alue		Power Power				r-50% r-50%		P-value P-value		Power Power			Power Power			P-value P-value	
13.1C/13.1 3 94935C/31200 3	3 3	0.00		 a.00	4 0	0.00	0.0	00			0	0.83	0.83	4 0	0.00	0.00			0 3	0.83	0.83		0.00		0 -	
Habitat Means		0.00		0.00		0.00	0.0	00				0.80	0.80		0.00	0.00				0.80	0.80)	0.00	0.0	0	
Fisher's Stouffer's	Powe:				Power-				alue alue		Power Power				r-50% r-50%		P-value P-value		Power Power			Power Power	-50% -50%		P-value P-value	

(a) Dead Fucus plants or stipes without blades.

(a) Genera not esparated.
 x At least one site pair p-value < 0.190 in opposite direction of overall tests.
 y Direction of difference between habitat means is different than direction of overall tests.
 2 Only one site pair.

Table C-5.429. Page 3. March 16, 1995

		,	forpholog	ical 6	roup:	Fine F	ilamen	cous Brow	ms		Pi	ne Fil	ament	ous Brown	s (AE)	(b)									
Site Pair	Mvd	N	С	SE	N	0	SE	CV D	P	N	С	SE	N	۰	SE	CV D	P	N	¢	SE	N	0	SŘ	CV I	9 P
13.1C/13.1 94935C/3128			0.00	0.00		0.00				0 5	0.00	0.00	**	0.00		-								•	
Habitat Mean	ns		0.00	0.00		0.00	-	-			0.00	0.00		0.00											
Fisher's Stouffer's		Power Power			Power Power			P-value P-value		Power Power				r-50% r-50%		P-value P-value		Power Power			Power- Power-			P-value P-value	
13.1C/13.1 94935C/31288			0.00	0.00	-	0.00				0 4	0.00	0.00	-	0.00		-									
Habitat Mean	ns		0.00	0.00		0.00	-	-			0.00	0.00		0.00											
Fisher's Stouffer's		Power Power			Power Power			P-value P-value		Power Power				r-50% r-50%		P-value P-value		Power Power			Power-			P-value P-value	
13.1C/13.1 94935C/3128			0.00	0.00	•	0.00		0 -		0	0.00	0.00	4 0	0.00	0.00										
Habitat Mean	ns		0.00	0.00		0.00	0.0	0			0.00	0.00		0.00	0.00										
Fisher's Stouffer's		Power Power			Power Power			P-value P-value		Power Power				r-50% r-50%		P-value P-value		Power Power			Power-			P-value 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; 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 1	Rhodophy	rta				Mor	pholog	ical G	roup: 1	Bladed H	Reds				Gigar	inacea	e Group	(P) (a	1)	
Site Pair 1	Mvd	N	С	SE	N	٥	SE	CV D	P	N	c	SE	N	٥	SE	CV D	P	N	С	SE	И	٥	SE	CV D	P
13.1C/13.1 94935C/31288	1		0.00	0.00		0.00		-		0 5	0.00	0.00	_	0.00				0 5	0.00	0.00	ō	0.00			
Habitat Mean:	ıs		0.00	0.00		0.00					0.00	0.00		0.00					0.00	0.00		0.00	-	-	
Fisher's Stouffer's		Power Power			Power Power			P-value P-value		Power Power			Power Power			P-value P-value		Power Power			Power-			P-value P-value	
13.1C/13.1 94935C/31288			0.00	0.00		0.00		- -		0 4	0.00	0.00		0.00		:		0 4	0.00	0.00	-	0.00			
Habitat Mean	18		0.00	0.00		0.00					0.00	0.00		0.00					0.00	0.00	•	0.00	-	-	
Fisher's Stouffer's		Power Power			Power			P-value P-value		Power Power			Power Power			P-value P-value		Power Power			Power Power			P-value P-value	
13.1C/13.1 94935C/31288		0 3	0.00	0.00		0.00	0.00			0 3	0.00	0.00	-	0.00	0.00			0 3	0.00	0.00	•	0.00	0.0	0 -	
Habitat Mean	ıs		0.00	0.00		D.00	0.00)			0.00	0,00		0.00	0.00	l .			0.00	0.00	1	0.00	0.0	0	
Fisher's Stouffer's		Power Power			Power Power			P-value P-value		Power Power			Power Power			P-value P-valu e		Power Power			Power Power			P-value P-value	

(a) Chondrum, Iridama, Mastocarpus and Bhodoglosmum.

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

**y Direction of difference between habitst change is different than direction of overall tests.

**Sonly one site pair. Table C-5.430. Page 1. March 16, 1995

				Porphy	ra sp. ((A)			1	orpholog:	ical G	roup:	Coarse	Filamer	tous Rec	le			G1o:	lopelti	s furca	ta (A)		
Site Pair Mv	d N	С	SE	N	0	SE	CV D	P	N	С	s r	И	٥	SE	CV D	P	N	С	SE	N	0	SE	CV D	P
13.1C/13.1 1 94935C/31288 1		0.00	0.00	-	0.00		-		0 5	0.00	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			
Fisher's Stouffer's	Power Power			Power Power			P-value P-value		Power Power			Power Power			P-value P-value		Power Power	::		Power Power			P-value P-value	•••
13.1C/13.1 2 94935C/31288 2	0 4	0.00	0.00	-	0.00		-		0 4	0.00	0.00	_	0.00		-		0 4	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		•	
Fisher's Stouffer's	Power Power			Power			P-value P-value		Power Power			Power Power			P-value P-value		Power Power			Power Power			P-value P-value	
13.1C/13.1 3 94935C/31288 3	0	0.00	0.00		0.00	0.00			0 3	0.00	0.00		0.00	0.00			3	0.00	0.00	4 0	0.00	0.00		
Habitat Means		0.00	0.00	0	0.00	0,00				0.00	0.00		0.00	0.00)			0.00	0.00		0.00	0.00	0	
Fisher's Stouffer's	Power Power			Power Power			P-value P-value		Power Power			Power Power			P-value P-value		Power Power			Power Power	-50% -50%		P-value P-value	

K 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-5.430. Algal Percent Cover. Rhodophyta. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Overstory removed September 1990. (Continued.)

			N	orhoo	lomel a	/Rhodomel	.a (P)	(a)				Odon	thali	a flocco	sa (P)			Моз	rpholog	rical (Foup: 8	iaccat a	Bada	
ite Pair	Mvd	N	С	SE	N	٥	SE	מ עט	P	N	c	SE	N	٥	SE	CV D	 - 	С	SE	N	0	SE	CV D	
3.1C/13.1 4935C/31288	1		0.00	0.00	-	0.00		· ·		0 5	0.00	0.00	-	0.00		-	 0	0.00		-	0.00	-		P
abitat Mean	ıs		0.00	0.00	}	0.00	-	-			0.00	0.00		0.00			 5	0.00	0.00		0.00	-		
Fisher's Stouffer's		Power Power				r-50% r-50%		P-value P-value		Power Power			Power			P-value P-value	 Power Power			Power	7-50% 7-50%		P-value	
3.1C/13.1 4935C/31288		0 4	0.00	0.00	-	0.00				0	0.00	0.00	1	0.00			 0			1	0.00		P-value	
abitat Mean	ıs		0.00	0.00)	0.00	-	-			0.00	0.00	_	0.00			 4	0.00	0.00		0.00	-		
Fisher's Stouffer's		Power Power			Power Power	-50% -50%		P-value P-value		Power Power			Power Power			P-value P-value	 Power Power				50€		P-value	
1935C/31288			0.00	0.00	•	0.00	0.0	-		0 3	0.00	0.00	4	0.00	0.00	-	 0	0.00		4	0.00	0.0	P-value	
abitat Mean	8		0.00	0.00		0.00	0.0	0			0.00	0.00		0.00	0.00		,	0.00	0.00		0.00	- ·		
Fisher's Stouffer's		Power Power			Power	-50% -50%		P-value P-value		Power Power			Power Power			P-value P-value	 Power Power			Power	-50%		P-value P-value	

(a) Genera not separated.

K A: least one site pair problem < 0.100 in opposite direction of overall tests, y Direction of difference between habitat means is different than direction of overall tests only one site pair.</p>

Table C-5.430, Page 3, Herch 16, 1995

			Halos	accion	glandif	orme (A	.)			Morpholo	gical	Group	: Fine	Filamer	tous Re	le.		Po	?veinh	onte/Pt.	emant ab	onia (A)		
Site Pair Mv	rd N	c	SE	N	٥	SE	CV D	P	N		SE	N	0		CV D		– –		SE	N N	0	SE (A)	CV D	
13.1C/13.1 1 94935C/31286 1	1 0 1 5	0.00	0.0	-	0.00				0 5	0.00	0.00	1 0	0.00	-						- 1	0.00			P
Habitat Means		0.00	0.0	0	0.00					0.00	0.00		0.00	_			- 5	0.00	0.00	0 0	0.00			
Fisher's Stouffer's	Power Power				r-50% r-50%		P-value P-value		Power Power			Power			P-value P-value		FOWEI		-	Power-	-50 %		P-value P-value	
4935C/31288 2	2 0	0.00	0.00	•	0.00		- -		0 4	0.00	0.00	•	0.00		-		- 0	0.00	0.00	- 1	0.00			
Habitat Means		0.00	0.00		0.00					0.00	0.00		0.00				4	0.00	0.00		0.00			
Fisher's Stouffer's	Power Power			Power Power	c-50% c-50%		P-value P-value		Power Power			Power Power			P-value P-value		10401			Power-			P-value P-value	
4935C/31288 3	3	0.00	0.00		0.00	0.00		:::	0 3	0.00	0.00	4 0	0.00	0.00	- -			0.00	0.00	4	0.00	0.00) -	
Habitat Means Fisher's	P	0.00	0.00		0.00	0.00				0.00	0.00		0.00	0.00			•	0.00	0.00		0.00	0.00		
Stouffer's	Power Power			Power	-50% -50%		P-value P-value		Power Power			Power Power			P-value P-value		FOWGI			Power-			P-value	

(s) Genera not separated. x At least one site pair p-value < 0.100 in opposite direction of 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. 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.

					Bala	nomorpha	L						M)	rtilus							Litto	rinidae			
Site Pair 1	Mvd	И	С	SE	N	٥	SE	CV D	P	N	С	82	И	0	SE	CV D	P	N	С	SE	N	0	SE	CV D	P
13.1C/13.1 94935C/31288	1		4.00	2.32	-	0.00	_			0 5	0.00	0,00	-	0.00				0 5	0.00	0.00	-	0.00	-:		
Habitat Mean	s		4.00	2.30		0.00	-	-			0.00	0.00		0.00					0.00	0.00		0.00			
Fisher's Stouffer's		Power Power			Power Power			P-value P-value		Power Power			Power Power			P-value P-value		Power Power			Power-			P-value P-value	
13.1C/13.1 94935C/31288	2 2		11.25	5.99		0.00		 		0 4	0.63	0.63	-	0.00				0 4	0.00	0.00	-	0.00			
Habitat Mean:	s		11.30	6.00		0.00	-	-			0.60	0.60		0.00					0.00	0.00		0.00		•	
Fisher's Stouffer's		Power Power			Power Power			P-value P-value		Power Power			Power Power			P-value		Power Power			Power-			P-value P-value	
13.1C/13.1 94935C/31288	3		0.00	0.00	•	2.50	2.5			0 3	0.83	0.83	•	3.13	2.37	-		3	0.00	0.00	•	0.00	0.00		
Habitat Mean	6		0.00	0.00		2.50	2.5	0			0.00	0.00		3.10	2.40				0.00	0.00		0.00	0.00	1	
Fisher's Stouffer's		Power Power			Power Power			P-value P-value		Power Power			Power Power			P-value P-value		Power Power			Power-			P-value P-value	

x At least one site pair pivalue < 0.180 in opposite direction of overall tests. y Direction of difference between behitst means is different than direction of overall rears only one site pair.

Table C-5.431. Page 1. March 16, 1995

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 ciled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = ciled mean; CV = coefficient of variation SE = standard error; D = direction of difference; + = control > ciled; - = control < ciled; c = control = colled; P = probability value; Power = power to detect given difference; Power-50% = power to detect a 50% difference; dashes = insufficient data.

						Rock								Mud							1	Sand			
Site Pair	Mvd	N	С	SE	И	٥	SE	CV D	P	N	с	SE	N	0	SE.	CV p	P	И	c	8E	N	0	SE	CV p	P
13.1C/13.1 94935C/31288			94.50	2.15	-	100.00		-		u 5	0.00	0.00	0	U.UU 				u 5	0.00	0.00		U.UU 			
Habitat Means	s		94.50	2.20		100.00					0.00	0.00		0.00					0.00	0.00		0.00		•	
Fisher's Stouffer's		ower Power				er-50% er-50%		P-value P-value		Power Power			Power Power			P-value P-value		Power Power			Power Power			P-value P-value	
13.1C/13.1 94935C/31288			67.50	13.03		100.00				0 4	6.88	6.88		0.00		-	:::	0 4	0.00	0.00	1 0	0.00			
Habitat Means	s		67.50	13.00		100.00					6.90	6.90		0.00					0.00	0.00		0.00		-	
Fisher's Stouffer's		Power				er-50% er-50%		P-value P-value		Power Power			Power Power			P-value P-value		Power Power			Power Power			P-value P-value	
13.1C/13.1 94935C/31288	3		60.83	 28.66	•	94.38	3.29			0 3	0.00	0.00	•	0.00	0.00			0	6.67	6.67	4 0	0.00	0.00		
Habitat Means	s		60.80	28.70		94.40	3.30)			0.00	0.00		0.00	0.00				6.70	6.70	,	0.00	0.00	0	
Fisher's Stouffer's		ower?	- -			er-50% er-50%		P-value P-value		Power Power			Power Power			P-value P-value		Power Power			Power Power			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. Only one site pair.

Table C-9.432. Page 1. Herch 16, 1995

					Shell	Fragment	- a					24	1 aman	tous Dia	tome					Gand :	and Mud			
Site Pair	_ Mvd	N	С	SE	N N	o	SE	CV D	P	N	c	SE	N	0	SE	ÇV	 			oena .	and Mad		т	
13.1C/13.1 94935C/31288	1 8 i		0.00	0.00	-	0.00		-		0 5	0.00	0.00	_	0.00			 0 5	0.00	0.00	*	0.00			
Habitat Mean	ns		0.00	0.00		0.00					0.00	0.00		0.00				0.00	0.00		0.00			
Fisher's Stouffer's		ower			Power Power			P-value P-value		Power Power			Power Power			P-value P-value	 Power Power			Power-			P-value P-value	
.3.1C/13.1 4935C/31288			0.00	0.00		0.00		· -		0 4	0.00	0.00	-	0.00		-	 0 4	6.88	6.88	1 D	0.00			
Rabitat Mear	ns		0.00	0.00		0.00					0.00	0.00		0.00				6.90	6.90		0.00			
Fisher's Stouffer's		ower			Power Power			P-value P-value		Power Power			Power Power			P-value P-value	 Power Power			Power- Power-			P-value P-value	
13.1C/13.1 94935C/31288			0.00	0.00	4 0	0.00	0.00			3	0.00	0.00	4 0	0.00	0.00		 0 3	6.67	6.67	4 0	0.00	0.00		
Habitat Mea r	ns		0.00	0.00		0.00	0.00)			0.00	0.00		0.00	0.00			6.70	6.70		0.00	0.00	t	
Fisher's Stouffer's		ower ower			Power Power			P-value P-value		Power Power			Power Power			P-value P-value	 Power Power			Power- Power-			P-value P-value	

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

Table C-5.432. Algal Percent Cover. Substrates. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. Overstory removed September 1990. (Continued.)

Total	Substrate	
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				200																							
Site Pair	Mvd N	c	SE	И	0	88		CV D	Þ	N	Ċ	SE	И	0	se	ĆΛ	D	P	N	c	82	N	٥	SE	cv	מ	P
13.1C/13.1 94935C/3128		94.50		1 15 0	100.0																						
Habitat Mea	ns	94.50	2.2	20	100.0	0																					
Fisher's Stouffer's					wer-50% wer-50%			value value		Power Power			Power- Power-			P-val P-val			Power Power			Power Power			P-val P-val		
13.1C/13.1 94935C/3128		74.38		1 25 0																							
Habitat Mean	ns	74.40	8.3	30	100.0	D																					
Fisher's Stouffer's					wer-50% wer-50%		P-1	value value		Power Power			Power- Power-			P-val P-val			Power Power			Power Power			P-val P-val		
13.1C/13.1 94935C/3128		67.50		4 26 0	94.3		.29																				
Habitat Mean	ns	67.50	31.	30	94.4	.0 3	.30																				
Fisher's Stouffer's					wer-50% wer-50%			value value		Power Power			Power- Power-			P-val P-val			Power Power			Power Power			P-val P-val		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.</p>
y Direction of difference between hebitat means is different than direction of overall feats.
2 Only one site pair.

Table C-5.432. Page 3. March 16, 1995

Table C-5.433. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. August 1992. Overstory removed July 1990.

Rosults of statistical differences between means of control and ciled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = ciled mean; CV - coefficient of variation; SE . standard error; D = direction of difference; + : control > ciled; - = control < ciled; o = control = ciled; F = probability value; dashes = insufficient data.

				Algal	Diver	eity I	ndex (a)						Alga	l Taz	ka Richne	ess (b)							To	tal Alga	e			
Site Pair	Mv¢	N	С	SE	N	0	SE	CA	Þ	P	N	С	SE	N	0	SE		ם עב	P	N	С	SE	N	0	SE	¢v	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1 1	6 6 6 6	0.00 0.03 0.05 0.00	0.00 0.03 0.05 0.00	6 6 6	0.00 0.00 0.00 0.00 0.07	0.00 0.00 0.00 0.00 0.00	-	+	1.000 0.363 0.363 1.000 0.241	6 6 6	0.67 1.00 0.50 0.00 0.50	0.21 0.26 0.34 0.00 0.22	6 6	0.20 0.83 0.33 0.33 1.00	0,20 0,17 0,21 0,21	I L	- , 	0.148 0.600 0.687 0.175 0.270	6 6 6 6	29.58 54.17 10.00 0.00 26.25	15.02 18.09 6.45 0.00 15.86	6 6 6	0.50 27.08 17.08 5.00 55.83	0.50 12.52 16.59 3.23 19.29	- - -	-	0.079 0.245 0.745 0.177 0.247
Habitat Mea	ıns		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 Stouffer'	5	Power Power	0.000		Power Power			P-valı P-valı		0.454 0.327	Power Power	0.142 0.029			r-50% r-50%			value value	0.421 y 0.761	Power Power	0.02 0.00			er-50% er-50%		P-va P-va		0.331 _{*y} 0.307
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2	6 5 6 6	0.12 0.06 0.03 0.00 0.06	0.09 0.04 0.03 0.00 0.05		0.00 0.04 0.00 0.00 0.06	0.00 0.04 0.00 0.00	-	1 + O	0.235 0.719 0.363 1.000 0.996	6 5 6 6	1.50 1.40 0.67 0.33 1.00	0.56 0.24 0.33 0.21 0.37	6 6 6	0.60 0.67 0.50 0.33 1.25	0.24 0.33 0.22 0.21 0.63	3 2 L	- + - : - + - 0	0.206 0.122 0.687 1.000 0.721	6 5 6 6	45.00 55.00 11.25 17.50 43.75	14.96 12.82 6.73 14.29 19.21	6 6	26.00 20.00 17.92 30.00 75.00	12.26 16.12 13.79 19.02 25.00	! - • -	<u>+</u> -	0.355 0.169 0.761 0.670 0.252
Habitat Mea	ns		0.06	0.04		0.02	0.02		+			0.98	0.34		0.67	0.33	3	+			34.52	13.60		33.78	17,24		-	
Fisher's Stouffer'	s	Power Power	0.120 0.226		Power Power			P-valı P-valı		0.252 0.285	Power Power	0.488 0.402			r-50% r-50%			value value	0.149 0.155	Power Power	0.04 0.02			er-50% er-50%	0.616 0.734			0.548 y 0.587
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	4 2 4 6 6	0.28 0.35 0.13 0.18 0.22	0.10 0.12 0.10 0.08 0.11	4 6	0.10 0.00 0.17 0.09 0.46	0.10 0.00 0.09 0.07 0.10	_ _ _	+ - +	0.268 0.211 0.775 0.408 0.170	4 2 4 6	2.25 2.50 1.75 1.83 2.00	0.48 0.50 0.48 0.40 0.73	4 6 6	1.60 0.75 1.83 1.33 4.75	0.60 0.25 0.48 0.42 1.03	3	- + - + - + 	0.443 0.023 0.909 0.411 0.055	4 2 4 6 6	43.13 60.00 41.25 45.42 46.67	20.78 17.50 17.57 9.30 16.30	4 6 6	79.00 23.75 78.75 64.58 81.25	16.74 12.14 13.44 17.60 17.09	l - l -	-	0.169 0.189 0.092 0.380 0.177
Habitat Mea	ins		0.23	0.10		0.16	0.07		+			2.07	0.52		2.05	0.56	5	+			47,30	16.30		65.50	15.38	3	-	
Fisher's Stouffer'	ទ	Power Power	0.255 0.145		Power Power					0.232 0.134	Power Power				er-50% er-50%			value value	0.088x 0.063	Power Power	0.35			er-50% er-50%	0.784			0.035 0.198

(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.</p>
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

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2 Only one size				то	otal	Inverteb	rates								Rock							Pere	nnials ((P)			
Site Pair	Mvd	N	c	SB	N	0	SE	c	7 D	P	N	С	SE	N	0	SE	CV E	P	N	С	SE	N	0	SE	C.	V D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522			5.42 1.25 17.50 9.58 16.67	3.12 1.25 13.05 4.85 10.20	6 6	43.00 0.42 7.50 22.08 10.83	17.3 0.4 2.8 11.9 7.0	2 · 9 · 3 ·	- +	0.045 0.718 0.559 0.265 0.859	6 6 6 6	62.50 44.58 72.50 90.42 57.08	16.48 18.49 12.67 4.85 13.88	6 6	56.50 72.50 75.42 72.92 33.33	17.51 12.91 15.31 13.31 19.91	l 2 5 - +	0.241 0.936 0.158	6 6 6 6	29.58 54.17 10.00 0.00 26.25	15.02 18.09 6.45 0.00 15.86	6 6	0.50 27.08 16.67 5.00 55.83	0.50 12.52 16.67 3.23 19.29	2 - 7 - 3 -	- + 	0.079 0.245 0.816 0.177 0.247
Habitat Mea	ns		10.10	6.52		16.76	7,9	0	•			65.42	13.30		62.12	15.8	2 1			24.02	11.10		21.02	10.44	1	-	
Fisher's Stouffer'		Power Power	0.00			er-50% er-50%	0.391 0.524			0.761 _{xy} 0.782	Power Power				er-50% er-50%		P-value P-value		Power Power				r-50% r-50%				0.344xy 0.315
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	5 6 6	17.50 23.00 24.58 15.00 25.42	13.65 13.75 15.05 4.52 10.60	6 6	43.50 39.58 14.17 25.42 1.88	17.3 13.7 4.0 9.5 1.8	4 1 4		0.216 0.389 0.680 0.640 0.047	6 5 6 6	37.08 22.00 64.17 67.50 30.83	15.23 3.48 15.22 12.43 10.70	6 6 6	30.50 40.42 67.92 44.58 23.13	16.3: 12.4: 13.8: 12.1: 23.1:	7 8 5 - +	0.815	6 5 6 6	35.83 52.50 11.25 17.50 37.50	13.70 11.54 6.73 14.29 17.10	6 6	26.00 20.00 17.92 30.00 73.12	12.26 16.12 13,79 19.02 24.44	2 9	 	0.529 0.188 0.761 0.670 0.216
Habitat Mea	ns		21,10	11.54		24.92	9.2	8	-			44.32	11,40		41.30	15.60	• •			30.92	12.66		33.40	17.12	2	-	
Fisher's Stouffer'		Power	0.19 0.07			er-50% er-50%	0.709 0.768		ilue ilue	0.367× 0.315	Power Power				er-50% er-50%	0.938 0.945	P-value P-value		Power Power				er-50% er-50%	0.634 0.740			0. 496 0.551
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	2 4 6	1.88 6.25 5.00 10.42 6.67	1.88 6.25 2.04 8.45 3.14	6 6	0.00 15.63 3.33 11.67 0.63	0.0 3.7 3.3 5.7 0.6	3 · 3 ·	+	0.391 0.203 0.326 0.893 0.221	4 4 6 6	35.62 33.75 53.75 44.17 22.50	16.88 23.75 16.28 9.72 8.11	4 6	21.00 60.62 17.92 23.75 18.12	16.7 14.7 11.5 11.9 16.4	0 5 7	0.343 0.077 0.140	4 2 4 6 6	23.75 52.50 34.38 32.08 38.75	10.13 25.00 11.61 3.12 14.91	4 6 6 4	78.00 16.25 68.33 57.92 55.00	16.46 13.13 15.19 17.17 13.27	9 - 7 -	- + 	0.034 0.194 0.128 0.289 0.547
Habitat Mea	ns		6.06	4.36		6.24	2.6	8	+			37.98	14.96		28.28	14.3	0 +			36.32	12.94		55.10	15.06	5	-	
Fisher's Stouffer'		Power Power	0.08			er-50% er-50%	0.462 0.563			0.241 v 0.571	Power Power				er-50% er-50%	0.870	P-value P-value		Power Power				r-50% r-50%				0.026 0.183

x. At least one site pair p-value < 0.100 in opposits direction of overall tests. y Direction of difference between habitat means is different than direction of overall tests. 2 Only one site pair.

Table C-5.433. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. August 1992. Overstory removed July 1990. (Continued.)

		_			Anny	rals (y								Epher	merals (AE)												
Site Pair b	Mvd	N	С	gr	N	0	SE	GA	Đ	P	N	С	SE	N	٥	SE	cv	D	P	N	С	SE	N	0	ŞE	CV I	,	P
601C/601 598C/598	1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.42 0.00 0.00	0.0 0.0 0.4 0.0	0 – 2 – 0 –	0	1.000 1.000 0.363 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	0 -	0	1.000 1.000 1.000 1.000									
Habitat Means	s		0.00	0.00		0.08	0.0	8	-			0.00	0.00		0.00	0.00	0	0										
Fisher's Stouffer's		Power Power			Power					0.536	Power Power				r-50% r-50%				0.732	Power Power			Power Power			-value -value		
598C/598	2	5 6	9.17 2.50 0.00 0.00 6.25	7.35 2.50 0.00 0.00 5.31	6 6 6	0.00 0.00 0.00 0.00 2.88	0.0 0.0 0.0 0.0	0 -	0	0.213 0.374 1.000 1.000 0.627	6 5 6 6	9.17 0.00 0.00 0.00 5.42	7.35 0.00 0.00 0.00 5.42	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0 -	0										
Habitat Means	S		3.60	3.04		0.38	0.3	8	+			2.92	2.56		0.00	0.00)	+										
Fisher's Stouffer's		Power Power	0.013		Power Power		0.023 0.128				Power Power	0.001			r-50% r-50%	0.001				Power Power			Power Power			-value -value		
601C/601 598C/598	3	2 4 6	19.38 7.50 6.88 13.33 7.92	11.29 7.50 6.07 6.67 5.02	4 6 6	1.00 7.50 10.42 6.67 26.25	1.0 7.5 7.2 4.9 11.2	0 -	o - +	0.074 0.839 0.897 0.477 0.084	4 2 4 6 6	19.38 0.00 0.63 10.00 3.75	11.29 0.00 0.63 6.83 3.75	4 6 6	0.00 0.00 8.75 5.42 8.75	0.00 0.00 5.76 3.79 6.33	0 – 5 – 9 –	0	0.113 1.000 0.371 0.725 0.303									
Habitat Means	ş		11.00	7.32		10.38	6.3	6	+			6.76	4.50		4.60	3.18	3	-										
Fisher's Stouffer's		Power Power	0.111		Power Power					0.296x 0.380	Power Power	0.022			r-50% r-50%	0.199 0.380				Power Power		 	Power Power			-value -value		

 $[\]mathbf{x}$ At least one site pair p-value < 0.100 in opposite direction of overall tests, \mathbf{y} Direction of difference between habital means is different than direction of overall tests, \mathbf{z} Only one site pair.

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; P = probability value; dashes = insufficient data.

				7	otal	Chloropl	hyta		_			Morp	hologi	cal (Group: B	laded Gr	eens					Bla	ded G	сеепв (АЕ	(a)			_
Site Pair	Mvć	ı N	c	SE	Ŋ	0	SE	CV	D	P	N	c	SE	N	0	SE	CV I	D	P	N	c	SE	N	0	SE	(CV D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 00.0 00.0 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) -) -	0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0	0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 00.0 00.0	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0 0 0	- 0 - 0 - 0	1.000 1.000 1.000 1.000
Habitat Mean	19		0.00	0.00		0.00	0.00)	o			0.00	0.00		0.00	0.00	c	Э			0.00	0.00	1	0.00	0.00	D	0	
Fisher's Stouffer's		Power Power			Power Power			P-val P-val		0.732 0.500	Power Power				or-50% er-50%		P-value P-value		0.732 0.500	Power Power				r-50% r-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2	6 5 6 6	8.33 0.00 0.00 0.00 6.25	6.54 0.00 0.00 0.00 5.31	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) -) -	000+	0.208 1.000 1.000 1.000 0.226	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0	0	1.000 1.000 1.000 1.000 2.000	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6) 6) 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0 0 0	- 0 - 0	
Habitat Mean	19		2,92	2.36		0.00	0.00)	+			0.00	0.00		0.00	0.00	c	Þ			0.00	0.00)	0.00	0.00	0	0	
Fisher's Stouffer's	5	Power Power	0.004		Power Power			P-val P-val		0.221 0.335	Power Power				er-50% er-50%		P-value P-value		0.732 0.500	Power Power				r-50% r-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3	4 2 4 6 6	19.38 0.00 0.63 13.33 7.50	11.29 0.00 0.63 6.67 4.74	4 6 6	0.00 7.50 8.75 5.42 11.25	0.00 7.50 5.70 3.79 6.31	- 5 - 9 -		0.113 0.391 0.371 0.406 0.359	4 4 6 6	6.25 0.00 0.00 0.00 0.00	6.25 0.00 0.00 0.00 0.00	4 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		0	0.391 1.000 1.000 1.000 1.000	4 2 4 6 6	6.25 0.00 0.00 0.00 0.00	6.25 0.00 0.00 0.00	1 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0	- o - o	1.000
Habitat Mean	15		8.16	4.66		6.60	4.68	3	-			1.26	1.26		0.00	0.00	1	1			1.26	1.26	i	0.00	0.00	0	+	
Fisher's Stouffer's	3	Power Power	0.035 0.007		Power Power					0.386 y 0.505	Power Power				er-50% er-50%		P-value P-value		0.550 0.453	Power Power				c-50% c-50%				0.550 0.453

(a] Rormshinia, Monostroma, Ulva and Olvatia.

*** 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-5.434. Page 1. December 15, 3994

		Morpholog	ical G	roup:	Fine I	7ilament	ous Gr	ens			Acı	osip	honia sp.	(A)				Ch.	aetomo:	rpha/R	hizoclon	ium (A)	(a)		
Site Pair Mv	dN	С	SE	N	0	SE	ÇV	D P	N	С	SE	N	0	SE	CV D	P	N	c	SE	N	0	SE	CV :	· _	P
	. 6 . 6 . 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	o 1.000 o 1.000 o 1.000 o 1.000 o 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0	1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 1	0 1 0 1	.000 .000 .000 .000
Habitat Means		0.00	0.00		0.00	0.00		0		0.00	0.00		0.00	0.00	0			0.00	0.00)	0.00	0.00		0	
Fisher's Stouffer's	Power Power			Power Power			P-valu P-valu		Power Power				r-50% r-50%		P-value P-value		Power Power				-50% -50%		P-valu P-valu		. 732 . 500
598C/598 2	6 5 6 6	4.17 0.00 0.00 0.00 6.25	2.71 0.00 0.00 0.00 5.31	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	+ 0.178 0 1.000 0 1.000 0 1.000 + 0.226	6 6 6	0.00 0.00 0.00 0.00 0.83	0.00 0.00 0.00 0.00 0.83	5 6 6 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0 - 0	1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 1 6 1 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 4	0 1 0 1	.000 .000 .000 .000
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 Stouffer's	Power Power			Power Power			P-valu P- va lu		Power Power				r-50% r-50%		P-value P-value		Power Power				-50% -50%		P-valu P-valu		.732 .500
601C/601 3 598C/598 3	4 2 4 6 6	13.13 0.00 0.63 13.33 7.50	6.24 0.00 0.63 6.67 4.74	4 6 6	0.00 7.50 8.75 5.42 11.25	0.00 7.50 5.76 3.79 6.33	- - -	+ 0.086 - 0.391 - 0.371 + 0.406 - 0.359	4 2 4 6 6	0.00 0.00 0.00 3.33 3.75	0.00 0.00 0.00 3.33 3.75	4 6 6	0.00 7.50 0.00 0.00 2.50	0.00 7.50 0.00 0.00 1.77	- 0 0 - 1	0.391	4 2 4 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) 4) 6) 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 1	1 1	.000 .000 .000 .000
Habitat Means		6.90	3.64		6.60	4.68		-		1.42	1.42		2.00	1.86	+			0.00	0.00	1	0.00	0.00		0	
Fisher's Stouffer's	Power Power			Power Power			P-valu P-valu		Power Power	0.000			r-50% r-50%		P-value P-value		y Power Power				r-50% r-50%		P-valu P-valu		

⁽a) Genera not seperated.
X Rt least now side part p-value < 0.100 in opposite direction of overall tests.</p>
y Direction of difference between habitst means is different than direction of overall tests.
z Only One site pair.

Table C-5.434. Algal Percent Cover. Chlorophyta. Prince William Sound. Sheltered Rocky. August 1992. Overstory removed July 1990. (Continued.)

			C1	odqoba.	ra sp.	(AE)						ס	loth	rix ap. (?	AE)						σ	rospo	ra sp. (YE)			
it Parr Mv	rd N		Ф	. N	0	SE	CA	D	P	N	С	SE	N	0	SE	CV I	D	P	N	C	SE	N	0	SE	C	v p	P
453C/453 1 601C/601 1 598C/598 1	1 6 1 6 1 6 1 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0,00 0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		- 0 - 0 - 0	1.000 1.000 1.000 1.000 1.000
Habitat Means		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Power			Power					0.732 0.500	Power Power				er-50% er-50%		P-value P-value		0.732 0.500	Power Power			Powe:					0.732 0.500
453C/453 2 601C/601 2 598C/598 2	2 6 2 5 2 6 2 6 2 6	4.17 0.00 0.00 0.00 5.42	2.71 0.00 0.00 0.00 5.42	6 6	0.00 0.00 0.00 0.00	0,00 0.00 0.00 0.00	- - -	0	0.178 1.000 1.000 1.000 0.363	6 5 6 6	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	- 6 - 6 - 6	0	1.000 1.000 1.000 1.000 1.000	6 5 6 6	0.00 00.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 4	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		- 0 - 0 - 0	1.000 1.000 1.000 1.000 1.000
Habitat Means		1.92	1.62		0.00	0.00	•	+			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Power			Power Power			P-val P-val		0.258 0.353	Power Power				er-50% er-50%		P-value P-value		0.732 0.500	Power Power				r-50% r-50%				0.732 0.500
601C/601 3 598C/598 3	3 4 3 2 3 4 3 6 3 6	13.13 0.00 0.63 10.00 3.75	6.24 0.00 0.63 6.83 3.75	4 6 6	0.00 0.00 8.75 5.42 8.75	0.00 0.00 5.76 3.79 6.33	- -	+	0.086 1.000 0.371 0.725 0.303	4 2 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- e	0	1.000 1.000 1.000 1.000 1.000	4 2 4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 4	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		- 0 - 0 - 0	1.000 1.000 1.000 1.000 1.000
Habitat Means		5.50	3.48		4.60	3.18		+			0.00	0.00		0.00	0.00		O			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Power			Power Power					0.403 0.464	Power Power				er-50% er-50%		P-valu P-valu		0.732 0.500	Power Power				r-50% r-50%				0.732 0.500

x At least one aire pair p-value < 0.130 in opposite direction of overall tests, y Direction of difference between habitat means is different than direction of overall tests, z Only one site pair.

Table C 5.134. Page 3. December 15, 1994

s outh one sire	pazz,	Мо	rphologic	al Gr	oup:	Tubular a	and Sac	cate	Gree	ens		B1:	idingi	a/Ent	teromorphe	L (AE) (a)											
Site Pair	Mvd	N	С	SE	N	0	8E	CA	מ	P	N	С	Se	N	٥	SE	Ċν	D	P	N	С	SE	N	0	SB	c	V D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- -	0 0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0	1.000 1.000 1.000 1.000 1.000									
Habitat Mea	ıns		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0										
Fisher's Stouffer'		Power Power				r-50% r-50%				0.732 0.500	Power Power				r-50% r-50%		P-valı P-val:		0.732 0.500	Power Power			Power Power			P-v.		
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2	6 5 6 6	4.17 0.00 0.00 0.00 0.00	4.17 0.00 0.00 0.00 0.00	б б	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	0.363 1.000 1.000 1.000	6 5 6 6	4.17 0.00 0.00 0.00 0.00	4.17 0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	_	0	0.363 1.000 1.000 1.000 1.000									
Habitat Mea	ins		0.84	0.84		0.00	0.00		+			0.84	0.84		0.00	0.00		+										
Fisher's Stouffer'		Power Power				er-50% er-50%				0.536 0.450	Power Power				er-50% er-50%		P-val P-val		0.536 0.450	Power Power			Power			P-v P-v		
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3	4 2 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0	1.000 1.000 1.000 1.000	4 2 4 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0 0	1.000 1.000 1.000 1.000 1.000									
Habitat Mea	ans		0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		0										
Fisher's Stouffer'	's	Power Power				er-50% er-50%				0.732 0.500	Power Power				er-50% er-50%		P-val P-val		0.732 0.500	Power Power			Power Power			P-v P-v	alue alue	

⁽a) Genera not separated.

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

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.

					7	rotal	Phaeoph	yta					Mor	phologi	cal	Group:	Bladed B	rowns					Tota	1 Fuc	us gardı	neri (P)			
Site Pair	Mv	d N	С		SE	N	0	SE		CV D	P	N	c	SE	N	0	SE	cv	D	P	N	С	SE	N	٥	SE	C	V D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1	6 6 6 6	29.58 52.08 7.08 0.00 26.25	3	15.02 17.61 4.58 0.00 15.86	5 6 6 6	0.50 25.00 16.67 5.00 45.83	0.5 13.1 16.6 3.2 17.0	.7 :7 :3	- + - + 	0.079 0.217 0.722 0.177 0.375	6 6 6 6	29.58 52.08 7.08 0.00 26.25	15.02 17.61 4.58 0.00 15.86	6 6	0.50 25.00 16.67 5.00 45.83	0.56 13.13 16.63 3.23 17.01	- -	- -	0.079 0.217 0.722 0.177 0.375	6 6 6 6	29.58 52.08 7.08 0.00 26.25	15.02 17.61 4.58 0.00 15.86	6	0.50 25.00 16.67 5.00 45.83	0.50 13.17 16.67 3.23 17.01	7 7 3		0.079 0.217 0.722 0.177 0.375
Habitat Mea	ıns		23.02	2	10.62		18.60	10.1	2	-			23.02	10.62		18.60	10.12		-			23.02	10.62		18.60	10.12	2	-	
Fisher's Stouffer'	s	Powe:		034		Power		0.369 0.560			0.394×y 0.339	Power Power	0.033			er-50% er-50%		P-valu P-valu		0.394×y 0.339	Power Power	0.03 0.00			r-50% r-50%				0.394xv 0.339
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2	6 5 6 6	36.67 39.50 10.42 17.50 37.08	2	13.60 12.23 6.24 14.29 17.28	6 6 6	26.00 17.08 17.92 30.00 72.50	12.2 16.5 13.7 19.0 24.2	9	- + - + 	0.507 0.270 0.728 0.670 0.213	6 6 6 6	35.83 37.00 10.42 17.50 37.08	13.70 13.77 6.24 14.29 17.28	6 6	26.00 17.08 17.92 30.00 70.63	12.26 16.59 13.79 19.02 23.90	- - -	+	0.529 0.398 0.728 0.670 0.232	6 5 6 6	35.83 37.00 10.42 17.50 37.08	13.70 13.77 6.24 14.29 17.28	6	26.00 17.08 17.92 30.00 70.63	12.26 16.59 13.79 19.02 23.90	9 2	- , 	0.529 0.398 0.728 0.670 0.232
Habitat Mea	ins		28.24	1	12.72		32.70	17.2	0	-			27.56	13.06		32.32	17.12	!	-			27.56	13.06	i	32.32	17.12	2	-	
Fisher's Stouffer'	s	Powe:		030		Power Power		0.834 0.879			0.480 0.503	Power Power	0.039			er-50% er-50%		P-valu P-valu		0.479 0.451	Power Power	0.03 0.02			r-50% r-50%				0.479 0.451
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	4 2 4 6 6	23.13 36.25 26.88 30.00 26.67	5	9.81 23.75 5.04 2.24 12,43	6 6	66.00 13,75 64.58 57.92 48.12	17.6 13.7 14.7 17.1 10.6	5 4 7	 - + 	0.087 0.304 0.094 0.258 0.230	4 2 4 6	23.13 36,25 20.62 30.00 26.67	9.81 23.75 4.49 2.24 12.43	4 6 6	66.00 13.75 62.92 57.92 45.00	17.69 13.75 15.21 17.17 9.13	- -	+ - -	0.087 0.304 0.071 0.258 0.273	4 2 4 6 6	23.13 36.25 20.62 30.00 26.67	9.81 23.75 4.49 2.24 12.43	6 6	66.00 13.75 62.92 57.92 45.00	17.69 13.75 15.21 17.17 9.13	5 1 7	- + 	0.087 0.304 0.071 0.258 0.273
Habitat Mea	ins		28.60)	10.64		50.08	14.8	2	-			27.34	10.54		49.12	14.60	I	-			27.34	10.54		49.12	14.60)	-	
Fisher's Stouffer'	9	Powe:		619		Power Power	:~50% :~50%	0.886		value value	0.020 0.113	Power Power	0.649			er-50% er-50%		P-valu P-valu		0.019	Power Power	0.65			==-50% ==-50%				0.019 0.112

X. At least one site pair p-value < 0.100 in opposite direction of overall tests, y Direction of difference between habital means is different that direction of overall tests, z only one site pair.

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			Ad	lult Fu	cus g	ardneri	(P) (> 2	cm)			Juver	ile F	COB G	ardneri	(P) (<=	2cm)				Fuc	us Stipes (P) (a)		_
Site Pair	Mvd	1 N	С	SE	N	0	SE	CV D	Ъ	N	c	SE	N	0	86	ÇV I	P		-				CA -	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 6 6	18.75 50.00 2.92 0.00 24.17	13.63 18.36 2,92 0.00 15.28	6 6 6	0.50 20.83 16.67 5.00 42.92	0.50 13.19 16.67 3.23 17.20	- ·	0.177	6 6 6 6	10.83 2.08 4.17 0.00 2.08	10.34 2.08 4.17 0.00 1.36	6 6	0.00 4.17 0.00 0.00 2.92	0.00 2.71 0.00 0.00 2.92	 - :	0.554 0.363 1.000	6 6	2.50 0.00 0.00 0.00 0.00	2.50 0.00 0.00 0.00 0.00	6 0.00 6 0.00 6 0.00	0.00 0.00 0.00 0.00	 - 0 - 0 - 0	0.363 1.000 1.000 1.000
Habitat Mea	ins		19.18	10.04		17.18	10.16	-			3.84	3.60		1.42	1.12	+			0.50	0.50	0.00	0.00	+	
Fisher's Stouffer'		Power Power				r-50% r-50%		P-value P-value	0.316 y 0.296	Power Power	0.021 0.078		Power-		0.058 0.312	P-value P-value					Power-50% Power-50%		-value -value	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2	6 5 6 6	25.83 35.00 10.42 17.50 37.08	15.45 13.06 6.24 14.29 17.28	6 6	26.00 17.08 17.92 30.00 70.63	12.26 16.59 13.79 19.02 23.90	 	0.426 0.728 0.670	6 5 6 6	10.00 2.00 0.00 0.00 0.00	3.93 2.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- (0.374 1.000 1.000	. 5) 6) 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 0.00 6 0.00 6 0.00	0.00 0.00 0.00 0.00	- 0 - 0	1.000 1.000 1.000 1.000
Habitat Mean	E.S		25.16	13.28		32.32	17.12	-			2.40	1.18		0.00	0.00	-			0.00	0.00	0.00	0.00	σ	
Fisher's Stouffer's		Power Power				r-50% r-50%		P-value P-value		Power Power	0.142 0.107		Power-		0.052 0.039	P-value P-value					Power-50% Power-50%		-value -value	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3	4 2 4 6 6	16.25 33.75 20.62 30.00 26.67	9.49 21.25 4.49 2.24 12.43	4 6 6	66.00 6.88 62.92 57.92 45.00	17.69 6.88 15.21 17.17 9.13	- ·	0.071	4 2 4 6 6	6.88 2.50 0.00 0.00	4.72 2.50 0.00 0.00 0.00	4 6 6	0.00 6.88 0.00 0.00	0.00 6.88 0.00 0.00	- c	0.913 1.000 1.000	2 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 0.00 6 0.00	0.00 0.00 0.00 0.00	- o	1.000 1.000 1.000
Habitat Mea	ıns		25.48	9.98		47.74	13.22	-			1.88	1.44		1.38	1,38	4			0.00	0.00	0.00	0.00	0	
Fisher's Stouffer'	s	Power Power				r-50% r-50%		P-value P-value		Power Power	0.009 0.006		Power-		0.041 0.033		0.443				Power-50% Power-50%		-value -value	

 [[]a] Deed Purus plants or stipes without blades.
 x At least one site pair p-velue < 0.100 in opposite direction of overall tests.
 y Direction of difference between habitat means is different than direction of overall tests.
 2 Only one afte pair.

Table C-5.435. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. August 1992. Overstory removed July 1990. (Continued.)

	24 1 6 0.00 0.00 5 0.00 0.00 -										м	orphologi	cal Gr	onb:	Coarse 1	Filament	ous Br	row	ms			Die	ctyos:	iphon sp.	(A)			
Site Pair	Mv	1 N	С	SE	N	0	SE	C/	7 D	P	N	с	SE	N	0	SE	CV	D	P	N	C	88	N	0	SE	1	ÇV D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0 -	0	1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		- 0 - 0 - 0	1.000 1.000 1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer'	5	Power Power				er-50% er-50%		P-va P-va		0.732 0.500	Power Power				r-50% r-50%		-valu -valu		0.732 0.500	Power Power				r-50% r-50%			value value	0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2		0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0 -	0	1.000 1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	9	- 0 - 0 - 0 - 0	1.000 1.000 1.000 1.000 1.000
Habitat Mean	nş		0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer's		Power Power				er-50% er-50%		P-va P-va		0.732 0.500	Power Power				r-50% r-50%		-valu		0.732 0.500	Power Power				c-50% c-50%			value value	0.732
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	4 2 4 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 6 6	0.00 0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0 - 0 - 0 -	0	1.000 1.000 1.000 1.000	4 2 4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 4 6 6 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- -	0 0 0	1.000 1.000 1.000 1.000	4 2 4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		- 0 - 0 - 0 - 0	1.000 1.000 1.000 1.000
Pabitat Meas	ns		0.00	0.00		0.00	0.0	0	o			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer's		Power Power				er-50% er-50%				0.732 0.500	Power Power				r-50% r-50%				0.732 0.500	Power Power			Power					0.732 0.500

(b) Comera not separated.

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

Table C 5.435. Page 3. December 15, 1994

			Му	elophy	00 6 0.00 0.0 00 6 0.00 0.0 00 6 0.00 0.0 00 0.00 0.00 0.0 Power-50% Power-50% 0.00 0.0 00 5 0.00 0.0 00 6 0.00 0.0 00 6 0.00 0.0 00 6 0.00 0.0 00 6 0.00 0.0	(a)				Morpholog	ical 6	roup:	Fine Fi	ilamento	us Br	CWD	8		F1	ne Fila	ament	ous Brown	s (AE) ((b)				
Site Pair	æ	N .	С	SE	N	0	SE	C/	ם י	P	N	С	SE	N	0	9E	CA	D	P	N	С	SE	N	o	SE	СV	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00	0.0	0 - 0 -	0	1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	0	1.000 1.000 1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00	1	0.00	0.0	0	0			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power						P-va P-va		0.732 0.500	Power Power				r-50% r-50%		P-valı P-valı		0.732 0.500	Power Power				r-50% r-50%		P-val		0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6	0.00 0.00 0.00	0.0 0.0	0 -	0	1.000 1.000 1.000 1.000	6 5 6 6	0.83 0.00 0.00 0.00	0.83 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	0.363 1.000 1.000 1.000	6 5 6 6	0.83 0.00 0.00 0.00 0.00	0.83 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	0	0.363 1.000 1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00		0.00	0.0	0	0			0.16	0.16		0.00	0.00		-			0.16	0.16		0.00	0.00		-	
Fisher's Stouffer's		Power Power				er-50% er-50%		P-va P-va		0.732 0.500	Power Power			Powe:	r-50% r-50%		P-val: P-val:		0.536 0.450	Power Power				r-50% r-50%		P-val		0.536 0.450
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0	0 -	0	1.000 1.000 1.000 1.000	4 2 4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 4 6 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	4 2 4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	0	1.000 1.000 1.000 1.000 1.000
Habitat Mean	ns		0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power				er-50% er-50%		P-ve P-ve		0.732 0.500	Power Power			Power	r-50% r-50%		-valı		0.732 0.500	Power Power				c-50% c-50%				0.732 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.</p>
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.435. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. August 1992. Overstory removed July 1990. (Continued.)

										L	eathes	ia/C	olpomenia	(A) (a	}					Sora	nther	ı ulvoide	a (A)					
	Mvd		Morph	SE SE	N N	oup: sa	sE		D	P	H		9E	N	0	SE	ĊΛ	D	P	N	С	SE	N	0	SE	CΛ	D	P
ite Pair	MVG	М		<i>D</i> D					_		_	2 22	0.00	5	0.00	0.00	_	0	1.000	6	0.00	0.00	5	0.00	0.00	-		1.000
825C/1424 53C/453	1	6	0.00	0.00	5 6	0.00	0.00	-	0	1.000	6	0.00	0.00	6	0.00	0.00	-	0	1.000	6	0.00	0.00		0.00	0.00		0	1.000
01C/601 98C/598	1	6	0.00	0.00	6 6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	0	1.000	6	0.00	0.00		0.00	0.00	_		1.000
522C/1522	1	6	0.00	0.00	б	0.00	0.00		0	1.000	ь	0.00	0.00	0	0.00	0.00		0			0.00	0.00		0.00	0.00		0	
abitat Mea Fisher's	ns	Power	0.00	0.00	Power			P-va	lue	0.732	Power				r-50%		P-va P-va		0.732	Power			Power			-valu		0.732
Stouffer'	s	Power			Power	-50%		P-va	lue	0.500	Power			Powe	r-50%			100		.0#02			-	0.00	0.00	_	0	1.000
825C/1424	2	6	0.00	0.00		0.00	0.00		0	1.000	6	0.00	0.00	5 6	0.00	0.00	-	0	1.000	6 5	0.00	0.00	6	0.00	0.00	-	0	1.000
53C/453 01C/601	2	6	0.00	2.50 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	1.000
98C/598 522C/1522	2		0.00	0.00		1.88	1.8	-	-	0.391	6	0.00	0.00	4	1.88	0.38		-	0.391	6	0.00	0.00		0.00	0.00		0	
abitat Mea	ns		0.50	0.50		0.38	0.3	3	+			0.50	0.50					. '					Darro	r-50%		P-val:	10	0.732
Fisher's		Power			Power			P-va P-va		0.634	Power Power				r-50% r-50%		P-va P-va		0.634 0.385	Power Power				r-50%		P-val	10	0.500
Stouffer'	's 3	Power	0.00	0.00		0.00	0.0			1.000	4	0.00	0.00		0.00	0.00		_	1.000	4	0.00	0.00		0.00	0.00	_		1,000
825C/1424 53C/453	3	2	0.00	0.00	4	0.00	0.0			1.000	2 4	0.00 6.25	0.00 6.25	6	0.00	1.67	-	+	0.548	4	0.00	0.00	6	0.00	0.00	-		1.000
01C/601 98C/598	3	6	0.00	0.00	6	0.00	0.0		_	1.000	6 6	0.00	0.00		0.00 3.13	3.13		0	0.391	6	0.00	0.00	4	0.00	0.00	-		1.000
522C/1522	-	ь				0.96	0.9		_			1.26	1.26		0.96	0.9	5	-			0.00	0.00		0.00	0.00		Ç	
abitat Mea	ans		1.26	1.26		0.96	0.9		_		_			2000	er-50%		P-va	ive	0.623	Power				r-50%				0.732
Fisher's		Power			Power	r-50%				0.623 y	Power Power				r-50% r-50%				0.484	Power			Powe	r-50%		P-val	ae	0.500

(a) Genera not separated.

 \mathbf{x} At least one site pair \mathbf{p} -value < 0.100 in apposite direction of overall tests. y Direction of difference netween babitat means is different than direction of overall tests. z Only one site pair.

z Only one site I	pair.		Morpho	logic	al Gr	oup: Cru	stose B	rowns			1	Ralfsi	a/Pet	troderma	(P) (a)				_								
				0.30	M	^	g p	۲V	n P	N	Ç.	SE	N	0	ŝe	CV D	1	P	n	С	SE	N	0	SE	ĊΛ	ם	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00	-	o 1.000 o 1.000 o 1.000 o 1.000	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0	1. 1.	000									
Habitat Mear	ıs		0.00	0.00		0.00	0.00		0		0.00	0.00		0.00	0.00	, c		700	¬			Power	E09				
Fisher's Stouffer's		Power Power			Power			P-val: P-val:	e 0.732 e 0.500	Power Power				r-50% r-50%		P-value P-value	0.	500	Power Power			Power					
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2	6 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 1.000	5 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		1. 1. 1.	.000 .000 .000 .000									
Habitat Mean	ns		0.00	0.00		0.00	0.00		0		0.00	0.00		0.00	0.00			722	Power			Power	-50%				
Fisher's Stouffer's	s	Power Power			Power	r=50% r=50%			ie 0.732 ie 0.500					r-50% r-50%		P-value P-value	0.	.500	Power			Power					
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3	4 2 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	o 1.000 o 1.000 o 1.000 o 1.000	2 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c	1. 1. 1.	.000									
Habitat Mea	_	-	0.00	0.00		0.00	0.00		0		0.00	0.00		0.00	0.00	(>					Power	509				
Fisher's		Power			Powe:	r-50%			ie 0.73:					er-50% er-50%		P-value P-value		.732 .500	Power Power			Power					

Table C 5.435. Page 5. December 15, 1994

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.

	/1424 1 6 0.00 0.00 5 0.00 0.00 153 1 6 2.08 2.08 6 2.08 2.08 1001 1 6 2.92 2.92 6 0.42 0.42 1001 1 6 0.00 0.00 6 0.00 0.00 1/1522 1 6 0.00 0.00 6 10.00 9.04 11 Means 1.00 1.00 2.50 2.30 11 Means 1.00 Power-50% 1											Morp	holog	ical	Group: 1	Bladed R	eds						Bangi	a sp. (Ai	4)			
Site Pair	Mvd	N	С	SE	N	0	SE	CV	Ð	P	N	c s	3E	N	0	Se	cv	D	P	N	C	SE	N	0	SE	CV	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1	6 6 6	2.08 2.92 0.00	2.08 2.92 0.00	6 6	2.08 0.42 0.00	2.09 0.42 0.00	- - -	0 + 0	1.000 1.000 0.566 1.000 0.253	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000
Habitat Mea	ns		1.00	1.00		2.50	2.30		-			0.00	0.00		0.00	0.00		О			0.00	0.00		0.00	0.00			0.700
Fisher's Stouffer'	5	Power Power	0.001					P-val P-val		0.536 0.458	Power Power				r-50% r-50%		P-val: P-val:		0.732 0.500	Power Power				r-50% r-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2	6 5 6 6	0.00 15.50 0.83 0.00 0.42	0.00 14.28 0.83 0.00 0.42	6 6	0.00 2.92 0.00 0.00 2.50	0.00 1.87 0.00 0.00 2.50	-		1.000 0.456 0.363 1.000 0.473	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mea	ns		3.34	3.10		1.08	0.88		+			0.00	0.00		0.00	0.00		O			0.00	0.00	1	0.00	0.00		0	
Fisher's Stouffer'	S	Power Power	0.003 0.014			r-50% r-50%		P-val P-val		0.469	Power Power				r-50% r-50%		P-val: P-val:		0.732 0.500	Power Power				r-50% r-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3	4 2 4 6	0.63 23.75 13.75 2.08 12.50	0.63 6.25 13.75 1.36 5.92	4 6 6	13.00 2.50 5.42 1.25 21.88	13.00 2.50 3.56 1.25 7.46	- - -	-	0.515 0.030 0.728 0.606 0.397	4 2 4 6	0.00 7.50 0.00 0.00 2.08	0.00 7.50 0.00 0.00 2.08	4 6 6	3.50 0.00 0.00 0.00 5.00	3.50 0.00 0.00 0.00 2.70	-	0	0.374 0.500 1.000 1.000 0.225	4 2 4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) 4) 6) 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000 1.000
Habitat Mea	ins		10.56	5,60		8.82	5.58	ŧ	+			1.92	1.92		1.70	1.24		-			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	5	Power Power	0.321			r-50% r-50%	0.864	P-val P-val		0.180 0.086	Power Power	0.015 0.004			er-50% er-50%		P-val P-val		0.352 y 0.493	Power Power				r-50% r-50%				0.732 0.500

x At least one site pair p-value < 0.100 in opposite direction of overal; tests, y direction of difference between habitat means is different than direction of overall tests, only one site pair.</p>

Table C 5.436. Page 1. December 15, 1994

				Gigart	inace	eae Group	(P) (a	1					P	alman	ria spp.	(A)						Phy	усодту	s riggii	(A)			
Site Pair	Mvd	1 N	c	SE	N	0	SE	CV	D	P	N	C	SE	N	0	SE	Ċν	D	P	N	С	SE	N	0	ŞE	CV	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	5 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0,00		О			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	5	Power Power				er-50% er-50%		P-val P-val		0.732 0.500	Power Power				r-50% r-50%		P-valu P-valu		0.732 0.500	Power Power			Power					0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0 0	1.000 1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00 0.00	0.00 00.0 00.0 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) -) -	- 0	1.000 1.000 1.000 1.000 1.000
Habitat Mea		-	0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer'		Power Power				er-50% er-50%		P-val P-val		0.732 0.500	Power Power				er-50% er-50%		P-valu P-valu		0.732 0.500	Power Power			Power Power	-50% -50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3	4 6	0.00 0.00 0.00 0.00 2.08	0.00 0.00 0.00 0.00 2.08	6 6	3.50 0.00 0.00 0.00 4.38	3.50 0.00 0.00 0.00 2.7	- - -	0	0.374 1.000 1.000 1.000 0.284	4 2 4 6 6	0.00 7.50 0.00 0.00	0.00 7.50 0.00 0.00 0.00		0.00 0.00 0.00 0.00 0.63	0.00 0.00 0.00 0.00 0.63	-	0 + 0 0 -	1.000 0.500 1.000 1.000 0.391	4 2 4 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 6 6 4	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) -) -) -	- 0	1.000 1.000 1.000 1.000 1.000
Nabitat Mea	ins		0.42	0.42	!	1.58	1.2	i	-			1.50	1.50		0.12	0.12		-			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	s	Power Power	0.017 0.012			er-50% er-50%				0.326 0.365	Power Power				er-50% er-50%				0.629 y 0.571	Power Power				:-50% :-50%				0.732 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 babitat means is different than direction of overall tests.
z Only one site pair.

Table C-5.436. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1992. Overstory removed July 1990. (Continued.)

					Porphy	ra sp. ()	A)						Rhod	lymen	ia pertus	a (A)						Tokida	dendr	on kurile	nsis (A	L)		
Site Pair	Mvd	1 N	С	SE	N	0	SE	CV	D	P	N	С	SE	N	o	SE	GA I	,	P	N	С	SE	N	0	SE	Ţ,	CA D	Р
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0	0 - 0 - 0 -	0 0 0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0 - 0		1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		- o	1.000 1.000 1.000 1.000 1.000
Habitat Mea	пs		0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00	c)			0.00	0.00		0.00	0.00)	О	
Fisher's Stouffer'	s	Power Power			Power			P-va P-va		0.732 0.500	Power Power				r-50% r-50%		P-value P-value		0.732 0.500	Power Power				r-50% r-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0 - 0 - 0 -	0 0 0 0	1.000 1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0 - 0	5	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6 4	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0	- o	1.000 1.000 1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00	c	>			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer'	ŝ	Power Power			Power Power			P-va P-va		0.732 0.500	Power Power				r-50% r-50%		P-value P-value		0.732 0.500	Power Power				r-50% r-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3	4 2 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0	0 - 0 - 0 -	0 0 0 0 0	1.000 1.000 1.000 1.000	4 2 4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c	5	1,000 1.000 1.000 1.000 1,000	4 2 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0 0 0	o	1.000 1.000 1.000 1.000
Habitat Mea	ıns		0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00	C	5			0.00	0.00		0.00	0.00	0	0	
Fisher's Stouffer'	s	Power Power			Power Power			P-va P-va		0.732 0.500	Power Power				er-50% er-50%		P-value P-value		0.732	Power Power				r-50% r-50%				0.732 0.500

x At least one site pair p-value < 0.130 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tears.
z Only one site pair.

Table C 5.436. Page 3. December 15, 1994

			Morpholog	rical G	roup:	Coarse	e Filamer	tous I	Reds		A:	rticul	ite C	oralline	Algae (A)					Crypt	osiph	onia woo	dii (A)			
Site Pair	Mvd	N	С	SE	N	0	SE	CV	D :	P N	С	SE	Ŋ	0	SE	CV	D	P	N	С	SE	N	0	SE	CV 1	b	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1	6 6 6 6	0.00 2.08 2.92 0.00 0.00	0.00 2.08 2.92 0.00 0.00	5 6 6 6	0.00 0.00 0.42 0.00 0.83	0.00 0.00 0.42 0.00 0.83	-	0 1.1 + 0 + 0 - 0	363 6 566 6 000 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	<u>-</u> -	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c	0	1.000 1.000 1.000 1.000 1.000
Habitat Mea	ins		1.00	1.00		0.24	0.24		+		0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00	,	0	
Fisher's Stouffer'	s	Power Power			Power Power			⊋-valu P-valu						r-50% r-50%		P-valu P- v alu		0.732	Power Power				r-50% r-50%		P-value P-value		
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2	6 5 6 6	0.00 15.50 0.83 0.00 0.42	0.00 14.28 0.83 0.00 0.42		0.00 2.92 0.00 0.00 2.50	0.00 1.87 0.00 0.00 2.50	- - -	0 1. + 0. + 0. 0 1. - 0.	456 5 363 6 000 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	<u>-</u>	0	1.000 1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- I	0 :	1.000 1.000 1.000 1.000
Habitat Mea	ins		3.34	3.10		1.08	0.88				0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	s	Power Power	0.005 0.012		Power			P-valu P-valu						r-50% r-50%		P-valu P-valu		0.732 0.500	Power Power				r-50% r-50%		P-valu P-valu		
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	4	0.63 16.25 13.75 2.08 10.00	0.63 1.25 13.75 1.36 5.36	4 6 6	8.50 2.50 5.42 0.00 11.25	8.50 2.50 3.56 0.00 6.81	-	- 0. + 0. + 0. + 0.	051 2 728 4 178 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	00000	1.000 1.000 1.000 1.000 1.000	4 2 4 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	₹ 6	0.00 0.00 0.00 0.00 5,62	0.00 0.00 0.00 0.00 5.63	- i	0	1.000 1.000 1.000 1.000 0.391
Habitat Mea	ans		8.56	4.50		5.54	4,28		4		0.00	0.00		0.00	0.00		0			0.00	0.00		1.12	1.12		-	
Fisher's Stouffer'	's	Power Power			Power Power			P-valu P-valu						r-50% r-50%		P-valı P-valı		0.732	Power Power				r-50% r-50%		P-valu P-valu		

x. At least one site pair p value < 0.100 in opposite direction of overal) tests. y Direction of difference between habitet means is different than direction of overall tests. This one site pair.

rable C-5.436. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1992. Overstory removed July 1990. (Continued.)

				Endo	cladi	la muricat	a (P)						Gloi	opeli	tis furcat	a (A)					1	Neorhod	omela	/Rhodome	la (P) ((a)		
Site Pair	Mvd	N	c	SE	Ñ	0	SE	CA	D	P	N	С	SE	N	0	SE	CV I	D	P	N	С	SE	N	0	SE		CA D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1 1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.0	0 - 0 -	_	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6 6	0.00 0.00 0.42 0.00 0.00	0.00 0.00 0.42 0.00 0.00	- e	0 - 0	1.000 1.000 0.363 1.000 1.000	6 6 6 6	0.00 2.08 2.92 0.00 0.00	0.00 2.08 2.92 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00 0.83	0.00 0.00 0.00 0.00)	- 0 - + - +	1.000 0.363 0.363 1.000 0.363
Habitat Mea	ns		0.00	0.00		0.00	0.0	C	0			0.00	0.00		0.08	0.08		-			1.00	1.00		0.16	0.16	5	+	
Fisher's Stouffer'		Power Power				r-50% r-50%		P-va P-va		0.732 0.500	Power Power				r-50% r-50%		P-value P-value		0.536 0.417	Power Power				r-50% r-50%				0.441
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0) –) –) –	o	1.000 1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6 4	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 6 - 6	0	1.000 1.000 1.000 1.000 1.000	6 5 6 6	0.00 15.50 0.83 0.00 0.42	0.00 14.28 0.83 0.00 0.42	6 6 6	0.00 2.92 0.00 0.00 2.50	0.00 1.87 0.00 0.00 2.50	7	- o	1.000 0.456 0.363 1.000 0.473
Habitat Mea	ns		0.00	0.00		0.00	0.0)	0			0.00	0.00		0.00	0.00		0			3.34	3.10		1.08	0.88	3		
Fisher's Stouffer'		Power Power				r-50% r-50%		P-va P-va		0.732 0.500	Power Power				r-50% r-50%		P-value P-value		0.732 0.500	Power Power	0.00			r-50%			value value	0.469 0.324
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3 3	2	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0 - 0 - 0 -	0 0 0 0	1.000 1.000 1.000 1.000	4 2 4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c	0	1.000 1.000 1.000 1.000 1.000		0.63 16.25 13.75 2.08 10.00	0.63 1.25 13.75 1.36 5.36	4 6 6	8.50 2.50 5.42 0.00 5.62	8.50 2.50 3.56 0.00 4.13) 5)	 - + - +	0.554 0.051 0.728 0.178 0.703
Habitat Mea	ns		0.00	0.00		0.00	0.0)	0			0.00	0.00		0.00	0.00	(0			8.56	4.50		4.40	3.74	1	+	
Fisher's Stouffer'		Power Power				r-50% r-50%		P-va P-va		0.732 0.500	Power Power				r-50% r-50%		P-value P-value		0.732 0.500	Power Power				r-50% r-50%				0.076 0.015

(a) Genera not separated.
 x At least one site poir p-value < 0.130 in opposite direction of overall tests.
 y Direction of difference between habitat means is different than direction of overall tests.
 x Only one site poir.

Table C-5.436, Page 5. December 15, 1994

			Odor	thalia	floccos	a (P)						Ptilot	a/Ne	optilota	(P) (b)			_		Mor	pholog	ical (Froup: 8	accate F	Ređe		
Site Pair Mv	vd N	С	SE	N	o	SE	ÇV	D	P	N	c	SE	N	0	SE	CV I	D	P	N	c	SE	N	0	SE	CV	D	P
4825C/1424 1 453C/453 1 601C/601 1 598C/598 1 1522C/1522 1	1 6 1 6 1 6 1 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- -	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	0	1.000 1.000 1.000 1.000 1.000
Habitat Means		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Power Power			Power Power			P-val P-val		0.732 0.500	Power Power				r-50% r-50%		-value -value		0.732 0.500	Power Power			Power Power	r-50% c-50%		P-val		0.732 0.500
4825C/1424 2 453C/453 2 601C/601 2 598C/598 2 1522C/1522 2	2 6 2 5 2 6 2 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- -	0	1.000 1.000 1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 1	0	1.000 1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	0	1.000 1.000 1.000 1.000
Habitat Means		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Power Power			Power Power			P-val P-val	ue ue	0.732 0.500	Power Power				r-50% r-50%		-value -value		0.732 0.500	Power Power				r-50% r-50%		-val		0.732 0.500
4825C/1424 3 453C/453 3 601C/601 3 598C/598 3 1522C/1522 3	3 4	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000	4 2 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 4 6 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c	0 0 0	1.000 1.000 1.000 1.000 1.000	4 2 4 6 6	0.00 0.00 0.00 0.00 0.42	0.00 0.00 0.00 0.00	6	1.00 0.00 0.00 0.00 5.62	1.00 0.00 0.00 0.00 4.13	- - - -	0	0.374 1.000 1.000 1.000 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 Stouffer's	Power Power			Power Power					0.732 0.500	Power Power				r-50% r-50%		-value -value		0.732 0.500	Power Power	0.025 0.019		Power Power	r-50% r-50%				0.247 0.338

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

Table C-5.436. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky, August 1992. Overstory removed July 1990. (Continued.)

		1	Halosa	ccion	glandifo	rme (A)						на	овас	cion spp.	(A)					Morpho1	ogical	Group:	Pine i	Filament	ou s	Reda	' <u></u>
Site Pair Myd	N	c	SE	N	0	SE	CA	D	P	N	С	SE	N	٥	SE	CV I	D	P	N	c	SE	N	0	ŠE	CV	ם	P
4825C/1424 1 453C/453 1 601C/601 1 598C/598 1 1522C/1522 1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	0 0 0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	56666	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- (- (0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 0 6 0 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000
Habitat Means		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		5			0.00	0.00)	0.00	0.00		0	
	Power Power			Power Power					0.732 0.500	Power Power				er-50% er-50%		?-value ?-value		0.732 0.500	Power Power			Power Power					0.732 0.500
4825C/1424 2 453C/453 2 601C/601 2 598C/598 2 1522C/1522 2	6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6 4	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c	0	1.000 1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) 6) 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000
Habitat Means		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	<	0			0.00	0.00)	0.00	0.00		0	
	Power Power			Power Power			P-val P-val		0.732 0.500	Power Power				er-50% er-50%		?-value ?-value		0.732 0.500	Power Power	~		Power Power					0.732 0.500
4825C/1424 3 453C/453 3 601C/601 3 598C/598 3 1522C/1522 3	6	0.00 0.00 0.00 0.00 0.42	0.00 0.00 0.00 0.00 0.42		1.00 0.00 0.00 0.00 5.62	1.00 0.00 0.00 0.00 4.13	- - - -	0	0.374 1.000 1.000 1.000 0.158	4 2 4 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	5 4 6 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c	0	1.000 1.000 1.000 1.000	4 2 4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) 4) 6) 6	0.00 0.00 0.00 1.25 0.00	0.00 0.00 0.00 1.25 0.00	-	0	1.000 1.000 1.000 0.363 1.000
Habitat Means		0.08	0.08		1.32	1.02					0.00	0.00		0.00	n . no		n			0.00	0.00)	0.26	0.26		-	
	Power Power	0.025 0.019		Power Power					0.247 0.338	Power Power				er-50% er-50%		P-value P-value		0.732 0.500	Power Power	~		Power Power			2-va 2-va		0.536 0.240

x At least one site pair p-value < 0.150 in apposite direction of overell tests.
y Direction of difference between hebital means is different than direction of orwiell tests.
z Only one site pair.

hable C-5.436. Page 7, December 35, 1994

		Pol	ysipho	nia/P	terosipho	nia (A	(a)				Morp	hologi	cal	Group: C	rustose	Reds					Crusto	se Co	ralline A	lgae (P)		
Site Pair Mv	d N	С	SE	N	0	SE	ĊV	D	P	N	c	SE	N	٥	SE	cv	D	Р	N	£	SE	N_	0	SE	CA	D	P
4825C/1424 1 453C/453 1 601C/601 1 598C/598 1 1522C/1522 1	. 6 . 6 . 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0) -) -	0	1.000 1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6 6	0.00 2.08 0.00 0.00 9.17	0.00 2.08 0.00 0.00 9.17	-	-	0.363	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000 1.000
Habitat Means		0.00	0.00		0.00	0.0)	0			0.00	0.00		2.26	2.26		-			0.00	0.00)	0.00	0.00		0	
Fisher's Stouffer's	Power Power				r-50% r-50%				0.732 0.500	Power Power				er-50% er-50%		P-val P-val		0.359 0.251	Power Power				c-50 % c-50 %				0.732 0.500
4825C/1424 2 453C/453 2 601C/601 2 598C/598 2 1522C/1522 2	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0) -) -	0	1.000 1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6 4	0,00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 00.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Means		0.00	0.00		0.00	0.0)	0			0.00	0.00		0.00	0.00		0			0.00	0.00)	0.00	0.00		ø	
Fisher's Stouffer's	Power Power				r-50% r-50%				0.732 0.500	Power Power				er-50% er-50%		P-val P-val		0.732 0.500	Power Power				-50% -50%				0.732 0.500
4825C/1424 3 453C/453 3 601C/601 3 598C/598 3 1522C/1522 3		0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 6 6	0.00 0.00 0.00 1.25 0.00	0.00 0.00 0.00 1.2) -) - 5 -	0	1.000 1.000 1.000 0.363 1.000	4 2 4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 4 6 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	4 2 4 6 6	0,00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) 4) 6) 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Means		0.00	0.00		0.26	0.2	5	-			0.00	0.00		0.00	0.00		Q			0.00	0.00)	0.00	0.00		0	
Fisher's Stouffer's	Power				r-50% r-50%				0.536 0.240	Power Power				er-50% er-50%		P-val P-val		0.732 0.500	Power Power				r-50% r-50%		P-va P-va		0.732 0.500

(a) Genera not separated.

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

Table C-5.436. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1992. Overstory removed July 1990. (Continued.)

				Hil	ldenb	randia sp.	(P)						Peti	cocelis (P)							
Site Pair	Mvd	1 N	С	SE	N	0	SE	СV	p p	17	-								==	I	==	ETI
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 2.08 0.00 0.00 9.17	0.00 2.08 0.00 0.00 9.17	- - -	o 1.000 - 0.363 o 1.000 o 1.000 - 0.363	66666	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	- 0 - 0 - 0 - 0	1.000					
Habitat Mear	ns		0.00	0.00		2,26	2.26		-		0.00	0.00		0.00	0.00	0						
Fisher's Stouffer's		Power Power				r-50% r-50%			e 0.359 e 0.251	Power Power				er-50% er-50%		ovalue ovalue		Power Power		Power-50% Power-50%		P-value P-value
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -		6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0	1.000					
Habitat Mean	ns		0.00	0.00		0.00	0.00		0		0.00	0.00		0.00	0.00	o						
Fisher's Stouffer's	s	Power Power				r-50% r-50%			e 0.732 e 0.500	Power Power				er-50% er-50%		value value		Power Power		Power-50% Power-50%		P-value P-value
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3	4 2 4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0 1.000 0 1.000 0 1.000 0 1.000 0 1.000	4 2 4 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0 - 0	1.000 1.000 1.000					
Habitat Mean	ns		0.00	0.00		0.00	0.00		0		0.00	0.00		0.00	0.00	0						
Fisher's Stouffer's		Power Power				r-50% r-50%			e 0.732 e 0.500	Power Power	-			r-50% r-50%	I	-value -value		Power Power		Power-50% Power-50%		P-value P-value

x At least one site pair p value < 0.100 in appearse direction of overall tests.
y Direction of difference between habitat magns 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.

					Balo	nomorph	a						L	ottiidae								м	ytilus				
Site Pair	Mvd	N	c	SE	N	0	SE	ÇV D	P	N	С	SE	N	0	SE	CV	D	P	N	c	SE	N	0	Se	С	ע ע	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1 1 1		3.33 1.25 16.25 8.75 13.75	2.20 1.25 12.31 5.07 8.31	5 6 6 6	42.00 0.42 4.58 17.50 8.75	17.31 0.42 2.27 12.62 6.32		0.718 0.372 0.477	6 6 6	2,08 0.00 0.83 0.00 2.50	1.19 0.00 0.83 0.00 2.04	6 6	1.00 0.00 2.08 3.75 0.42	0.61 0.00 2.08 1.91 0.42	-	• -	0.588 1.000 0.756 0.044 0.385	6 6 6 6	0.00 0.00 0.00 0.00 0.42	0.00 0.00 0.00 0.00 0.42	6 6 6	0.00 0.00 0.00 0.83 1.67	0.00 0.00 0.00 0.53 1.05	1	- o	1.000 1.000 1.000 0.175 0.392
Habitat Mea	ins		8.70	5.84		14.66	7.78	+			1.08	0.80		1.46	1.00		-			80.0	0.08		0.50	0.32		-	
Fisher's Stouffer'		Power Power	0.022 0.015		Power Power			P-value P-value		Power Power	0.048			er-50% er-50%		P-val: P-val:		0.280 0.084	Power Power	0.061 0.057			r-50% r-50%				0.266 0.109
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2		15.42 20.50 22.08 5.00 9.58	13.52 14.02 15.43 2.81 4.30	5 6 6 4	43.00 30.83 3.75 14.17 1.88	17.42 14.18 1.68 7,21 1.88		0.315 0.341	6 5 6 6	0.42 0.00 0.42 1.25 0.42	0.42 0.00 0.42 0.85 0.42	6 6	0.50 0.00 0.83 0.42 0.00	0.50 0.00 0.83 0.42 0.00	-	- 0 - +	0.900 1.000 0.814 0.462 0.363	6 5 6 6	1.25 2.50 2.08 8.75 15.42	1.25 1.94 1.00 4.69 6.50	6 6	0.00 8.75 9.17 9.58 0.00	0.00 3.15 3.00 4.49 0.00))	 	0.363 0.194 0.055 0.876 0.023
Habitat Mea	ans		14.52	10.00		18.74	8.48	-			0.50	0.42		0.34	0.34		-			6.02	3.08		5.52	2.14	•	-	
Fisher's Stouffer'	's	Power Power	0.102 0.040		Power			P-value P-value		Power Power	0.027 0.059			er-50% er-50%		P-valu P-valu		0.443 0.246	Power Power	0.228 0.021			r-50% r-50%				0.177xy 0.257
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	4 2 4 6 6	1.88 6.25 1.25 5.42 2.50	1.88 6.25 1.25 4.93 1.71	5 4 6 6 4	0.00 5.62 2.08 5.42 0.63	0.00 4.13 2.08 3.56 0.63	- + 	0.936 0.966 0.913	4 2 4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- -		1.000 1.000 1.000 1.000 1.000	4 2 4 6 6	0.00 0.00 3.75 5.00 4.17	0.00 0.00 2.39 3.59 1.90	4 6 6	0.00 10.00 1.25 6.25 0.00	0.00 5.86 1.25 2.87 0.00	; ;	 - + 	1.000 0.183 0.326 0.773 0.077
Habitat Mea	ans		3.48	3.22		2.74	2.08	+			0.00	0.00		0.00	0.00		0			2.60	1.58		3.52	2.02	2	+	
Fisher's Stouffer'	's	Power Power	0.045 0.078		Power			P-value P-value		Power Power				er-50% er-50%		P-val. P-val.		0.732 0.500	Power Power	0.056 0.017			±-50% r-50%				0.240 v 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, only one site pair.

Table C-5.437. Page 1. December 15, 1994

					Nu	cella lamello	sa							Lit	torinidae								M	ollusca				
Site Pair	Mvd	N	С	SE		N O	SE		TV D	P	N	¢	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	cv	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1 1 1 1	6	0.00 0.00 0.00 0.00	0.0 0.0 0.0	0	5 0.00 6 0.00 6 0.00 6 0.00 6 0.00	0.0 0.0 0.0	0	- 0 - 0 - 0 - 0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.42 0.83 0.00	0.00 0.00 0.42 0.83 0.00	6 6	0.00 0.00 0.83 0.00	0.00 0.00 0.53 0.00 0.00	- - -	o - +	1.000 1.000 0.549 0.363 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	0	1.000 1.000 1.000 1.000 1.000
Habitat Mea	ns		0.00	0.0	0	0.00	0.0	0	0			0.24	0.24		0.16	0.10		-			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'		Power Power				Power-50% Power-50%			value value	0.732 0.500	Power Power	0.000			r-50% r-50%		P-valu P-valu		0.608 0.285	Power Power				r-50% r-50%		P-va P- va		0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	6	0.42 0.00 0.00 0.00	0.4 0.0 0.0	10	5 0.00 6 0.00 6 0.00 6 1.25 4 0.00	0.0 0.0 0.0 1.2	10	- · · · · · · · · · · · · · · · · · · ·	0.363 1.000 1.000 0.363 1.000	6 5 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.42 0.00 0.00	0.00 0.00 0.42 0.00 0.00	-	o - 0	1.000 1.000 0.363 1.000	6 5 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000
Habitat Mea	ns		0.08	0.0	8	0.26	0.2	6	+			0.00	0.00		0.08	0.08		-			0.00	0.00		0.00	0.00		o	
Fisher's Stouffer'		Power Power				Power-50% Power-50%			value value	0.632 у 0.719	Power Power				r-50%		P-valu P-valu		0.536 0.417	Power Power				r-50% r-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3		0.00 0.00 0.00 0.00	0.0 0.0 0.0	10	5 0.00 4 0.00 6 0.00 6 0.00 4 0.00	0.0 0.0 0.0	10 10 10	- 0 - 0 - 0 - 0	1.000 1.000 1.000 1.000	4 2 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000	4 2 4 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 6 6 4	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		0	1.000 1.000 1.000 1.000
Habitat Mea	ns		0.00	0.0	0	0.00	0.0	10	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'		Power Power				Power-50% Power-50%				0.732 0.500	Power Power	 			r-50% r-50%				0.732 0.500	Power Power				r-50% r-50%				0.732 0.500

x At least one site pair p-valua < 0.100 in opposite direction of overall tests. y Direction of difference between habitat means is different than direction of overall tests. 2 thly one site pair.

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; 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								Oi	led Rock									Sand					
Site Pair My	rd N	С	SE	N	0	SE	c	V D	P	N	c	SE	N	0	SE	CV	ם	P	Ŋ	С	SE	N	0	82	(v d	P	•
4825C/1424 1 453C/453 1 601C/601 1 598C/598 1 1522C/1522 1	1 6 1 6 1 6 1 6	62.50 44.58 72.50 90.42 57.08	16.48 18.49 12.67 4.85 13.88	6 6	56.50 72.50 75.42 72.92 33.33	17.5 12.9 15.3 13.3	1 2 5	- + - +	0.800 0.241 0.936 0.158 0.282	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0 0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00)]]	- 0		
Habitat Means		65.42	13.30		62.12	15.8	2	+			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00)	0		
Fisher's Stouffer's	Power Power				r-50% r-50%	0.960 0.974		alue alue	0.262 0.237	Power Power				er-50% er-50%		e-valu		0.732 0.500	Power Power	~			r-50% r-50%			zalue zalue		
453C/453 601C/601 598C/598	2 6 2 5 2 6 2 6 2 6	37.08 22.00 64.17 67.50 30.83	15.23 3.48 15.22 12.43 10.70	6 6 6	30.50 40.42 67.92 44.58 23.13	16.3 12.4 13.8 12.1 23.1	.7 - 18 - 5 -	- + + - +	0.671 0.423 0.815 0.207 0.452	6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000 1.000	6 5 6 6	0.42 0.00 0.00 0.00 0.00	0.42 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00)	- · - · · - · · - · ·	1.000	
Habitat Means		44.32	11.40		41.30	15.5	0	+			0.00	0.00		0.00	0.00		0			0.08	0.08		0.00	0.00	ŀ	+		
Fisher's Stouffer's	Power Power				r-50% r-50%	0.942 0.950	P-va	alue alue	0.341	Power Power				er-50% er-50%		-valu -valu		0.732 0.500	Power Power				r-50% r-50%				0.536 0.450	
601C/601 3 598C/598 3 1522C/1522 3	3 4 3 2 3 4 3 6 3 6	35.62 33.75 53.75 44.17 22.50	16.88 23.75 16.28 9.72 8.11	4 6 6 4	21.00 60.62 17.92 23.75 18.12	16.7 14.7 11.5 11.9 16.4	0 - 5 - 7 - 7 -	- + - +	0.425 0.343 0.077 0.140 0.645	4 2 4 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		0 0	1.000 1.000 1.000 1.000	4 2 4 6 6	19.37 0.00 0.00 0.00 24.17	19.37 0.00 0.00 0.00 15.77	4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	i i	- · · · · · · · · · · · · · · · · · · ·	0.391 1.000 1.000 1.000 0.182	
Habitat Means		37.98	14.96		28.28	14.3	0	+			0.00	0.00		0.00	0.00		0			8.72	7.04		0.00	0.00		-		
Fisher's Stouffer's	Power Power				r-50% r-50%	0.866		alue alue	0.063	Power Power		_		::-50% ::-50%		?-valu ?-valu		0.732	Power Power	0.019 0.015		Powe:	r-50% r-50%				0.271 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. 2 Only one site pair.

Table C-5.438, Page 1. December 15, 1994

					She	11 Fragment								_	Water							Zo	stera	/Phyllosp	adix			
Site Pair	Mvc	d N	С	92	N	0	SE	c	ע ע	P	N	С	SE	N	0	SE	Ċν	D	P	N	c	SE	Ŋ	٥	SE	CV	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0	00 00 00	- 0 - 0 - 0	1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000 1.000
Habitat Mea	n.s		0.00	0.00)	0.00	0.0	00	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	S	Power Power				er-50% er-50%		P-v		0.732 0.500	Power Power				er-50% er-50%				0.732 0.500	Power Power			Power	r-50% r-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0	00 00 00	0 0 0 0	1.000 1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		0	1.000 1.000 1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00		0.00	0.0	0	o			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	S	Power Power				er-50% er-50%				0.732 0.500	Power Power				er-50%				0.732 0.500	Power Power			Power	c-50% c-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3	4 2 4 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 6 6 4	0.00 0.00 0.00 0.00 0.00	0.0 0.0 0.0	10 10 10			4 2 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000 1.000	4 2 4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	_	0 0 0	1.000 1.000 1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00		0.00	0.0		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		o	
Fisher's Stouffer'	s	Power Power				er-50% er-50%				0.732 0.500	Power Power				er-50% er-50%				0.732 0.500	Power Power			Power Power					0,732 0.500

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

Table C-5.438. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. August 1992. Overstory removed July 1990. (Continued.)

				Sand	and Mu	đ							Tota:	l Substr	ate									_			
Site Pair Mv	d N	С	SE	N	٥	SE	ÇV	D	P	N	С	SE	N	0	SE	CV	' D	P	N	С	SE	N	0	ge	CV	מ	P
453C/453 1 601C/601 1 598C/598 1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0	0 - 0 - 0 -	0	1.000 1.000 1.000 1.000	6 6 6 6	62.50 44.58 72.50 90.42 57.08	16.48 18.49 12.67 4.85 13.88	6 6	56.50 72.50 75.42 72.92 33.33	17.51 12.91 15.32 13.35 19.95	L - ? -	+ - - +	0.800 0.241 0.936 0.158 0.282									
Habitat Means		0.00	0.00		0.00	0.0	0	0			65.42	13.30		62.12	15.82	2	+										
Fisher's Stouffer's	Power Power			Power-					0.732 0.500	Power Power				r-50% r-50%	0.955 0.964			0.262 0.237	Power Power			Power Power			P-valu P-valu		
598C/598 2		0.42 0.00 0.00 0.00 0.00	0.42 0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00 0.00	0.0 0.0 0.0	0 -	0	0.363 1.000 1.000 1.000	6 5 6 6	37.50 22.00 64.17 67.50 30.83	15.06 3.48 15.22 12.43 10.70	6 6	30.50 40.42 67.92 44.58 23.13	16.31 12.47 13.88 12.15 23.13	7 – 3 – 5 –	+ - + + -	0.648 0.423 0.815 0.207 0.452									
Habitat Means		0.08	0.08		0.00	0.0	0	+			44.40	11.38		41.30	15.60	ו											
Fisher's Stouffer's	Power Power			Power-					0.536 0.450	Power Power				r-50% r-50%	0.962 0.971			0,336 0.236	Power Power			Power Power			P-valu P-valu		
601C/601 3 598C/598 3	4 2 4 6 6	19.37 0.00 0.00 0.00 24.17	19.37 0.00 0.00 0.00 15.77	4 6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0	0 - 0 -	0	1.000	4 2 4 6	55.00 33.75 53.75 44.17 46.67	19.84 23.75 16.28 9.72 13.72	6 6	21.00 60.62 17.92 23.75 18.12	16.74 14.70 11.55 11.97) – 5 – 7 –	+	0.182 0.343 0.077 0.140 0.203									
Habitat Means		8.72	7.114		0.00	0.0	0	+			46.70	16.66		28.28	14.30)											
Fisher's Stouffer's	Power Power	0.023 0.016		Power-		0.020 0.014			0.271 0.346	Power Power				r-50% r-50%				0.017 0.066	Power Power			Power Power			P-valu P-valu		

x At least one site pair p-value < 0.103 in appearing direction of overall tests, y direction of difference between babitat means is different than direction of overall nests, z only one site pair.

Table C-5.439. Aigal 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 ciled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > ciled; - = control < ciled; o : control = ciled; P probability value; dashes = insufficient data.

				Algal	Dive	reity I	ndex (a)						λlga	1 Ta:	xa Richne	ess (b)							To	tal Algae	3			
Site Pair	Mvd	N	c	SE	N	0	SE	CV	D C	P	N	С	SE	N	0	SE	CV I	D	P	N	C	SE	N	0	SE	C	v D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 6 6 6	0.00 0.11 0.00 0.00 0.00	0.00 0.06 0.00 0.00	6 6	0.06 0.00 0.00 0.00	0.06 0.00 0.00 0.00	- - - -	0	0.374 0.095 1.000 1.000	6 6 6 6	0.50 1.33 0.50 0.17 0.67	0.22 0.33 0.22 0.17 0.21	6	0.60 0.33 0.17 0.00 0.50	0.60 0.21 0.17 0.00 0.22	- 4 - 4		0.870 0.030 0.260 0.363 0.600	6 6 6 6	25.00 45.00 3.33 0.42 43.33	11.24 15.18 2.39 0.42 18.01	6 6	7.50 18.33 16.67 0.00 47.08	7.50 16.41 16.67 0.00 21.08	;)	- · · · - · · · · · · · · · · · · · · ·	0.282 0.266 0.617 0.363 0.925
Habitat Mean	s		0.02	0.01		0.01	0.01		+			0.63	0.23		0.32	0.24	-	+			23.40	9.44		17.92	12.34	1	+	
Fisher's Stouffer's		Power Power	0.011		Power					0.384 0.223	Power Power				er-50% er-50%		P-value P-value		0.035 0.014	Power Power	0.29			r-50% r-50%			ralue ralue	0.205 0.095
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	5 6 5	0.00 0.22 0.00 0.00 0.08	0.00 80.0 0.00 0.00 0.05	6 4 5	0.00 0.09 0.07 0.00 0.07	0.00 0.06 0.07 0.00 0.05	-	+ - 0	1.000 0.202 0.391 1.000 0.932	5 6 5	0.80 2.20 0.83 0.80 1.33	0.20 0.37 0.17 0.20 0.21	6 4 5	0.60 1.17 1.00 0.60 1.50	0.24 0.48 0.41 0.24 0.50	- 4 - 1	+	0.545 0.134 0.676 0.545 0.765	5 6 5 6	57.00 49.50 9.58 20.00 55.42	18.83 12.00 5.68 13.94 14.07	6 4 5 6	33.00 15.83 55.63 8.50 83.33	20.22 9.80 22.72 6.10 16.67) ? ?	- ·	0.425 0.040 0.074 0.453 0.167
Habitat Mean	ıs		0.06	0.03		0.05	0.04		•			1.19	0.23		0.97	0.38	•	÷			38.30	12.90		39.24	15.10	J	1	
Fisher's Stouffer's		Power Power	0.043 0.013		Power Power			P-val P-val		0.502 0.310	Power Power	0.376 0.301			er-50% er-50%		P-value P-value		0.259 0.117	Power Power	0.28 0.07			er-50%				0.167×y 0.140
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	5 4 5 4 6	0.08 0.10 0.09 0.19 0.02	0.05 0.07 0.05 0.07 0.02	4 3 5	0.44 0.22 0.10 0.05 0.18	0.11 0.05 0.10 0.05	-	-	0.014 0.208 0.887 0.106 0.025	5 4 5 4 6	1.60 1.75 1.60 2.00 1.00	0.24 0.48 0.24 0.41 0.26	4 3 5	4.33 2.00 1.33 1.20 2.20	1.20 0.00 0.33 0.20 0.49		+	0.027 0.638 0.537 0.101 0.049	5 4 5 4 6	96.50 72.50 49.00 76.25 65.00	3.50 21.19 16.97 20.55 20.22	4 3 5 5	98.33 36.88 70.83 73.00 70.50	1.67 19.37 26.71 17.38 19.27	7 L 3 7	 	0.933 0.257 0.474 0.901 0.730
Habitat Mean	15		0.09	0.05		0.20	0.07		-			1.59	0.33		2.21	0.45		-			71.86	16.50		69,90	16.90	כ	-	
Fisher's Stouffer's		Power Power	0.592		Power Power			P-val P-val		0.005 0.399	Power Power	0.394			er-50% er-50%		P-value P-value		0.039 0.673	Power Power	0.06 0.04			er-50% er-50%				0.639 y 0.673

(a) Modified Shannon Index.(b) Paxa 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 babital means is different than direction of overall tests.
z Only one site pair.

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				Te	otal	Inverteb	rates								Rock								Pere	nnials {	P)			
Site Pair	Mv¢	ı n	c	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	CV I	,	P	N	c	SE	N	0	SB	ÇV	Ð	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6 6	2.92 6.67 5.42 8.75 16.25	1,98 5,73 2,08 2,94 15,26	6 6 6	30.00 7.50 2.08 2.50 5.42	18.9 3.8 1.0 1.2 3.4	7 - D - 9 -	•	0.311 0.717 0.307 0.099 0.576	6 6 6 6	72.08 48.33 91.25 90.83 40.42	10.89 12.31 2.12 2.79 17.00	6 6	62.50 74.17 81.25 97.50 47.50	17.41 15.61 16.28 1.29	3 - • 9 - •	0.	.741 .252 .769 .073	6 6 6 6	25.00 45.00 3.33 0.42 43.33	11.24 15.18 2.39 0.42 18.01	6 6	7.00 18.33 16.67 0.00 47.08	7.00 16.41 16.67 0.00 21.08	-	-	0.269 0.266 0.617 0.363 0.925
Habitat Mea	ns		8.02	5.60		9.50	5.7	2	١			68.58	9.02		72.60	13.88	3 -	-			23.40	9.44		17.82	12.24		-	
Fisher's Stouffer'	s	Power Power				er-50% er-50%	0.516			0.198 y 0.097	Power Power				er-50% er-50%	0.981	P-value P-value		.155 .027	Power Power	0.30			r-50% r-50%				0.200
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	6 5	2.00 6.50 16.25 22.50 20.00	1.46 3.59 6.01 15.71 11.22	6 4 5	11.50 23.75 6.88 7.00 0.83	4.4 7.7 3.1 2.6 0.8	9 - 3 - 7 -	++	0.073 0.079 0.369 0.326 0.070	5 6 5 6	41.00 44.00 74.17 57.50 24.58	17.62 10.51 8.51 18.23	6 4 5	55.50 60.42 37.50 84.50 15.83	17.68 10.33 21.7 8.19 15.83	2 7 9	- 0. - 0.	.600 .263 .117 .199	5 6 5	57.00 49.50 9.58 20.00 51.25	18.83 12.00 5.68 13.94 14.81	6 4 5	33.00 5.83 55.63 8.50 80.42	20.22 3.46 22.72 6.10 16.26	-	+ + +	0.425 0.003 0.074 0.453 0.200
Habitat Mea	ns		13.46	7.60)	10.00	3.7	6	٠			48.26	13.02		50.74	14.7	5 -	-			37.48	13.04		36.66	13.76		+	
Fisher's Stouffer'	s	Power Power				er-50% er-50%	0.505 0.622			0.179x 0.434	Power Power				er-50% er-50%		P-value P-value		.309 .130	Power Power				r-50% r-50%				0.034× 0.054
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	4	0.00 0.00 1.00 5.00 0.42	0.00 0.00 0.61 5.00 0.42	. 3 . 5	0.00 6.88 0.00 0.00 2.50	0.0 3.4 0.0 0.0 2.5	4 - 0 - 0 -		0.089 0.178	5 4 5 4 6	3.50 27.50 50.00 18.75 23.75	3.50 21.19 17.05 15.60 15.24	4 3 1 5	1.67 56.25 4.17 1.00 27.00	1.6° 17.2° 2.2° 0.6° 18.6°	8 - - 0 1	0.	.933 .325 .114 .340 .991	5 4 5 4 6	82.50 71.88 19.00 47.50 65.00	12,92 20.95 6.35 14.75 20.22	4 3 5	82.50 31.25 68.33 70.50 67.50	11.81 21.47 29.20 18.19 18.25	- - -	+	0.898 0.213 0.075 0.276 0.917
Habitat Mea	ns		1.28	1.20]	1.88	1.1	8	-			24.72	14.52		18.04	8.1		٠			57.18	15.06		64.02	19.80		-	
Fisher's Stouffer'	9	Power Power				er-50% er-50%	0.056 0.104	P-va P-va		0.369 0.479	Power Power				er-50% er-50%		P-value P-value		.251 .276	Power Power	0.13 0.08			er-50% er-50%				0.177 0.262

 $[\]kappa$ At least one site pair p-value < 0.100 in opposite direction of overall tests. y Direction of difference between habitat means is different than direction of overall tests. Tonly one site pair.

Table C-5.439. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed May 1991. (Continued.)

Annuals (A)												Ephei	merals (AE)														
Site Pair 1	Mvd	A N	c	SE	N	0	SE	CV	D	P	И	с	SE	N	0	SE	cv	D	P	N	С	SE	Ŋ	0	SE	CV	, p	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6	0.50 0.00 0.00 0.00	0.5 0.0 0.0 0.0	0 ~ 0 - 0 -	0	0.374 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.50 0.00 0.00 0.00	0.50 0.00 0.00 0.00	-	0	0.374 1.000 1.000 1.000	. ,, ,			_				_	
Habitat Means	ıs		0.00	0.00	ı	0.10	0.1	0	_			0.00	0.00		0.10	0.10		_										
Fisher's Stouffer's		Power Power				r-50% r-50%		P-val			Power Power				r-50% r-50%		P-val		0.542	Power Power			Power Power			P-va P-va		
598C/598	2	5 6 5	0.00 0.00 0.00 0.00 4.17	0.00 0.00 0.00 0.00 2.71	6 4 5	0.00 10.00 0.00 0.00 2.92	0.00 9.00 0.00 0.00 2.45	4 - 0 - 3 -	0	1.000 0.253 1.000 1.000 0.794	5 5 5 6	0.00 0.00 0.00 0.00 1.67	0.00 0.00 0.00 0.00 1.67	6	0.00 10.00 0.00 0.00	0.00 9.04 0.00 0.00	-	0	1.000 0.253 1.000 1.000 0.363					304		, ,	· · · · · ·	
Habitat Means	s		0.84	0.54		2.58	2.30)	-			0.34	0.34		2.00	1.80		_										
Fisher's Stouffer's		Power Power	0.001			r-50% r-50%		P-val:			Power Power	0.000			r-50% r-50%		P-val		0.561	Power			Power Power			P-va P-va		
453C/453 601C/601 598C/598	3 3 3 3	5	14.00 0.63 30.00 28.75 0.00	13.38 0.63 17.87 14.88 0.00	4 3 5	15.83 5.63 2.50 2.50 3.00	12.28 3.59 2.50 2.50 2.42) -) -	+	0.751 0.277 0.326 0.070 0.218	4 5	14.00 0.00 30.00 28.75 0.00	13.38 0.00 17.87 14.88 0.00	3 5	0.00 5.63 2.50 2.50 2.00	0.00 3.59 2.50 2.50 2.00	-	+	0.297 0.192 0.326 0.070 0.374									
Habitat Means	s		14.68	9.36		5.88	4.66	5	-			14.56	9.24		2.52	2.12												
Fisher's Stouffer's		Power Power	0.037 0.021			r-50% r-50%	0.064 0.203				Power	0.038 0.01R			r-50% r-50%	0.022	P-val			Power			Power			P-va		

x At least one site pair p-value < 0.100 m opposite direction of 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										Morph	cal	Group: B	laded Gr	Bladed Greens (AE) (a)													
Site Pair	Mvd	N	С	SE	N	0	9E	CA	D	P	N	с	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	ÇV	Ď	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522		6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.50 0.00 0.00 0.00 0.00	0.50 0.00 0.00 0.00 0.00			0.374 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000 1.000
Habitat Mean	ns		0.00	0.00		0.10	0.10		-			0.00	0.00		0.00	0.00		Q			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	ŝ	Power Power			Power Power			P-val P-val		0.542 0.451	Power Power				er-50% er-50%		P-val: P-val:		0.732 0.500	Power Power				r-50% r-50%		P-val P-val		0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2	5 5 6 5	0.00 0.00 0.00 0.00 4.17	0.00 0.00 0.00 0.00 2.71	6 4 5	0.00 10.00 0.00 0.00 2.50	0.00 9.04 0.00 0.00 2.50	-	0 - 0 0 +	1.000 0.253 1.000 1.000 0.608	5 5 6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00			1.000 1.000 1.000 1.000 1.000	5 5 6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	€ 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	0	1.000 1.000 1.000 1.000 1.000
Habitat Mean	ns		0.84	0.54		2.50	2.30		-			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	s	Power Power	0.000		Power Power			P-val P-val		0.530	Power Power				er-50% er-50%		P-val: P-val:		0.732 0.500	Power Power				r-50% r-50%		P-val P-val		0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3		14.00 0.63 30.00 28.75 0.00	13.38 0.63 17.87 14.88 0.00	4 3 5	0.00 5.63 2.50 2.50 2.00	0.00 3.59 2.50 2.50	-	+	0.297 0.277 0.326 0.070 0.374	5 4 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0	1.000 1.000 1.000 1.000 1.000	5 4 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000 1.000 1.000
Habitat Mean Fisher's Stouffer's		Power Power	0.058 0.053	9.36	Power Power			P-vai P-val		0,137 0.154	Power Power	0.00	0.00		0.00 er-50% er-50%				0.732 0.500	Power Power	0,00		Powe:	r-50% r-50%				0.732 0.500

(a) Kormmennia, Monostrosa, fiva 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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		Morpholo	gical (Iroup:	Fine !	e Filamentous Greens					Acrosiphonia sp. (A)										Chaetomorpha/Rhizoclonium (A) (a)									
Site Pair My	vd N	c	SE	N	0	SE	CV	D	P	N	c	SE	N	0	SE	cv	D	P	N	C	SE	N	D	SE	CV	ם	P			
	1 6 1 6 1 6 1 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	00 - 00 -		1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000			
Habitat Means		0.00	0,00		0.00	0.0	00	0			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		0				
Fisher's Stouffer's	Power Power			Power Power			P-va P-va		0.732 0.500	Power Power				r-50% r-50%		-val		0.732 0.500	Power Power			Power Power	1-50% 1-50%		-valu		0.732 0.500			
453C/453 2 601C/601 2 598C/598 2	2 5 2 5 2 6 2 5 2 6	0.00 0.00 0.00 0.00 4.17	0.00 0.00 0.00 0.00 2.71	6 4 5	0.00 10.00 0.00 0.00 2.50	0.0 9.0 0.0 2.5)4 –)0 –)0 –	0 - 0 0 +	1.000 0.253 1.000 1.000 0.608	5 5 6 5 6	0.00 0.00 0.00 0.00 2.50	0.00 0.00 0.00 0.00 2.50	6 4 5	0.00 0.00 0.00 0.00 2.50	0.00 0.00 0.00 0.00 2.50	- - -	0	1.000 1.000 1.000 1.000	5 6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	=	0	1.000 1.000 1.000 1.000			
Habitat Means		0.84	0.54		2.50	2.3	30	-			0.50	0.50		0.50	0.50		0			0.00	0.00		0.00	0.00		0				
Fisher's Stouffer's	Power Power			Power Power		0.001	P-va P-va		0.530 0.308	Power Power				r-50% r-50%		-val -val		0.732 0.500	Power Power				-50% -50%		P-val.		0.732 0.500			
453C/453 3 601C/601 3 598C/598 3	3 5 3 4 3 5 3 4 3 6	14.00 0.63 30.00 28.75 0.00	13.38 0.63 17.87 14.88 0.00	4 3 5	0.00 5.63 2.50 2.50 2.00	0.0 3.5 2.5 2.5	i0 - i0 -		0.297 0.277 0.326 0.070 0.374	5 4 5 4 6	0.00 0.63 0.00 0.00	0.00 0.63 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	0	1.000 0.391 1.000 1.000	5 4 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000			
Habitat Means		14.68	9.36		2.52	2.1	12	+			0.12	0.12		0.00	0.00		+			0.00	0.00		0.00	0.00		ō				
Fisher's Stouffer's	Power Power			Power Power		0.060 0.223			0.137 0.154	Power Power				r-50% r-50%		-val -val		0.550 0.325	Power Power			Power Power			-valu -valu		0.732 0.500			

⁽e) Genera not separated.
x At least one site pair p value < 0.100 in opposite direction of overall tests.</p>
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. (Continued.)

				C1	adopho	ora sp.	(AE)						ū	loth	rix sp. (A	LE)						t	rospo	гавр. (AE)			
Site Pair	Mvd	N	c	SE	N	0	SE	ÇV	D	р	N	c	SE	N	0	SE	CΛ	Ð	P	N	С	SE	N	0	SE	CV	ם	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	11	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 .	1.000 1.000 1.000 1.000 1.000
Habitat Mea	ırs		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'		Power Power			Power					0.732	Power Power				er-50% er-50%		P-val P-val		0.732 0.500	Power Power			Power Power			P-valu P-valu		
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 1.67	6 4 5	0.00 10.00 0.00 0.00	0.00 9.00 0.00 0.00	- -	0	1.000 0.253 1.000 1.000 0.363	5 6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000 1.000	5 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mea	ans		0.34	0.34		2.00	1.80	1	_			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'		Power Power	0.000		Power			P-val P-val		0.561 0.338	Power Power				er-50% er-50%		P-val P-val		0.732 0.500	Power Power				-50% -50%		P-valu P-valu		
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3	5 4 5 4	14.00 0.00 30.00 28.75 0.00	13.38 0.00 17.87 14.88 0.00	4 3 5	0.00 5.63 2.50 2.50 2.00	0.00 3.59 2.50 2.50) -) -	+	0.297 0.192 0.326 0.070 0.374	5 4 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0	1.000 1.000 1.000 1.000 1.000	5 4 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	3 5 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0	1.000 1.000 1.000 1.000 1.000
Habitat Mea	ans		14.56	9.24		2.52	2.13	2	+			0.00	0.00		0.00	0.00		Ó			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	′ e	Power Power	0.035 N n15		Power		0.017 0.072			0.141 0.183	Power Power				er-50% er-50%		P-va P-va		0.732 0.500	Power Power				r-50% r-50%				0.732 0.500

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

Table C 5.440. Page 3. Secember 15, 1994

2 Oxly one site	,	Mo	rphologic	al Gr	oup:	Tubular a	and Sac	cate	Gre	ens		B1:	idingi	a/Ent	eromorphe	a (AE) (a)											
Site Pair	Mvd			SE	N	0	SE	cv	D	P	N	¢	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	CV	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.50 0.00 0.00 0.00 0.00	0.50 0.00 0.00 0.00	- -	0	0.374 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.50 0.00 0.00 0.00 0.00	0.50 0.00 0.00 0.00 0.00		0	0.374 1.000 1.000 1.000 1.000									
Habitat Mea	ns		0.00	0.00		0.10	0.10)	-			0.00	0.00		0.10	0.10		-										
Fisher's Stouffer'		Power Power				er-50% er-50%				0.542 0.451	Power Power				r-50% r-50%		P-val P-val		0.542 0.451	Power Power			Power Power			P-valu P-valu		
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2	5 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00) -) -	0	1.000 1.000 1.000 1.000	5 5 6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0	1.000 1.000 1.000 1.000									
Habitat Mea	ns		0.00	0.00		0.00	0.00)	0			0.00	0.00		0.00	0.00		0										
Fisher's Stouffer'		Power Power				er-50% er-50%				0.732 0.500	Power Power				2-50% 2-50%		P-val P-val		0.732 0.500	Power Power			Power			P-valu P-valu		
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3	5 4 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 1 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) -	0	1.000 1.000 1.000 1.000	5 4 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000 1.000									
Habitat Mea	ans		0.00	0.00	1	0.00	0.00)	0			0.00	0.00		0.00	0.00		0										
Fisher's Stouffer'	's	Power Power				er-50% er-50%				0.732 0.500	Power Power				er-50% er-50%				0.732 0.500	Power Power			Power			P-valu P-valu		

(a) Genera not separated.

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

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	Phaeoph	yt a					Morg	hologi	cal	Group:	Bladed Br	OWILE					Total	l Fuct	us gardn	eri (P)			
Site Pair	Mvd	N	c	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	СV	D	Р	N	С	SE	N	0	SE	C١	, D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1 1	6 6	25.00 38.75 2.92 0.42 43.33	11.24 14.69 2.45 0.42 18.01	6 6 6	5.50 18.33 16.67 0.00 47.08	5.50 16.41 16.67 0.00 21.08	-	+	0.229 0.350 0.556 0.363 0.925	6 6 6	25.00 38.75 2.92 0.42 43.33	11.24 14.69 2.45 0.42 18.01	6	5.50 18.33 16.67 0.00 47.08	5.50 16.41 16.67 0.00 21.08	-	+ - +	0.229 0.350 0.556 0.363 0.925	6 6 6 6	25.00 38.75 2.92 0.42 43.33	11.24 14.69 2.45 0.42 18.01	6 6 6	5.50 18.33 16.67 0.00 47.08	5.50 16.41 16.67 0.00 21.08	 7 - 9 -	· ·	0.229 0.350 0.556 0.363 0.925
Habitat Mea	ກຣ		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 Stouffer'		Power	0.237			r-50% r-50%				0.217 0.113	Power Power	0.248 0.259			er-50% er-50%		P-valı P-valı		0.217 0.113	Power Power	0.23			r-50% r-50%	0.540 0.688			
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	5 6 5	57.00 39.50 9.58 20.00 51.25	18.83 12.13 5.68 13.94 14.81	6 4 5	33.00 5.00 51.88 8.50 78.33	20.22 2.66 23.99 6.10 16.16	- -	-	0.425 0.012 0.101 0.453 0.234	5 6 5 6	57.00 39.50 9.58 20.00 51.25	18.83 12.13 5.68 13.94 14.81	6 4 5	33.00 5.00 51.88 8.50 78.33	20.22 2.66 23.99 6,10 16.16	-	_	0.425 0.012 0.101 0.453 0.234	5 5 6	57.00 39.50 9.58 20.00 51.25	18.83 12.13 5.68 13.94 14.81	6 4 5	33.00 5.00 51.88 8.50 78.33	20.22 2.66 23.99 6.10 16.16	; ; ;	+ - - - -	0.425 0.012 0.101 0.453 0.234
Habitat Mea	ıns		35.48	13.06		35.34	13.84		-			35.48	13.06		35.34	13.84		+			35.48	13.06		35.34	13.84	1	+	
Fisher's Stouffer'		Power Power				r-50% r-50%				0.082	Power Power				er-50% er-50%		P-val		0.082 0.081	Power Power				r-50% r-50%				0.082 0.081
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	4 5 4	82.00 58.13 18.00 46.88 64.17	12.76 22.44 6.96 15.01 20.03	4 3 5	51.67 28.13 68.33 70.50 57.00	15.30 20.70 29.20 18.19 17.77) –) –	-	0.151 0.308 0.073 0.269 0.773	5 4 5 4	82.00 58.13 18.00 46.88 64.17	12.76 22.44 6.96 15.01 20.03	4 3 5	51.67 28.13 68.33 70.50 57.00	15.30 20.70 29.20 18.19 17.77	- - -	-	0.151 0.308 0.073 0.269 0.773	5 4 5 4 6	82.00 58.13 18.00 46.88 64.17	12.76 22.44 6.96 15.01 20.03	4 3 5 5	51.67 28.13 68.33 70.50 57.00	15.30 20.70 29.20 18.19 17.70	7		0.151 0.308 0.073 0.269 0.773
Habitat Mea	าร		53.84	15.44		55.12	20.24		+			53.84	15.44		55.12	20.24		+			53.84	15.44		55.12	20.24	9	+	
Fisher's Stouffer'		Power	0.047			r-50% r-50%	0.380 0.504			0.344×y 0.682	Power Power	0.049			er-50% er-50%		P -va l P-val		0.344 _{xy} 0.682	Power Power	0.04			r-50%				0.344xv 0.682

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

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z Only one site	p+11.		A.đ	ult Fu	cus g	ardneri	(P) (> 2	(cm)				Juven	ile F	icus :	gardneri	(P) {<=	2cm)					Fu	cus St	tipes (P)	(a)			
Site Pair	Mvđ	N	С	SE	N	0	SE		D	P	N	С	SE	N	0	SE	CA	D	P	N	с	SE	Ŋ	0	SE	CV	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6 6 6	25.00 38.75 2.50 0.00 43.33	11.24 14.69 2.50 0.00 18.01	6 6 6	5.50 18.33 16.67 0.00 47.08	5.50 16.41 16.6 0.00 21.08	1 - 7 - 0 -	_	0.229 0.350 0.498 1.000 0.925	6 6 6	0.00 0.00 0.42 0.42 0.00	0.00 0.00 0.42 0.42 0.00	5 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 +	1.000 1.000 0.363 0.363 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000 1.000
Habitat Mea	ns		21.92	9.28		17.52	11.9	1	-			0.16	0.16		0.00	0.00		+			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power	0.133 0.125			r-50% r-50%				0.356	Power Power				r-50% r-50%		P-val: P-val:		0.359 0.180	Power Power				r-50% r-50%		-val -val		0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	5	54.00 39.50 9.58 18.50 50.00	17.30 12.13 5.68 14.29 15.51	6 4 5	33.00 3.33 51.88 8.50 78.33	20.23 2.03 23.99 6.10	1 - 9 - 0 -	+ - +	0.508 0.007 0.101 0.552 0.219	5 5 5 5 6	3.00 0.00 0.00 1.50 1.25	3.00 0.00 0.00 1.50	6 4 5	0.00 1.67 0.00 0.00 0.00	0.00 1.05 0.00 0.00	-	Q	0.374 0.175 1.000 0.374 0.363	5 6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1,000 1,000 1,000 1,000
Habitat Mea	_		34.32	12.98		35.00	13.7	0	+			1.16	1.16		0.34	0.22		+			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'		Power Power				r-50% r-50%		P-va P-va		0.073 y 0.087	Power Power	0.013			r-50% r-50%		P-valı P-valı		0.306	Power Power				r-50% r-50%		e-val		0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	5 4 5 4 6	82.00 58.13 18.00 46.88 63.75	12.76 22.44 6.96 15.01 20.29	4 3 5	51.67 26.88 68.33 70.50 57.00	15.3 21.1 29.2 18.1 17.7	5 - 0 - 9 -	+ - -	0.151 0.276 0.073 0.269 0.832	5 4 5 4 6	0.00 0.00 0.00 0.00 0.42	0.00 0.00 0.00 0.00	4 3 5	0.00 1.25 0.00 0.00 0.00	0.00 0.72 0.00 0.00 0.00	-	0	1.000 0.182 1.000 1.000 0.363	5 4 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	3 5 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0	1.000 1.000 1.000 1.000
Habitat Mea	ns		53.76	15.50		54.88	20.3	4	+			0.08	0.08		0.26	0.14		-			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'		Power Power				r-50% r-50%	0.674			0.338xy 0.674	Power Power	0.000			er-50% er-50%				0.499	Power Power				r-50% r-50%				0.732

⁽a) Dead Pucus 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 overal) tests. z Only one site pair.

Table C-5.441. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed May 1991. (Continued.)

		P	Petalo	nia/Pu	nctaria	(AE) (b)			М	rphologic	al Gr	oup:	Coarse E	Pilament	ous Br	ow	28			D	ctyosi	phon sp.	{A}			
Site Pair Mv	q N	С	SE	Я	٥	SE	CA	D	P	N	c	SE	N	0	SE	CV I	D	P	N	С	SE	N	0	SE	Ċν	D	P
4825C/1424 1 453C/453 1 601C/601 1 598C/598 1 1522C/1522 1	6 6 6 6	C.00 C.00 C.00 C.00	0.00 0.00 0.00 0.00	5 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 6 - 6	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	6) 6) 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000
Habitat Means		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	(0			0.00	0.00)	0.00	0.00		0	
Fisher's Stouffer's	Power Power			Power Power			P-val		0.732 0.500	Power Power				r-50% r-50%		P-value		0.732 0.500	Power Power			Power Power					0.732 0.500
598C/598 2	5 5 5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	0	1.000 1.000 1.000 1.000	5 6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 6	0	1.000 1.000 1.000 1.000	5 6 5 6	0.00 0.00 0.00 0.00	0.00	6 3 4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Means		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0,00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Power Power			Power Power		:	-val		0.732 0.500	Power Power				r=50% r=50%		P-value P-value		0.732 0.500	Power Power			Power Power			P-va P-va		0.732 0.500
601C/601 3 598C/598 3	5 4 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	0	1.000 1.000 1.000 1.000	5 4 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- « - «	0	1.000 1.000 1.000 1.000	5 4 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0 4 0 3 0 5 0 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000
Habitat Means		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	•	0			0.00	0.00)	0.00	0.00		0	
Fisher's Stouffer's	Power Power			Power Power					0.732 0.500	Power Power				r-50% r-50%		?-value ?-value		0.732 0.500	Power Power			Power	-50% -50%		P-val P-val		0.732 0.500

(b) Genera not separated.

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

Table C 5.441. Page 3. December 15. 1994

				Mye	lophy	rcus/8	Scytosipho	n. (A)	(a)			1	Morpholog	ical (roup:	Fine F	ilamento	us Br	OWI	18		Fi	ne Fila	ament	ous Brown	a (AE)	(b)		
ite Pair	Mvd	1 N	c		SE	N	0	-E	СV	Ď	P	N	c	SE	N	0	SE	ĊV	D	P	N	c	SE	N	0	SE		ם עב	1	,
25C/1424 3C/453 1C/601 8C/598 22C/1522	1 1 1	6 6 6 6	0.00 0.00 0.00 0.00	 	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0 - 0 - 0 -	0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0	- 0 - 0 - 0 - 0		000
bitat Mea	ns		0.00	I	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00	O	0		
Fisher's Stouffer's	\$	Power Power					r-50% r-50%				0.732 0.500	Power Power			Power Power			-val		0.732 0.500	Power Power				r-50% r-50%			value value		
825C/1424 63C/453 01C/601 88C/598 622C/1522	2 2 2	5 6 5 6	0.00 0.00 0.00 0.00))	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.0 10.0 10.0) -) -	0	1.000 1.000 1.000 1.000	5 5 5 6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	5 6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00		- 0 - 0 - 0	1.0	000
bitat Mea	ns		0.00	ı	0.00		0.00	0.0)	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	9	0		
Fisher's Stouffer's	ş	Power Power					r-50% r-50%				0.732 0.500	Power Power			Power Power			-val		0.732 0.500	Power Power				r-50% r-50%			value value	0.5	
325C/1424 53C/453 01C/601 98C/598 522C/1522	3	5 4 5 4 6	0 . 00 0 . 00 0 . 00 0 . 00	 	0.00 0.00 0.00 0.00	4 3 5	0.CO 0.CO 0.CO 0.CO	0 .00 10 .0 10 .0 10 .0) -) -	0	1.000 1.000 1.000 1.000	5 4 5 4 6	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	1.000 1.000 1.000 1.000	5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	0	- 0 - 0 - 0 - 0	1.0 1.0 1.0 1.0	000
abitat Mea	ns		0.00	+	0.00		0.00	0.0)	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	C	0		
Fisher's	-	Power					r-50% r-50%				0.732 0.500	Power Power			Power Power			-val		0.732 0.500	Power Power				r-50% r-50%			value value	0.5	

(a) Geneta not separateu.

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

Table C-5.441. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed May 1991. (Continued.)

			Morpl	hologi	ca1	Group: Sac	cate	Brown				1	eather	ia/C	Colpomenia	(A) (a	,					SOLE	nener	1 0140100	a (n)			
Site Pair	Mvd	ı N	С	SE	N	0	SE	cv	D	P	N	c	SE	N	0	SE	cv	D	P	N	С	SB	N	0	SE	cv	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	10 -	0 0 0 0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	1	00000	1.000 1.000 1.000 1.000 1.000	6 6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0	1.000 1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'		Power Power				er-50% er-50%		P-va P-va		0.732 0.500	Power Power				er-50% er-50%		P-val		0.732	Power Power			Power	-50% -50%				0.732 0.500
4325C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2	5 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00 0.00	0.0 0.0 0.0	10 -	0	1.000 1.000 1.000 1.000	5 5 6 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	0 0 0 0	1.000 1.000 1.000 1.000 1.000	5 6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	s	Power Power				er-50% er-50%		P-va P-va		0.732 0.500	Power Power				er-50% er-50%		P-val P-val		0.732 0.500	Power Power				r-50% r-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3	5 4 5 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.0 0.0 0.0	00 - 00 - 00 -	0	1.000	5 4 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0 0	1.000 1.000 1.000 1.000 1.000	5 4 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000
Nabitat Med	ins		0.00	0.00	,	0.00	0.0	0.0	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	s	Power Power				er-50% er-50%				0.732 0.500	Power Power				er-50% er-50%		P-val P-val		0.732	Power Power				r-50% r-50%				0.732 0.500

(a) Senera not separated.

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

Table 0-5.441. Page 5. Decomber 15, 1994

z Only one sice			Morph	ologic	al Gr	oup: Cru	stose B	LOMITE				Ralfe	ia/Pe	troderma	(P) (a)												
Site Pair	Mvd	N	c	SE	И	0	SE	CA	D i	N	c	SE	N	0	SE	CV I	D .	P	N	С	SE	N	0	SE	(CV D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	o 1.0 o 1.0 o 1.0 o 1.0	000 6 000 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- (0 0	1.000 1.000 1.000 1.000 1.000									
Habitat Mea	ns		0.00	0.00		0.00	0.00		0		0.00	0.00		0.00	0.00		C)										
Fisher's Stouffer'		Power Power				r-50% r-50%)							r-30% r-50%		-value			Power Power			Power Power				value value	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2	5 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	o 1. o 1. o 1. o 1. o 1.	000 5 000 6 000 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 6	0	1.000 1.000 1.000 1.000 1.000									
Nabitat Mea	ns		0.00	0.00		0.00	0.00		0		0.00	0.00		0.00	0.00	4	Q										
Fisher's Stouffer'		Power Power				r-50% r-50%			e 0.					r-30% r-30%		-value -value		0.732 0.500	Power Power			Power Power				value value	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3	5 4 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	o 1. o 1. o 1. o 1.	000 4 000 5 000 4	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- e	0 0	1.000 1.000 1.000 1.000 1.000									
Habitat Mea	ans		0.00	0.00	I	0.00	0.00		0		0.00	0.00		0.00	0.00		0										
Fisher's Stouffer'		Power Power				r-50% r-50%			e 0.					r-50% r-50%		P-valu P-valu			Power Power			Power Power				value 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-5.442. 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 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.

				,	rotal R	hodoph	yta					Morg	holog	ical	Group: B	laded F	teds						Bangi	а вр. (А)	E)			
Site Pair	Mvd	. ж	С	SE	N	0	SE	CV	Đ	P	N	c	SE	N	0	SE	ÇV	D	P	N	c	SE	N	0	SE	CV	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6 6 6	0.00 6.25 0.42 0.00 0.00	0.00 3.58 0.42 0.00 0.00	6 6	1.50 0.00 0.00 0.00 0.00	1,50 0.00 0.00 0.00	-	+ + 0	0.374 0.094 0.363 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mea	ans		1.34	0.80	Power-	0.30	0.30		+	0.240	Power	0.00	0.00	Powe	0.00 r-50%	0.00	P-val		0.732	Power	0.00	0.00	Power	0.00		P-va		0.732
Fisher's Stouffer'		Power Power	0.006		Power-					0.165	Power			Powe	r-50%		P-vaî	ue	0.500	Power				r-50%				0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	6	0.00 10.00 0.00 0.00	0.00 3.79 0.00 0.00 0.00	6 4 5	0.00 0.83 3.75 0.00 2.50	0.00 0.83 3.75 0.00 1.71	-	-	1.000 0.019 0.391 1.000 0.183	5 6 5	0.00 0.50 0.00 0.00	0.00 0.50 0.00 0.00	6	0.00 0.00 0.00 0.00 0.42	0.00 0.00 0.00 0.00	-	0 0	1.000 0.374 1.000 1.000 0.363	5 6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mea	_	Ü	2.00	0.76		1.42	1.26	i	_			0.10	0.10		0.08	0.08		-			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'		Power	0.002		Power-			P-val P-val		0.370xy 0.779	Power Power				r-50% r-50%		P-val P-val		0.630 y 0.611	Power Power				r-50% r-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3	5 4 5 4	0.50 13.75 1.00 0.63 0.83	0.50 12.93 1.00 0.63 0.83	4 3 5	46.67 3.13 0.00 0.00 11.50	14.02 1.88 0.00 0.00 4.78) -) -	+	0.001 0.593 0.374 0.391 0.026	5 4 5 4 6	0.50 0.00 0.00 0.00 0.00	0.50 0.00 0.00 0.00 0.00	4 3 5	5.83 0.00 0.00 0.00 0.00	3.63 0.00 0.00 0.00	- - -	0	0.111 1.000 1.000 1.000 1.000	5 4 5 4 6	0.00 0.00 0.00 0.00	0.00	4 3 5 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0	1.000 1.000 1.000 1.000 1.000
Habitat Mea		Power	3.34 0.000 n nor		Power-			P-val		0.525×y 0.410	Power Power	0.10 0.057 0.016	0.10		1.16 er-50% er-50%		P-val		0.333 0.413	Power Power	0.00		Powe	0.00 r-50% r-50%		P-va		0.732 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 wice pair.

Table C-5.442. Page 1. December 15, 1994

2 Daily Old 8108	Gigartinaceae Group (F) (a)												P	almar	ia spp. ((A)						Phy	rcodry	ya riggii	(A)			
Site Pair	Mvd	N	С	SE	N	0	SE	ÇV	D	P	N	С	ge.	N	0	SE	cν	D	P	N	С	SE	И	0	SE	ÇV	D	Р
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000
Habitat Mea	ns	-	0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'		Power Power			Power	-50% -50%				0.732 0.500	Power			Power Power			P-valu P-valu		0.732 0.500	Power Power				r-50% r-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2	5 5 6 5	0.00 0.50 0.00 0.00	0.00 0.50 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 0.374 1.000 1.000 0.363	5 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	ŝ	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000 1.000	5 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mea	_	U	0.10	0.10	Ü	0.08	0.08		_			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer		Power Power				c-50% c-50%				0.630 y 0.611	Power Power			Power			P-valu P-valu		0.732 0.500	Power Power				r-50% r-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3	5 4 5 4 6	0.50 0.00 0.00 0.00	0.50 0.00 0.00 0.00	4 3 5	1.67 0.00 0.00 0.00 0.00	1.67 0.00 0.00 0.00	- - -	0	0.554 1.000 1.000 1.000	5 4 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	1.67 0.00 0.00 0.00 0.00	1.67 0.00 0.00 0.00	-	0	0.423 1.000 1.000 1.000	5 4 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	1.67 0.00 0.00 0.00	1.67 0.00 0.00 0.00	-	0 0	0.423 1.000 1.000 1.000
Habitat Mea	ans		0.10	0.10		0.34	0.3	l	-			0.00	0.00		0.34	0.34		-			0.00	0.00	_	0.34	0.34		-	0 565
Fisher's Stouffer	's	Power Power				r-50% r-50%				0.618 0.467	Power Power			Power Power					0.565 0.456	Power Power				r-50% r-50%				0.565 0.456

(a) Chondrus, Tridaea, Mastocarpus and Rhodoglossum.

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

Table C-5.442. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed May 1991. (Continued.)

				1	Porph	yra sp. (1	A)						Rhod	lymen	ia pertus	a (A)						Tokida	dendro	n kurile	nsis (A)			
Site Pair	Mvd	N	c	SE	N	0	SE	CV	D	P	N	c	SE	N	0	SE	CV 1	D	P	N	c	SE	N	0	SE	ĊΫ	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0	1.000 1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c	0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mean	15		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	•	0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power				r-50% r-50%		P-val P-val		0.732 0.500	Power Power				er-50% er-50%		P-value P-value		0.732 0.500	Power Power			Power	-50% -50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2		0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	00000	1.000 1.000 1.000 1.000	5 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	- c	0	1.000 1.000 1.000 1.000 1.000	5 6 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- " -	0	1.000 1.000 1.000 1.000 1.000
Habitat Mean	ıs		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power				r-50% r-50%		P-val P-val		0.732 0.500	Power Power				er-50% er-50%		P-value P-value		0.732 0.500	Power Power			Powe:	-50% -50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	5 4	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000	5 4 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		0	1.000 1.000 1.000 1.000 1.000	5 4 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	3 5	0.83 0.00 0.00 0.00	0.83 0.00 0.00 0.00	-	0 0 0	0.423 1.000 1.000 1.000 1.000
Habitat Mean	18		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.16	0.16		-	
Fisher's Stouffer's	5	Power Power				r-50% r-50%				0.732 0.500	Power Power				er-50% er-50%		P-valu P-valu		0.732	Power Power				r-50% r-50%		P-valu P-valu		0.565 0.456

At least one site pair p-value < 0.100 in opposite direction of overall masts. Direction of difference between babitst means is different than direction of overall tests.

Articulate Coralline Algae (A) Cryptosiphonia woodii (A) Morphological Group: Coarse Filamentous Reds SE CV D P CA D P N C SR a CV D P N ¢ 0 SE Site Pair Mvd N ¢ SE N n 1.000 0.00 0.00 0.00 0.00 1.000 0.00 0.00 0.000.00 0.00 1.000 4825C/1424 0.00 0.00 0.00 0 0.00 0.00 - 0 1.000 1.25 0.00 0.00 0.00 0.00 -0 1.000 0.00 0.00 0.00 0.00 0.363 1.25 453C/453 0.00 0.00 0.00 - 0 1.000 1.000 - 0 1.000 0.00 0.00 0.00 0.00 _ 0 0.00 0.00 0.00 0.00 6010/601 0.00 0.00 0.00 0.00 0.00 - o 1.000 0.00 - 0 1.000 0.00 0.00 0.00 0.00 0 1,000 0.00 0.00 0.00 5980/598 - 0 0.00 0.00 0.00 0.00 0.00 1.000 0.00 0.00 0.00 0.00 1.000 0.00 1522C/1522 0.00 0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 Habitat Means 0.26 0.26 Power-50% --- P-value 0.732 Power-50% --- P-value 0.732 Power-50% --- P-value 0.536 Fisher's Power Power Power-50% --- P-value 0.500 Power ___ Power-50% --- P-value 0.500 Stouffer's Power ---Power-50% --- P-value 0.315 Power 1 000 0.00 0.00 Φ 1.000 0.00 0.00 0.00 0.00 - 0 1.000 0.00 0.00 0.00 0.00 4825C/1424 0.00 0.00 o - 0 1.000 0.168 0.00 0.00 0.00 0.00 0 1.000 0.00 0.00 б 0.00 0.00 453C/453 6.00 4 23 6 0.83 0.83 1.000 0.00 - n 0.00 3.75 3.75 0.391 0.00 0.00 0.00 0.00 Q 1.000 0.00 0.00 4 601C/601 0.00 0.00 4 - 0 0.00 0.00 1.000 0.00 0.00 0.00 n n- 0 1.000 0.00 0.00 0.00 0.00 0 1,000 0.00 0.00 598C/598 - 5 - 0 0.00 1.000 - O 0.00 0.00 0.00 1.67 1.67 0.00 0.00 0.00 0.00 1.000 0.00 1522C/1522 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 Habitat Means 1.20 0.84 1,26 1.26 Power-50% 0.003 P-value 0.474 Power-50% --- P-value 0.732 Power Power-50% --- P-value 0.732 0.000 Power Fisher's Power Power-50% --- P-value 0.500 Power Power-50% --- P-value 0.500 Stouffer's Power 0.001 Power-50% 0.000 P-value 0.635 Power 0.00 0.00 0.00 0.00 0.00 - 0 1.000 0.00 0.00 0.00 1.000 13.10 0.062 0 4825C/1424 0.00 0.00 29.17 - o 1.000 0.00 0.00 0.00 0.00 - o 1.000 0.00 0.00 0.00 0.00 453C/453 13.75 12.93 3.13 1.88 → + 0.593 - 0 1.000 0.00 0.00 0.00 0.00 -O 1.000 0.00 0.00 0.00 0.00 0.374 601C/601 1.00 1.00 0.00 0.00 . 0.00 0.00 1.000 0.00 0.00 0.00 0.00 - o 1.000 0.391 0.00 0.00 0 0.00 0.00 598C/598 4 0.63 0.63 - 0 1.000 0.00 0.00 0.00 1,000 0.00 0.00 0.00 0.00 10.50 5.09 0.078 0.00 0 1522C/1522 3 0.83 0.83 0.00 0.00 0.00 0.00 n 0.00 3.06 8.56 4.02 0.00 0.00 0.00 3.24 Habitat Means --- P-value 0.732 Power-50% --- P-value 0.732 Power Power-50% Power-50% 0.010 P-value 0.514xy Power 0.003 Fisher's Power --- P-value 0.500 Power-50% Power-50% 0.112 P-value 0.299 Power Power-50% --- P-value 0.500 Power Stouffer's Power 0.000

Table C 5.442.

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x At least one sits pair p value < 0.100 in opposite direction of 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. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed May 1991. (Continued.)

				Pndo	aladi	a muricat	a (P)						Gloi	opelt	is furcat	a (A)					Ne	orhodo	mela/	Rhodome	la (P) (a)		
					N	0	88	cv	D	P		c	SE	ы	0	SE	CA	D	P	N	С	SE	N	0	SE	CV	D	P
ite Pair	Mvd	N	С	SE	- 14							0.00	0.00	-	0.00	0.00	_	0	1.000	6	0.00	0.00	5	0.00	0.00			1.000
825C/1424	1	6	0.00	0.00		0.00	0.00			1.000	6	0.00	0.00	5 6	0.00	0.00	_		1.000	6	1.25	1.25	6	0.00	0.00			0.363
53C/453	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
D1C/601	1	6	0.00	0.00		0.00	0.00			1.000	6	0.00	0.00	6	0.00	0.00	_		1.000	6	0.00	0.00		0.00	0.00			1.000
98C/598	-	6	0.00	0.00		0.00	0.00			1.000	6	0.00	0.00	6	0.00	0.00	_	0	1.000	б	0.00	0.00	6	0.00	0.00	-	0	1.000
522C/1522	1	б	0.00	0.00	6	0.00	0.00) –	0	1.000	6	0.00		O							0.26	0.26		0.00	0.00)	+	
			0.00	0.00		0.00	0.00)	0			0.00	0.00		0.00	0.00		О			0.20	0.20						
abitat Mea	ans		0.00	0.00						0 730	Power			Powe	r-50%		P-va:	lue	0.732	Power			Power			P-val		0.536
Fisher's		Power			Power					0.732 0.500	Power				r-50%		2-va	lue	0.500	Power			Power	-50%		P-va	ue	0.315
Stouffer'	S	Power			Power	c-50%		P-Va.	lue	0.500	FOWCI								1 000	-	0.00	0.00	5	0.00	0.00	} _	0	1.000
	-	-	0.00	0.00	5	0.00	0.00) –	0	1.000	5	0.00	0.00		0.00	0.00			1.000	2	6.00	4.23		0.83	0.83			0.168
825C/1424	2	5 5	0.00	0.00		0.00	0.00		0	1.000	5	0.00	0.00		0.00	0.00		~	1,000	5	0.00	0.00		3.75	3.75			0.391
153C/453		6	0.00	0.00		0.00	0.00		0	1.000	6	0.00	0.00		0.00	0.00		0	1.000	6	0.00	0.00		0.00	0.00		0	1.000
01C/601	2		0.00	0.00		0.00	0.00	- 0	0	1.000	5	0.00	0.00		0.00	0.00		0	1.000	5	0.00	0.00		1.67	1.67			0.363
598¢/598 522¢/1522	2	6	0.00	0.00		0.00	0.00	- (Q	1.000	6	0.00	0.00	6	0.00	0.00	-	Q	1.000	ь								
	_	b					0.00	2	o			0.00	0.00		0.00	0.00		0			1.20	0.84		1.26	1.26	5	-	
Rabitat Mea	ans		0.00	0.00		0,00	0.00	J	U			0.00						1	0.732	Power	0.000		Power	c~50%	0.005	P-va	lue	0.474
Fisher's		Power			Power	r-50%		P-va	lue	0.732	Power				sr-50%		P-va P-va		0.732	Power	0.001		Power		0.000	P-va	lue	0.635
Stouffer's	, _	Power				r-50%		P-va	lue	0.500	Power			Powe	r-50%		₽-Va	11.76	0.500	10461						_		0.050
Stourrer	3	TOWCI							_	1.000	5	0.00	0.00	3	0.00	0.00	-	0	1.000	5	0.00	0.00		27.50	11.46		-	0.052
4825C/1424	3	5	0.00	0.00		0.00	0.0			1.000	1	0.00	0.00		0.00	0.00	-		1.000	4	13.75	12.93		3.13	1.88			0.374
153C/453		4	0.00	0.00		0.00	0.0				-	0.00	0.00		0.00	0.00	-	0	1.000	5	1.00	1.00		0.00	0.00		*	0.391
601C/601		5	0.00	0.00		0.00	0.0		٥		Ã	0.00	0.00	5	0.00	0.00		- 0	1.000	4	0.63	0.63		0.00	5.09		-	0.078
598C/598	3		0.00	0.00		0.00	0.0		_		6	0.00	0.00	5	0.00	0.00	- +	- 0	1.000	6	0.83	0.83	5	10.50	5.05	9 -	_	0.076
1522C/1522	3	6	0.00	0.00	5	0.00			0	1.000					0.00	0.00		0			3.24	3.06		8.22	3.70	0	+	
Babitat Mea	ans		0.00	0.00)	0.00	0.0	0	0			0.00	0.00		U.UU	0.00	'						_		0.010	D	2	0 515
					_			P-va	. 110	0.732	Power			Powe	er-50%		P-va		0.732	Power	0.001			r-50%				0.515x 0.302
Fisher's		Power				r-50% r-50%				0.500	Power				er-50%		P-va	aluc	0.500	Power	0.000		Powe	r-50%	0.110	r-va	146	0.302
Chauffor	i a	Bortox			PUMP	r - ⊓11116		Att		3.200																		

(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-5.442. Page 5. Decomber 15, 1994

z Only one site	pair.						4=3						Pt 11nt	a/Nec	optilota	(P) (b)					Mor	phologi	cal G	roup: S	accate F	eds		
					thalia N	floccos	SE	CV	D	P			SE	N	0	SE	CV	D	Þ	N	c	SE	N	0	SE	CΛ	D	P
Site Pair	Mvd	N	c	SE	N .				_				- 00	_	0.00	0.00	-	0	1.000	6	0.00	0.00	5	0.00	0.00	-		1.000
4825C/1424 453C/453 601C/601 598C/598	1 1 1 1	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
1522C/1522 Habitat Mea	าต	6	0.00	0.00	Ü	0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	1	0	0.733
Fisher's Stouffer'		Power			Power			-val		0.732 0.500	Power Power				r-50% r-50%		-valu -valu		0.732 0.500	Power Power			Power Power				ue	0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	5 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 4 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	0 0	1.000 1.000 1.000 1.000 1.000	5 6 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0 0	1.000 1.000 1.000 1.000	5 5 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5 6	0.00 0.00 0.00 0.00 0.42	0.00 0.00 0.00 0.42 0.08	-	0	1.000 1.000 1.000 1.000 0.363
Habitat Mea	ins	Power	0.00	0.00	Power			P-val		0.732	Power Power	0.00	0.00		0.00 r-50% r-50%	1	e-valu	ue	0.732 0.500	Power			Power Power			P-val P-val		0.536 0.425
Stouffer' 4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3	5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	0	1.000 1.000 1.000 1.000	5 4 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5 5	1.67 0.00 0.00 0.00 0.00	1.67 0.00 0.00 0.00 0.00	-	- 0 0 0 0	0.423 1.000 1.000 1.000 1.000	5 4 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5 5	2.50 0.00 0.00 0.00 1.00	2.50 0.00 0.00 0.00 0.61 0.62	-	0	0.423 1.000 1.000 1.000 0.178
Habitat Mea		Power	0.00	0.00		0,00 r-50%		P-val		0.732	Power	0.00	0.00	Powe	0.34 er-50% er-50%		P-valı P-valı		0.565 0.456	Power Power	0.01	3	Power	-50%				0.278 0.348

⁽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 habital means is different than direction of overall tests.
z Only one site pair.

Table C-5.442, Algal Percent Cover, Rhodophyta, Prince William Sound, Sheltered Rocky, August 1993, Overstory removed May 1991, (Continued.)

				Ralosa	ccion	glandifo	IMO (A)						Hal	OSAC	cion app.	(A)					Morphol	ogical	Group:	Fine	Filament	ous I	Reds	ı
Site Pair	Myd	N	С	SE	N	0	SE	ĊV	D	P	N	С	92 	N	0	SE	CV I	ם	P	N	c	SE	N	0	SE	cv	ם	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	- (0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		0	1.000 1.000 1.000 1.000 1.000
Habitat Mean	ns		0.00	0.00		0.00	0.00		О			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	s	Power Power			Power	r-50% r-50%		P-vali P-vali		0.732 0.500	Power Power				r-50% r-50%		-valu		0.732 0.500	Power Power			Power-			P-val P-val		0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2	5 5 6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 4 5 6	0.00 0.00 0.00 0.00 0.42	0.00 0.00 0.00 0.00 0.42	-	0 0	1.000 1.000 1.000 1.000 0.363	5 6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- e	0	1.000 1.000 1.000 1.000	5 5 6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		0	1.000 1.000 1.000 1.000 1.000
Habitat Mean	ns		0.00	0.00		0.08	0.08		-			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		o	
Fisher's Stouffer's	s	Power Power			Power	r-50% r-50%		P-valı P-valı		0.536 0.425	Power Power				r-50% r-50%		-valu		0.732 0.500	Power Power			Power-			P-val P-val		0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3	5 4 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	3 4 3 5	2.50 0.00 0.00 0.00 1.00	2.50 0.00 0.00 0.00 0.61	-	0 0 0	0.423 1.000 1.000 1.000 0.178	5 4 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- e	0	1.000 1.000 1.000 1.000	5 4 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	9.17 0.00 0.00 0.00 0.00	9.17 0.00 0.00 0.00 0.00	-	0	0.423 1.000 1.000 1.000
Habitat Mean	ns		0.00	0.00		0.70	0.62		-			0.00	0.00		0.00	0.00		0			0.00	0.00		1,84	1.84		-	
Fisher's Stouffer's	s	Power Power	0.015 0.015		Power			P-valu P-valu		0.278 0.348	Power Power				r-50% r-50%		-valu		0.732 0.500	Power Power			Power-					0.565 0.456

x At least one site pair p-value < 0.120 in opposite direction of 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)											Мотр	hologi	cal	Group:	Crustose	Reds					Crusto	#e Co	ralline A	lgae (P)		
Site Pair	Mvd	N	С	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	CV D		P	N	С	SE	N	0	SE	C	7 D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) -) -	0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 5.00 0.42 0.00 0.00	0.00 3.71 0.42 0.00 0.00	6 6	1.50 0.00 0.00 0.00 0.00	1.50 0.00 0.00 0.00 0.00	 - + - + - 0	- 0	0.374 0.195 0.363 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		- 0	
Habitat Mean	r.s		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	
Fisher's Stouffer's	ន	Power Power			Power Power			P- va P-va		0.732 0.500	Power Power	0.001			er-50% er-50%		P-value P-value		0.338 0.219	Power Power				r-50% r-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2	5 6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) ~	0	1.000 1.000 1.000 1.000	5 5 6 5 6	0.00 3.50 0.00 0.00	0.00 2.18 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 1 - 0 - 0) 1 > 1	1.000 0.179 1.000 1.000 L.000	5 6 5 6	0.00 2.00 0.00 0.00 0.00	0.00 2.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	- 0	0.374 1.000 1.000
Habitat Mean	ns		0.00	0.00		0.00	0.00)	0			0.70	0.44		0.00	0.00					0.40	0.40	ı	0.00	0.00		+	
Fisher's Stouffer's	s	Power Power			Power Power			P-va P-va		0.732 0.500	Power Power	0.010 0.005			er-50% er-50%		P-value P-value		0.409 0.238	Power Power				r-50% r-50%				0.542 0.319
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3	5 4 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	9.17 0.00 0.00 0.00 0.00	9.1 0.00 0.00 0.00) ~	0	0.423 1.000 1.000 1.000	5 4 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0	1 1	1.000 1.000 1.000 1.000 L.000	5 4 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	- 0	1.000 1.000 1.000 1.000
Habitat Mean	ns		0.00	0.00		1.84	1.84		-			0.00	0.00		0.00	0.00	0	,			0.00	0.00	ı	0.00	0.00		o	
Fisher's Stouffer's	s	Power Power	 		Power Power					0.565 0.456	Power Power				er-50% er-50%		P-value P-value		0.732 0.500	Power Power				r-50% r-50%				0.732 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. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed May 1991. (Continued.)

				Hil	.denbr	andia sp). (P)							Petr	cocelis (P)											
Site Pair	Mvd	N	С	SE	N	0	SE		CV D	P	N	С	SE	N	0	SE	CA D)	P	N	С	SE	N	0	SE	CV D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1	6 6 6 6	0.00 5.00 0.42 0.00 0.00	0.00 3.71 0.42 0.00 0.00	6 6	1.50 0.00 0.00 0.00 0.00	1.: 0.: 0.: 0.:	00 00 00	- + - 0 - 0	0.195	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0		1.000 1.000 1.000 1.000								
Habitat Mear	ns		1.08	0.82		0.30	0.	30	-			0.00	0.00		0.00	0.00	Ç)									
Fisher's Stouffer's		Power Power	0.002 0.001		Power	-50% -50%	0.005 0.007			0.338	Power Power				er-50% er-50%		-value -value		0.732 0.500	Power Power			Power Power			value value	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2	5 5 6 5	0.00 1.50 0.00 0.00	0.00 1.50 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0. 0. 0.	00 00 00	- + - 0 - 0	1.000 0.374 1.000 1.000	5 5 5 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c		1.000 1.000 1.000 1.000								
Habitat Mear	r.s		0.30	0.30		0.00	0.	00	+			0.00	0.00		0.00	0.00	C)									
Fisher's Stouffer's	s	Power Power				r=50% r=50%				0.542	Power Power				or-50% er-50%		P-value P-value			Power Power			Power			-value -value	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3	5 4 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0. 0. 0. 0.	00 00 00	- 0	1.000 1.000 1.000 1.000	5 4 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c	9 :	1.000 1.000 1.000 1.000								
Habitat Mean	ns		0.00	0.00		0.00	0.	00	0			0.00	0.00		0.00	0.00	(0									
Fisher's Stouffer's	5	Power				r-50% r-50%				0.732 0.500	Power Power				er-50% er-50%		P-value P-value			Power Power			Power Power			-value -value	

At least one size pair p value < 0.100 in apposite direction of overall tests.</p>
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.

					Bal	anomorph	ia.						L	ottiidae								м	ytilus					
Site Pair	Mvd	N	С	SE	N	0	SE	ÇV	D	P	N	С	9E	N	0	88	CA	D	P	N	С	SE	N	0	SE	ÇΨ	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6 6 6	2.50 3.33 3.75 6.67 14.17	2.04 2.47 1.80 2.79 13.18	6	27.50 3.75 0.00 0.83 5.42	17.85 2.87 0.00 0.53 3.44	-	-	0.223 0.957 0.080 0.040 0.626	6 6 6 6	0.00 0.42 0.42 0.42 0.00	0.00 0.42 0.42 0.42 0.00	6 6	0.00 0.00 0.42 0.42 0.00	0.00 0.00 0.42 0.42	-	•	1.000 0.363 1.000 1.000	6 6 6 6	0.42 2.92 1.25 1.67 2.08	0.42 2.92 0.85 0.83 2.08	6 6	0.00 2.50 1.67 1.25 0.00	0.00 1.71 0.83 1.25 0.00	L - 3 - 5 -	- -	0.363 0.840 0.662 0.493 0.363
Habitat Mea	ın.ş		6.10	4.46		7.50	4.94		+			0,24	0.24		0.16	0.16		+			1.68	1.42		1.10	0.76	ŝ	+	
Fisher's Stouffer'		Power Power				r-50% r-50%		P-val P-val		0.053 y 0.028	Power Power				er-50% er-50%		P-val P-val		0,536 0.315	Power Power	0.088 0.123		Power Power			P-val: P-val:		0.274 0.197
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	6 5	2.00 5.50 7.92 15.50 13.33	1.46 3.74 3.90 11.25 11.90	6 4 5	11.00 15.42 1.25 1.50 0.83	4.51 5.02 1.25 1.00 0.83	-	÷	0.083 0.186 0.199 0.167 0.340	5 5 5 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.63 0.00 0.00	0.00 0.00 0.63 0.00	-	0	1.000 1.000 0.391 1.000 1.000	5 6 5 6	0.00 0.50 8.33 7.00 6.67	0.00 0.50 6.44 4.57 3.52	6 4 5	0.00 8.33 5.00 5.50 0.00	0.00 5.58 3.39 2.42 0.00	3 - 3 -	- + +	1.000 0.196 0.959 0.906 0.058
Habitat Mea	រោទ		8.84	6.46		6.00	2.52		+			0.00	0.00		0.12	0.12		-			4.50	3.00		3.76	2.28	3		
Fisher's Stouffer'		Power Power	0.142 0.040			r-50% r-50%		P-val P-val		0.202x 0.266	Power Power				er-50% er-50%		P-va] P-va]		0.550 0.421	Power Power	0.024 0.017		Power	-50% -50%		P-valu P-valu		0.302 0.574
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	5 4 5 4 6	0.00 0.00 1.00 0.00 0.42	0.00 0.00 0.61 0.00 0.42	4	0.00 0.63 0.00 0.00 2.50	0.00 0.63 0.00 0.00 2.50	-	_	1.000 0.391 0.178 1.000 0.538	5 4 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000 1.000	5 4 5 4 6	0.00 0.00 0.00 5.00 0.00	0.00 0.00 0.00 5.00	1 3 5	0.00 5.63 0.00 0.00	0.00 3.29 0.00 0.00) -) -	0 +	1.000 0.183 1.000 0.391 1.000
Habitat Mea	ns		0.28	0.20		0.62	0.62		-			0.00	0.00		0.00	0.00		0			1.00	1.00		1.12	0.66	i	-	
Fisher's Stouffer'		Power Power	0.004 0.000			r-50% r-50%		P-val P-val		0.546 0.393	Power Power				er-50% er-50%		P-val P-val		0.732 0.500	Power Power	0.050 0.003			r-50% r-50%		P-valu P-valu		

x At least one site pair p-value < 0.100 in opposite direction of overall tests, y Direction of difference between habits, mean is different than direction of overall tests. To $D_{\rm c}$ you as the pair.

Table C-5.443. Page 1. December 15, 1994

	Nucella lamellosa Pair Mvd N C SE N O SE CV												Lit	torinidae								M	llusca				
Site Pair M	rvd N	c	92	N	0	SE	CV	D D	P	N	c	SE	N	0	SE	çv	D	P	N	c	SE	N	0	SE	-	V D	P
453C/453 601C/601 598C/598	1 6 1 6 1 6 1 6 1 6	0,00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	2.50 0.00 0.00 0.00 0.00	1.9 0.0 0.0 0.0	0 – 0 – 0 –	0	0.209 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 1.25 0.00 0.00	0.00 1.25 0.00 0.00	-	0	1,000 0,363 1,000 1,000 1,000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		- 0 - 0 - 0 - 0	1.000 1.000 1.000 1.000 1.000
Habitat Means		0.00	0.00		0.50	0.3	8	-			0.00	0.00		0.26	0.26		-			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer's	Power Power	0.000			-50% -50%		P-va P-va		0.435 0.431	Power Power				x-50% x-50%		P-valu P-valu		0.536 0.315	Power Power			Power Power					0.732 0.500
153C/453 501C/601 598C/598	2 5 2 5 2 6 2 5 2 6	0.00 0.50 0.00 0.00	0.00 0.50 0.00 0.00	6 4 5	0.50 0.00 0.00 0.00 0.00	0.5 0.0 0.0 0.0	0 - 0 - 0 -	0	0.374 0.374 1.000 1.000	5 5 6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000	5 6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00			1.000 1.000 1.000 1.000 1.000
Mabitat Means		0.10	0.10		0.10	0.1	0	-			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Power Power				r-50% r-50%				0.636 y 0.636	Power Power				2-50% 2-50%		P-valu P-valu		0.732 0.500	Power Power			Power					0.732 0.500
153C/453 501C/601 598C/598 1522C/1522	3 5 3 4 3 5 3 4 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5 5	0.00 0.63 0.00 0.00	0.00 0.5 0.0 0.0	3 - 0 - 0 -	0 0 0	1.000 0.391 1.000 1.000	5 4 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0 0 0	1.000 1.000 1.000 1.000 1.000	5 4 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	3 5 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		- 0 - 0	1.000 1.000 1.000 1.000 1.000
abitat Means		0.00	0.00		0.12	0.1		-			0.00	0.00		0.00	0.00		O			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer's	Power Power			Power Power	-50% -50%				0.550 0.325	Power Power				r-50% r-50%		P-valu P-valu		0.732	Power Power			Power Power	r-50% r-50%				0.732 0.500

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

Table C-5.448. Algal Percent Cover. Substrates. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed May 1991.

Results of statistical differences between means of control and ciled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = conficient of variation; SE = standard error; D = direction of difference; + = control > ciled; - = control < ciled; O = control

	Rock Pair Mvd N C SE N O SE												01	led Rock				_					Sand				_
Site Pair Mvd	1 N	c	SE	N	0	SE	CV	D	P	N	c	SE	N	0	SE	GA I	D	P	N	С	SE	N	0	SE	c	V D	P
4825C/1424 1 453C/453 1 601C/601 1 598C/598 1 1522C/1522 1	6 6 6	72.08 48.33 91.25 90.83 40.42	10.89 12.31 2.12 2.79 17.00	6 6 6	62.50 74.17 81.25 97.50 47.50	17.4 15.6 16.2 1.2	3 - 3 -	+ - +	0.741 0.252 0.769 0.073 0.826	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0	0	1.000 1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		- o - o	1.000 1.000 1.000 1.000
Habitat Means		58.58	9.02		72.60	13.8	3	-			0.00	0.00		0.00	0.00	c	0			0.00	0.00		0.00	0.00	ł	0	
Fisher's Stouffer's	Power Power			Power Power			P-val P-val		0.155 0.027	Power Power				r-50% r-50%		e-value e-value		0.732 0.500	Power Power				r-50% r-50%				0.732 0.500
4825C/1424 2 453C/453 2 601C/601 2 598C/598 2 1522C/1522 2	5 5 6 5	41.00 44.00 74.17 57.50 24.58	17.62 10.51 8.51 18.23 10.28	6 4 5	55.50 60.42 37.50 84.50 15.83	17.63 10.33 21.7 8.19 15.83	2 – 7 – 9 –	- + - +	0.600 0.263 0.117 0.199 0.400	5 6 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	- 0 - 0 - 0 - 0	0	1.000 1.000 1.000 1.000 1.000	5 6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00))	- o - o	1.000 1.000 1.000 1.000
Habitat Means		48.26	13.02		50.74	14.7	5	-			0.00	0.00		0.00	0.00	c	0			0.00	0.00		0.00	0.00)	0	
Fisher's Stouffer's	Power Power			Power Power			P-val P-val		0.309 0.130	Power Power				er-50% er-50%		-value		0.732 0.500	Power Power				r-50% r-50%				0.732 0.500
601C/601 3 598C/598 3	4	3.50 27.50 50.00 18.75 23.75	3.50 21.19 17.05 15.60 15.24	4 3 5	1.67 56.25 4.17 1.00 27.00	1.6° 17.28 2.20 0.60 18.60	3 - 3 -	+	0.933 0.325 0.114 0.340 0.991	5 4 5 4 6	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	- c - c - c - c	0	1.000 1.000 1.000 1.000	5 4 5 4 6	0.00 0.00 0.00 0.00 10.83	0.00 0.00 0.00 0.00 10.83	4 3 5	0.00 0.00 25.00 26.00 0.00	0.00 0.00 25.00 17.44 0.00)		1.000 1.000 0.423 0.197 0.363
Mabitat Means		24.72	14.52		18.04	8,1	1	+			0.00	0.00		0.00	0.00	c	0			2.16	2.16		10.20	8.48	3	-	
Fisher's Stouffer's	Power Power			Power Power					0.251 0.276	Power Power				er-50% er-50%		e-value e-value		0.732	Power Power	0.01 0.00			r-50% r-50%				0.364 0.159

x At least one afte pair p value < 0.100 in opposite direction of overal) tests.
y direction of difference between habitat means is different than direction of overal) tests.
y only one site pair.

Table C 5.444, Page 1, December 15, 1994

					Shell	Fragment	: 0								Water							Z	stera	/Phyllosy	adix			
Site Pair I	Mvd N	С	- 1	SE	N	0	SE	CV	D	P	N	С	SE	N	٥	SE	CV	α	P	N	С	SE	N	0	SE	C1	7 D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 6 1 6 1 6 1 6	0.00 0.00 0.00	0 0 0	0.00 0.00 0.00 0.00	б б	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0 – 0 –	0		6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) -) -		1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) 6) 6) 6	0.00 0.00 0.00 0.00	0.00 00.0 00.0 00.0) -) -) -	- 0 - 0	1.000 1.000 1.000 1.000
Habitat Means	S	0.00	Ď	0.00		0.00	0.0)	0			0.00	0.00		0.00	0.00		0			0.00	0.00)	0.00	0.00)	0	
Fisher's Stouffer's	Powe				Power Power			P-val P-val		0.732 0.500	Power Power				er-50% er-50%		P-va P-va		0.732 0.500	Power Power				r-50% r-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 5 2 5 2 6 2 5 2 6	0.00	0 0 0	0.00 0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0 - 0 -	0	1.000	5 6 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) -) -	ō	1.000 1.000 1.000 1.000 1.000	5 6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) 6) 4) 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) -) -	- o - o	1.000 1.000 1.000 1.000
Habitat Means	s	0.00	0	0.00		0.00	0.0)	0			0.00	0.00		0.00	0.00)	0			0.00	0.00)	0.00	0.00)	۵	
Fisher's Stouffer's	Powe Powe		-		Power Power					0.732 0.500	Power Power				er-50% er-50%		P-val P-val		0.732 0.500	Power Power				r-50% r-50%				0.732 0.500
	3 5 3 4 3 5 3 4 3 6	0.00	0 0 0	0.00 0.00 0.00 0.00	5	0.00 0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0 - 0 -		1.000 1.000 1.000 1.000	5 4 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- -	0 0 0	1.000 1.000 1.000 1.000	5 4 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) 4) 3) 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) -) -	- 0	1.000 1.000 1.000 1.000 1.000
Habitat Means	s	0.0	0	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00)	٥			0.00	0.00)	0.00	0.00)	0	
Fisher's Stouffer's	Powe				Power Power			P-val P-val		0.732 0.500	Power Power				er-50% er-50%		P-va: P-va:		0.732 0.500	Power Power				r-50% r-50%				0.732 0.500

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

Table C-5.444. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed May 1991. (Continued.)

					San	d and Mud								Tota.	l Substr	ate								_				
Site Pair	Mvc	d N	С	SE	N	0	SE	CV	D	P	N	c	SE	N	0	SE	CV I	D	P	N	c	SE	N	0	SE	CA I	,	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1 1 1 1 1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		0 0 0	1.000 1.000 1.000 1.000	6 6 6 6	72.08 48.33 91.25 90.83 40,42	10.89 12.31 2.12 2.79 17.00	6 6	62.50 74.17 81.25 97.50 47.50	17.43 15.63 16.28 1.29 18.82	- - -	+	0.741 0.252 0.769 0.073 0.826							·		
Habitat Mea	ns		0.00	0.00		0.00	0.00		0			68.58	9.02		72.60	13.88		-										
Fisher's Stouffer's	s	Power Power				r-50% r-50%				0.732 0.500	Power Power				r-50% r-50%		P-value P-value		0.155 0.027	Power Power			Power Power			value value		
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 4 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0 0 0	1.000 1.000 1.000 1.000	5 6 5 6	41.00 44.00 74.17 57.50 24.58	17.62 10.51 8.51 18.23 10.28	6 4 5	55.50 60.42 37.50 84.50 15.83	17.68 10.32 21.77 8.19 15.83	- :	- + -	0.600 0.263 0.117 0.199 0.400									
Habitat Mean	ns		0.00	0.00		0.00	0.00		o			48.26	13.02		50.74	14.76		-										
Fisher's Stouffer's	s	Power Fower				r-50% r-50%				0.732 0.500	Power Power				r-50% r-50%	0.503 0.585			0.309 0.130	Power Power			Power Power			value value		
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3	5 4 5 4 6	0.00 0.00 0.00 0.00 10.83	0.00 0.00 0.00 0.00 10.83	4 3 5	0.00 0.00 25.00 26.00 0.00	0,00 0.00 25.00 17.44 0.00	-	o -	1.000 1.000 0.423 0.197 0.363	5 4 5 4 6	3.50 27.50 50.00 18.75 34.58	3.50 21.19 17.05 15.60 19.96	4 3 5	1.67 56.25 29.17 27.00 27.00	1.67 17.28 26.71 17.38 18.68		- + -	0.933 0.325 0.490 0.760 0.699									
Habitat Mea	ns		2.16	2.16		10.20	8.48		-			26,88	15.48		28.24	16.36		+										
Fisher's Stouffer's	s	Power Power	0.010			r-50% r-50%				0.364	Power Power				r-50% r-50%	0.196 0.343				Power Power			Power Power			value value		

x At least one site pair p-value < 0.100 in opposite direction of overall seats.
y Direction of difference perween habitat means in different (then direction of overal) ceats.
y Chiy 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	Diver	sity I	idex (a)					Alga	1 Tas	ka Richne	ess (b)							Tot	tal Alga	e		
Site Pair Mv	d N	С	Se	N	0	SE	CV I	P	N	c	SE	N	٥	SE	CA D	P		Ŋ	c	SE	N	0	SE	CV D	P
	6 6 6	0.02 0.01 0.09	0.02 0.01 0.06	4	0.02 0.00 0.02	0.02 0.00 0.02		0.363	6 6 6	1.17 1.17 1.33	0.17 0.17 0.21	4	1.17 0.25 1.00	0.17 0.25 0.26	- +	0.0	13	6 6 6	38.75 44.58 46.67	8.11 18.06 11.36	4	50.00 3.13 48.75	15.33 3.13 18.38	- +	0.063
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 Power	0.148 0.190		Power Power			P-value P-value	0.193	Power Power				er-50% er-50%		P-value P-value			ower	0.00			r-50% r-50%		P-value P-value	0.623xy 0.611
	6 6 6	0.26 0.12 0.18	0.10 0.12 0.07	4	0.48 0.25 0.09	0.04 0.08 0.09		0.429	6 6 6	3.00 2.00 2.33	0.58 1.00 0.56	4	3.67 2.50 1.50	0.42 0.65 0.50		0.7	21	6 6	87.08 82.92 45.42	8.00 15.63 12.66	4	68.33 38.13 56.67	6.91 15.39 10.78	- +	0.058 0.064 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 Power	0.468 0.293		Power Power				0.106	Power Power	0.182 0.083			r-50% r-50%		P-value P-value			ower	0,13			er-50% er-50%		P-value P-value	
	6 2 6	0.50 0.24 0.29	0.04 0.19 0.12	5	0.35 0.41 0.15	0.11 0.13 0.10	-	0.229 0.515 0.424	6 2 6	4.17 4.00 3.83	0.40 2.00 1.14	5	4.50 4.40 2.00	0.99 0.98 0.71		0.8	46		61.67 00.00 68.75	8.63 0.00 18.64	5	99.17 97.00 100.00	0.53 2.42 0.00		0.218
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 Power	0.086 0.062		Power Power				0.236	Power Power	0.008			er-50% er-50%		P-value P-value			ower				r-50% r-50%		P-value P-value	

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

x At least one sits pair p-value < 3.100 in opposite direction of overall tests. y Threction of difference between habitat means is different than direction of over Only one site pair.

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				To	tal:	Inverteb	rates								Rock								Pere	nnials (P)			
Site Pair	Mvd	N	С	SE	N	0	SE	C	V D	P	N	C	SE	N	0	SE	GA	D	P	N	С	SE	N	0	SE	•	V D	P
14.1C/14.1 14.2C/14.2 62762C/50983	1 1 3 1	6 6 6	2.08 8.75 47.50	1.64 5.76 11.87	4	5.42 10.63 7.50	1.8 10.6 3.7	3	 - -	0.210 0.918 0.020	6 6 6	59.17 46.67 5.83	9.19 16.75 2.01	4	44.58 86.25 43.75	13.96 10.03 16.87	-	-	0.344 0.088 0.042	6 6 6	38.75 42.08 46.67	8.11 19.11 11.36	4	44.58 3.13 48.75	17.14 3.13 18.38	3		0.834 0.146 0.959
Habitat Mear	ns		19.47	6.43		7.83	5.4	3	-			37.23	9.33		58.23	13.63		-			42.53	12.87		32.17	12.87	7	-	
Fisher's Stouffer's		Power Power				r-50% r-50%	0.412 0.566			0.414xy 0.959	Power Power				r-50% r-50%		P-valu P-valu		0.026 0.019	Power Power	0.00			r-50% r-50%				0.761 y 0.621
14.1C/14.1 14.2C/14.2 62762C/50983	2		2.08 0.83 42.08	1.19 0.83 15.06	4	4.58 15.63 16.25	2.3 9.1 4.7	5		0.424 0.110 0.225	6 6 6	10.83 16.25 12.50	6.88 15.76 6.74	4	27.08 46.25 16.25	8,25 13,48 8,43	3 -	-	0.085 0.135 0.853	6 6 6	84.17 77.08 37.08	10.76 16.13 9.23	4	36.25 13.13 50.42	9.74 6.72 13.11	2		0.006 0.032 0.424
Habitat Mear	ns		15.00	5.70		12.17	5.4	7	-			13.20	9.80		29.90	10.07	,	-			66.13	12.03		33.27	9.83	3	-	
Fisher's Stouffer's		Power Power				e≃-50% er-50%	0.337 0.442			0.165 y 0.665	Power Power				r-50% r-50%		P-valu P-valu		0.037 0.138	Power Power	0.60			r-50% r-50%				0.002 0.252
14.1C/14.1 14.2C/14.2 62762C/50983	3 3 3 3	2	7.50 0.00 24.17	3.35 0.00 16.11	5	0.42 2.50 0.00	0.4 2.5 0.0	0	- + - +	0.018 0.374 0.159	6 2 6	30.83 0.00 7.08	10.32 0.00 6.14	5	0.42 0.50 0.00	0.42 0.50 0.00] –	-	0.020 0.374 0.233	6 2 6	36.67 45.00 17.92	11.65 42.50 9.67	5	44,17 60.50 91.25	15.02 15.34 5.15	1		0.830 0.582 0.001
Habitat Mean	ns		10.57	6.50		0.97	0.9	7	+			12.63	5.47		0.30	0.30)	+			33.20	21,30		65.33	11.83	3	-	
Fisher's	~	Power				er-50%				0.021 0.044	Power				er-50% er-50%				0.030 0.067	Power Power				r-50% r-50%				0.004 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 Ohly Oue salte pair.

Site Pair	Mvd	N	С	SE	N	0	ge	CA D	P	N	С	SE	N	0	SE	GA	D	P	N	С	SE	Ŋ	0	SE	ev.	О .	P
14.1C/14.1 14.2C/14.2 62762C/50983	1 1 3 1	б	0.00 2.50 0.00	0.00 1.71 0.00	4	5.42 0.00 0.00	4.49 0.00 0.00	- +	0.219 0.183 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000									
Habitat Mean	18		0.83	0.57		1.80	1.50				0.00	0.00		0.00	0.00		0										
Fisher's Stouffer's		Power Power	0.002		Power Power			P-value P-value	0.380 y 0.488	Power Power				r-50% r-50%				0.655	Power Power				er-50% er-50%		P-va P-va		
14.1C/14.1 14.2C/14.2 62762C/50983	2	6 6 6	2.92 5.83 8.33	2.92 4.90 3.69	4	32.08 25.00 6.25	9.21 11.95 6.25		0.009 0.120 0.409	6 6	0.00 0.83 5.83	0.00 0.83 2.79	4	2.50 5.00 2.08	2.50 5.00 2.08	-	_	0.363 0.469 0.283									
Habitat Mean	ıs		5.67	3.83		21.13	9.17	-			2.20	1.20		3.20	3.20		-										
Fisher's Stouffer's		Power Power	0.498		Power Power			P-value P-value		Power Power	0.036			r-50% r-50%				0.357	Power Power				er-50% er-50%		P-va		
14.1C/14.1 14.2C/14.2 62762C/50983	3	2		6.92 42.50 15.34	5	55.00 36.50 8.75	15.41 15.72 5.13	- +	0.176 0.529 0.056	6 2 6	2.50 2.50 0.83	1.58 2.50 0.83	5	3.75 3.00 0.00	2.39 2.42 0.00	-	-	0.937 0.950 0.363									
Habitat Mean	ns		43.60	21.57		33.43	12.10	+			1.93	1.63		2.27	1.60		-										
Fisher's Stouffer's		Power Power	0.138		Power Power			P-value P-value		Power Power	0.008			r-50% r-50%	0.242			0.756 0.786	Power Power				er-50%		2-v:		

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

Table C-5.445. 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; P = probability value; dashes insufficient data.

				_								Morph	ologi	cal G	roup: I	Sladed G	eens					Blad	ded G	reens (A	E) (a)			
			_			O	SE	CV	D				SE	N	0	SE	CV	D	P	N	c	SE	N	0	SE	CV	ם	P
	Mvd			0.00	N	0.00	0.00			.000	6	0.00	0.00	6	0.00	0.00			1.000	6	0.00	0.00		0.00	0.00			1.000
4.1C/14.1 4.2C/14.2	1	6	0.00	0.00	4	0.00	0.00	-	0 1	000.1	6	0.00	0.00	4 6	0.00	0.00			1.000	6	0.00	0.00		0.00	0.00	-		1.000
32762C/50983 Habitat Mean		6	0.00	0.00	0	0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	0 655
Fisher's		Power			Power-		I	-val	ue (0.655	Power				r-50%		P-val P-val		0.655 0.500	Power Power				r-50% r-50%				0.655 0.500
Stouffer's 14.1C/14.1	s 2	Power 6	0.00	0.00		5.42	3.44	-	- (0.175	6	0.00	0.00		0.00	0.00			1.000	6 6	0.00	0.00		0.00	0.00	} -		1.000 0.971
14.2C/14.2 62762C/50983	2	6	0.83	0.83		5.00 5.83	5.00 5.83	-		0.469 0.621	6 6	0.83 5.83	0.83 2.79		2.08	2.08	-		0.283	6	5.83	2.79		2.08	2.08			0.283
Mabitat Mean			2,20	1.20		5.40	4.73		-			2.20	1.20		0.90	0.90			0.346	Power	2.20 0.074	1.20		r-50%			lue	0.346
Fisher's		Power	0.174		Power-			P-val		0.203 0.444	Power Power	0.074 0.068			er-50% er-50%		P-va.		0.346 0.161	Power	0.073			r-50%	0.185	P-V	ı_ue	0.161
Stouffer's 14.10/14.1 14.20/14.2	3	2	2.92	1.50	6 5	6.25 5.50 0.00	3.21 4.90 0.00	-	- (0.537 0.900 0.183	6 2 6	2.50 2.50 0.83	1.58 2.50 0.83	5	3.75 2.50 0.00	2.39 2.50 0.00) -	0	0.937 0.776 0.363	6 2 6	2.50 2.50 0.83	1.58 2.50 0.83	5	3.75 2.50 0.00	2.39 2.50 0.00	ς .	- 0	0.937 0.776 0.363
62762C/5098 Habitat Mea		6	1.25	0.85	4	3.93	2.70		_	0.200		1.93	1.63		2.10	1.63	3	+			1.93	1.63		2.10	1.63			0.463
Fisher's		Power	0.013 n nn4		Power		0.526 0.600			0.621 0.843	Power Power	0.042			er-50% er-50%	0.266	P-va P-va		0.463 y 0.233	Power Power	0.045 0.058			r-50%				0.463 y 0.233

(al Kornmannie, Monostroms, Diva and Divaria.

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

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

2 Office means the pair.

Table C 5.446. Page 1. December 15, 1994

Only one site	pair.					=1 =1	1	(21	-00				àc:	rosip	honia sp.	(A)					Cha	etomor	pha/R	hizocloni	.ua (A)	(a)		
			orpholog:			o o	SE	cv.	D	Р Р	и	c	SE	N	0	SE	cv	D	P	N	С	SE	N	0	ge	cv	ם	P
ite Pair	Mvd	N	С	SE	N	-		_	_				2 70		0.00	0.00	_	0	1.000	6	0.00	0.00	6	0.00	0.00			1.000
1.1C/14.1 1.2C/14.2		6	0.00	0.00	4	0.00	0.00	-	0	1.000 1.000 1.000	6 6	0.00	0.00	4	0.00	0.00	-	0	1.000	6	0.00	0.00		0.00	0.00			1.000
762C/5098		6	0.00	0.00	6	0.00	0.00		0	1.000	-	0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00)	0	
abitat Mea Fisher's		Power	0.00	0.00	Power	-50%		P-val	ue	0.655 0.500	Power Power				r-50% r-50%		P-va P-va		0.655	Power Power				r-50% r-50%		P-ve	lue	0.655 0.500
Stouffer' 4.1C/14.1 4.2C/14.2	2	6	0.00	0.00	6 4	2.92	2.92 0.00 3.75	-	- 0	0.363 1.000 0.363	6 6	0.00	0.00	4	2.92 0.00 3.75	2.92 0.00 3.75		0	0.363 1.000 0.363	6 6	0.00	0.00	4	0.00	0.00 0.00) -	- 0	1.000 1.000 1.000
762C/5098		6	0.00	0.00		3.75 2.23	2.23		_	V.303	v	0.00	0.00		2.23	2,23		-			0.00	0.00		0.00	0.00		0	
bitat Mea Fisher's		Power	0.00		Power	-50%		P-val		0.223	Power Power				er-50% er-50%		P-va P- v a		0,223 0,138	Power Power				r-50% r-50%				0.655 0.500
Stouffer' 4.1C/14.1 4.2C/14.2	3	Power 6 2	0.42	0.42	6 5	2.50	1.12 2.50 0.00		-	0.082 0.374 0.363	6 2 6	0.42 0.00 0.42	0.42 0.00 0.42	5	2.50 2.50 0.00	1.12 2.50 0.00	-	- - +	0.082 0.374 0.363	6 2 6	0.00 0.00 0.00	0.00	5	0.00 0.00 0.00	0.00) .	- 0	1.000 1.000 1.000
2762C/5098 abitat Mea		6	0.42	0.42		0.00 1.67	1.20		-	0.303	-	0.27	0.27		1.67	1.20		-			0.00	0.00		0.00	0.00		0	0.655
Fisher's		Power	0.211 0.115			c-50% c-50%		P-val P-val	lue ue	0.119 0.533	Power Power	0.214 0.130			er-50% er-50%		P-va P- va	lue	0.119 0.533	Power Power				r-50% r-50%				0.655 0.500

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

Table C-5.446. Algal Percent Cover. Chlorophyta. Cook Inlet/Renai. Sheltered Rocky. June 1992. Overstory removed June 1990. (Continued.)

				C:	ladopi	nora sp. ((AE)						u	loth:	rix sp. (A	AE)						τ	Trospo	ora sp. ()	Æ)			
Site Pair	Mvđ	N	С	SE	N	٥	SE	cv	D	P	N	С	SE	N	0	SE	CA 1	D	P	N	С	SE	N	0	8B		CV D	P
14.1C/14.1 14.2C/14.2 62762C/50983	1	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00	0	- o - o	1.000 1.000 1.000
Habitat Mean	18		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	0	o	
Fisher's Stouffer's		Power Power				r-50% r-50%				0.655 0.500	Power Power				r-50% r-50%		P-value P-value			Power Power				r-50% r-50%				0.655 0.500
14.1C/14.1 14.2C/14.2 62762C/50983	2 2 3 2	6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00		o	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00	0	- 0	1.000 1.000 1.000
Habitat Mean	ns		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00	,	0.00	0.0	0	0	
Fisher's Stouffer's		Power Power				r-50% r-50%				0.655 0.500	Power Power				r-50% r-50%		P-value P-value			Power Power				r-50% r-50%				0.655 0.500
14.1C/14.1 14.2C/14.2 62762C/50983	3 3 3 3		0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 2 6	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	- (0	1.000 1.000 1.000	6 2 6	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00	0	- 0	1.000 1.000 1.000
Habitat Mean	ıs		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.0	0	٥	
Fisher's Stouffer's		Power Power				r-50% r-50%				0.655 0.500	Power Power				er-50% er-50%		P-value P-value			Power Power				r-50% r-50%				0.655 0.500

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

	Mo	rphologic	al Gr	oup:	Tubular	and Sac	cate	Gre	8T18		Bl	idingi	a/Ent	teromorpha	AB) (a	m)								_			
Site Pair Mv	d N	¢	SE	N	0	SE	CA	D	P	N	С	SE	N	0	SE	CA	D	Р	N	С	ŞE	N	0	SE	C1	V D	P
14.1C/14.1 1 14.2C/14.2 1 62762C/50983 1	. 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- (0	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000			.					-	
Habitat Means		0.00	0.00		0.00	0.00	l .	0			0.00	0.00		0.00	0.00		0										
Fisher's Stouffer's	Power Power				r-50% r-50%				0.655 0.500	Power Power				r-50% r-50%				0.655 0.500	Power Power			Power Power					
	6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	2.50 4.37 0.00	2.50 4.37 0.00	_	-	0.363 0.391 1.000	6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	2.50 4.37 0.00	2.50 4.37 0.00		-	0.363 0.391 1.000									
Habitat Means		0.00	0.00		2.30	2.30	1	-			0.00	0.00		2.30	2.30		-										
Fisher's Stouffer's	Power Power			Power Power	2-50% 2-50%				0.234 0.307	Power Power				r-50% r-50%				0.234 0.307	Power Power			Power Power					
	6 2 6	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.50 0.00	0.00 0.50 0.00	-	-	1.000 0.374 1.000	6 2 6	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.50 0.00	0.00 0.50 0.00	-	-	1.000 0.374 1.000									
Habitat Means		0.00	0.00		0.17	0.17		-			0.00	0.00		0.17	0,17		-										
Fisher's Stouffer's	Power Power				r-50% r-50%				0.409 0.400	Power Power				r-50% r-50%				0.409 0.400	Power Power			Power Power			P-va P-va		

(a) Genera not separated.

x At least one site pair p-value < 0.100 in apposite direction of 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

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; SI = standard error; D = direction of difference; + + control > oiled; - + control < oiled; O = control = oiled; P = probability value; dashes = insufficient data.

				7	Total	Phaeoph	yta					Morp	hologi	cal G	Froup:	Bladed Br	COWD	.8					Alar	ia sp. (A	.)			
Site Pair N	Bvt	N	c	82	N	0	gr.	cv	D	P	N	С	SE	N	0	SE	C1	Z D	P	ы	С	SE	N	0	SE	C	ZV D	P
	1 1 1	б		8.03 20.31 12.91	4	44.58 0.00 47.92	17.14 0.00 18.09	-	+	0.821 0.177 0.776	6 6 6	38.33 32.08 37.50	8.03 20.31 12.91	4	44.58 0.00 47.92	17.14 0.00 18.09		-	0.821 0.177 0.776	6 6	0.00 0.00 0.00	0.00 0.00 0.00	4 6	0.00 0.00 0.00	0.00 0.00 0.00		- 0	1.000 1.000 1.000
Habitat Means		Power	35.97 0.014	13.73	Power	30.83 -50%					Power	35.97 0.014	13.73		30.83 r-50%	11.73 0.696	P-va		0.696		0.00		Powe.	0.00 r-50% r-50%		P-V		0.655 0.500
Stouffer's		Power	0.005	12.20	Power	-50% 28.33	0.790 5.69			0.524	Power	0.003	13.39		r-50% 26.25	0.792 4.32		alue - 4	0.524	Power 6	0.00	0.00		0.00	0.00			1.000
	2 2	6	70.42 75.00 36.67	13.39 16.44 9.30		8.75 50.42	7.11	-	+	0.025	6	72.92	17.01	4	8.75 50.42	7.11		- +	0.030	6	0.42	0.42	6	0.00	0.00	•		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		+	
Fisher's Stouffer's		Power Power	0.487		Power Power					0.005	Power Power	0.506			r-50% r-50%				0.005 0.286	Power Power				r-50%		P-1	value	0.403
	3 3	2	14.17 85.00 54.17	6.08 12.50 16.88	5	64.58 59.50 88.75	14.61 17.86 7.18		+	0.026 0.505 0.119	6 2 6	14.17 85.00 54.17	6.08 12.50 16.88	5	63.75 59.50 88.75	14.34 17.86 7.18	, .	 - +	0.027 0.505 0.119	6 2 6	0.00 48.75 39.17	0.00 48.75 15.37	5	42.92 20.50 0.00	17.71 14.54 0.00)	- +	0.051 0.517 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 Stouffer's		Power Power			Power Power					0.021 0.031	Power Power				er-50% er-50%				0.021	Power Power				r-50% r-50%				0.081× 0.052

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

Table C-5.447. Page 1. December 15, 1994

			Tota:	l Fuci	s gardn	meri (P)					Ad	ult Fu	cus g	ardneri	(P) (> 2	cm)				Juve	nile F	ucus (gardneri	(P) (<=	= 2c1	h)	
Site Pair Myd	1 N	С	SE	N	0	ŞE	CV	D	P	N	С	SE	N	0	SE	ÇV	D	P	N	С	SB	N	0	SE	C	7 D	P
14.1C/14.1 1 14.2C/14.2 1 62762C/50983 1	6	38.33 32.08 37.50	8.03 20.31 12.91	4	44.58 0.00 47.92	17.1 0.0 18.0	0 -	+	0.821 0.177 0.776	6 6 6	36.67 32.08 37.50	8,23 20,31 12,91	4	44.58 0.00 46.67	17.14 0.00 18.51	-	4	0.767 0.177 0.824	6 6 6	1.67 0.00 0.00	1.67 0.00 0.00	4 6	0.00 0.00 1.25	0.00	5 -	-	0.363 1.000 0.363
Habitat Means Fisher's	Power	35.97 0.011	13.73		30.83 c-50%		P-va			Power			Powe	30.43 r-50%	11.87	P-val				0.57		Powe:	0.43 -50% r-50%		P-va		0.519 0.717
Stouffer's	Power		,		r-50%	0.811				Power				r-50%	0.776			0.539	Power 6	0.00	0.00		0.00	0.00			1.000
	6 6	70.42 72.50 36.67	13.39 17.15 9.30	4	26.25 8.75 50.42	4.3 7.1 13.1	1 -	+	0.015 0.031 0.411	6 6 6	70.42 72.50 36.67	13.39 17.15 9.30	4	26.25 8.75 50.42	4.32 7.11 13.11		+	0.031	6	0.00	0.00	4	0.00	0.00		- 0	1.000
Habitat Means		59.87	13.30		28.50	8.1	7	+			59.87	13.30		28.50	8.17		+			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Power				r-50% r-50%	0.880			0.005 0.288	Power Power				er-50% er-50%				0.005 0.288	Power Power				r-50% r-50%				0.655
	6 2 6	14.17 36.25 15.00	6.08 36.25 8.44	5	17.50 39.00 88.75	18.6	8 -	-	0.962 0.793 0.001	6 2 6	11.25 36.25 15.00	5.73 36.25 8.44	5	17.50 39.00 88.75	10.72 18.68 7.18		-	0.874 0.793 0.001	6 2 6	2.92 0.00 0.00	2.92 0.00 0.00	5	0.00 0.00 0.00	0.00	0	- 0	0.363 1.000 1.000
Habitat Means		21.83	16.93		48.43	12.2	0	-			20.87	16.80		48.43	12.20)	-			0.97	0.97		0.00	0.00		-	
Fisher's	Power				r-50% r-50%				0.005 0.001	Power Power				er-50% er-50%		P-va P-va		0.005 0.001	Power Power				r-50% r-50%				0.403 0.398

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

Table C-5.447. Algal Percent Cover, Phaeophyta, Cook Inlet/Kenai, Sheltered Rocky, June 1992. Overstory removed June 1990. (Continued.)

- n 1.000

- 0 1.000

- 0 1.000

P-value 0.655

--- P-value 0.500

				Fu	cus S	Stipes (P)	(a)					I	etalo	nia/I	Punctaria	(AE) (b))			Mo	orphologi	ical G	roup:	Coarse 1	711amen	itou	s Bro	₩Ŋs	
Site Pair	Mvd	1 N	c	SE	N	0	SE	•	ZV D	P	N	С	SE	N	0	SE	CV 2		P	N	С	SE	N	0	SE		CV D	P	_
14.1C/14.1 14.2C/14.2 62762C/5098	1	6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.0 0.0 0.0	0	- 0	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- () 1.) 1.) 1.	000	6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	0	- o - o	1.0	00
Habitat Mean	ns		0.00	0.00		0.00	0.0	0	o			0.00	0.00		0.00	0.00)			0.00	0.00	1	0.00	0.00	0	0		
Fisher's Stouffer's		Power Power				r-50% r-50%			alue Zalue	0.655 0.500	Power Power				er-50% er-50%		P-value			Power Power				r-50% r-50%			value value		
14.1C/14.1 14.2C/14.2 62762C/5098		6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.0 0.0 0.0	0	- 0	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- 6	1.	000	6 6 6	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00	0	- 0 - 0		00
Habitat Mean	ns		0.00	0.00		0.00	0.0	0	0			0,00	0.00		0.00	0.00)			0.00	0.00		0.00	0.00	0	0		
Fisher's Stouffer's	s	Power Power				er-50% er-50%				0.655 0.500	Power Power				er-50% er-50%		P-value P-value			Power Power				r-50% r-50%			value value		
14.1C/14.1 14.2C/14.2 62762C/5098	3 3 3 3	2	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.0 0.0	O .	- o - o		6 2 6	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	- 4	1. 1.	000	6 2 6	0.00 0.00 0.00	0.00	- 5	0.00 0.00 00.0	0.00 0.00 0.00	0	- o - o	1,0	00
Habitat Mear	ns		0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00	()			0.00	0.00		0.00	0.00	0	a		
Fisher's Stouffer's	S	Power Power				er-50% er-50%				0.655 0.500	Power Power	===			er-50% er-50%		P-value P-value			Power Power				r-50% r-50%			value value		

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

6

Power

3 2

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

Analipus japonicus (P)

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

Site Pair Mvd N C SE CV D P C CV D 0 0 1,000 6 0.00 0.00 0.00 0.00 - 0 1,000 14.10/14.1 0.00 0.00 0.00 0.00 0 1.000 0.00 0.00 0.00 0.00 0 1.000 0.00 0.00 0.00 0.00 - 0 1.000 14.2C/14.2 0.00 0.00 4 0.00 0.00 o 1.000 0.00 0.00 0.00 0.00 Φ 0.00 0.00 6 0.00 0.00 1.000 - c 1.000 62762C/50983 1 0.00 0.00 6 0.00 0.00 0 1.000 0.00 0.00 6 0.00 0.00 0 0.00 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 0 --- P-value 0.655 Power-50% --- P-value 0.655 Power Power-50% Fisher's Power-50% --- P-value 0.655 Power Power --- P-value 0.500 Power-50% --- P-value 0.500 Power ---Power-50% --- P-value 0.500 Stouffer's Power Power-50% Power 0.00 0.00 6 0.00 0.00 - 0 1.000 0.00 0.00 - o 1.000 0.00 0.00 0.00 1.000 14.1C/14.1 2 0.00 6 0.00 0.00 - 0 0.00 0.00 0.00 1.000 0.00 0.00 0.00 - 0 1.000 0.00 0.00 0.00 0.00 - 0 1.000 14.2C/14.2 0.00 6 0.00 0 - 0 1.000 1.000 0.00 0.00 - 0 К 0.00 0.0 62762C/50983 2 0.00 0.00 0.00 0.00 0 1.000 0.00 0.00 0.00 0.00 - 6 0.00 0.00 0.00 0.00 0 Habitat Means 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 o --- P-value 0.655 Power-50% --- P-value 0.655 Power-50% Power --- P-value 0.655 Fisher's Power ---Power-50% Power ------ P-value 0.500 Power-50% --- P-value 0.500 Power Stouffer's Power ---Power-50% --- P-value 0.500 POWET ___ Power-50%

6

0.00

0.00

0.00

0.00

Power-50%

Power-50%

0.00

0.00

0.00

0.00

0.00

0 00

0.00

0.00

6

6

Power

Power

Myelophycus/Scytosiphon (A) (a)

0.00

0.00

0.00

0.00

- 0

- 0

P-value

--- P-value 0.500

- 0 1.000

1.000

0 655

6

Power

Power

(a) Genera not separaced.

Stouffer's Power

14.1C/14.1 3

62762C/50983 3 6

14.2C/14.2

Habitat Means

Fisher's

0.00

0.00

0.00

0.00

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

0.00 - 6

0.00

0.00

0.00

4

Power-50%

Power-50%

Table C-5.447. Page 4. December 15, 1994

0.00

0.00

0.00

- 0 1.000

- 0 1.000 - 0 1.000

Ω

--- P-value 0.655

--- P-value 0.500

Table C 5.447. Page 7. December 15, 1494

Morphological Group: Fine Filamentous Browns

0.00

0.00

0.00

Power-50%

Power-50%

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

Table C-5.447, Algal Percent Cover, Phasophyta, Cook Inlet/Kenai, Sheltered Rocky, June 1992, Overstory removed June 1990, (Continued.)

		Fi	ne Fil	ament	ous Brown	s (AE)	(b)				Morph	ologic	cal G	roup: Sa	ccate B	rowns					Leathes	ia/Co	olpomenia	(A) (a)		
Site Pair Mv	rd N	C	SE	N	0	SE	CA	D	P	N	С	SE	N	0	SE	CV I	-	P	N	С	SE	N	0	SE	cv	D	P
	6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.0	0 -	o	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- 0	0 1	1.000 1.000 1.000	6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000
Habitat Means		0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00	c	0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Power Power				r-50% r-50%				0.655 0.500	Power Power				r-50% r-50%		?-value ?-value).655).500	Power Power				r-50% r-50%				0.655 0.500
	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.0	- 0	o	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- 0	1	1.000 L.000 L.000	6 6 6	0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000
Habitat Means		0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00	c	5			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Power Power				r-50% r-50%				0.655 0.500	Power Power				r-50% r-50%		P-value P-value			Power Power				c-50% c-50%				0.655 0.500
	6 1 2 1 6	0.00 0.00 0.00	0.00 0.00	5	0.00 0.00 0.00	0.0	- 0	0	1.000 1.000 1.000	6 2 6	0.00 0.00 0.00	0.00 0.00 0.00	5	0.83 0.00 0.00	0.83 0.00 0.00	c	9 1	.000	6 2 6	0.00 0.00 0.00	0.00 0.00 0.00	5	0.83 0.00 0.00	0.83 0.00 0.00	-	0	0.363 1.000 1.000
Habitat Means		0.00	0.00		0.00	0.0	כ	٥			0.00	0.00		0.27	0.27	-	-			0.00	0.00		0.27	0.27		-	
Fisher's Stouffer's	Power Power			Powe:	r-50% r-50%		P-val P-val		0.655 0.500	Power Power				r-50% r-50%		P-value P-value).403).398	Power Power				c-50% c-50%				0.403 0.398

(b) Elachists, Ectocarpus and Pilayella.

(a) Conera not separated.

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

Table C-5.447. Page 5. December 15, 1994

x only one site																										
	_			Sore	unther	a ulvoide	a (A)					Morph	ologic	ai Gr	oup: Cru	ustose B	rowns				Relfs	ia/Pe	troderma	(P) (a)		
Site Pair	Mvd	N	С	SE	И	0	SE	CV	D	P	N	c	SE	N	0	SE	CV I	P	N	С	ge	N	0	SE	CV I	P
14.10/14.1 14.20/14.2 627620/50983	1 1 3 1	6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00) –	0	1.000 1.000 2.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- 0	1.00 1.00	0 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	~ (1.00 1.00 1.00
Habitat Mear	ns		0.00	0.00		0.00	0.00)	0			0.00	0.00		0.00	0.00	c	,		0.00	0.00		0.00	0.00	c	
Fisher's Stouffer's		Power Power				r-50% r-50%				0.655 0.500	Power Power				r-50% r-50%		P-value P-value						r-50% r-50%		P-value P-value	
14.10/14.1 14.20/14.2 627620/50983	2 2 3 2	6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00	- (0	1.000 1.000 1.000	6 6	0.00 2.08 0.00	0.00 2.08 0.00	4	2.08 0.00 0.00	2.08 0.00 0.00	- 4	0.36	3 6	0.00 2.08 0.00	0.00 2.08 0.00	4	2.08 0.00 0.00	2.08 0.00 0.00		0.55
Habitat Mear	ns		0.00	0.00		0.00	0.00)	0			0.70	0.70		0.70	0.70	-			0.70	0.70		0.70	0.70	-	
Fisher's Stouffer's		Power			Power					0.655 0.500	Power Power				r-50% r-50%		P-value P-value		9 y Powe 10 Powe				r-50% r-50%		P-value P-value	
14.1C/14.1 14.2C/14.2 62762C/50983	3 3 3 3	2	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00) –	0	1.000 1.000 1.000	6 2 6	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	- 0	1.00	0 2	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	- 0	1.00 1.00 1.00
Habitat Mear	ns		0.00	0.00		0.00	0.00)	О			0.00	0.00		0.00	0.00		i		0.00	0.00		0.00	0.00	(
Fisher's Stouffer's		Power			Power Power					0.655 0.500	Power Power				r-50% r-50%		P-value P-value						r-50% r-50%		P-value P-value	

[a] Genera not separated. X At least one site pair p-value < 0.100 in opposite direction of overall tests. Y pirection of difference between habitat means is different than direction of overall tests. z Only one site pair.

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	Rhodoph	yta					Mor	pholog	ical	Group:	Bladed F	teds						Bangi	a sp. (A	B)			
Site Pair	Mvd N	С	ŞE	N	0	SE	cv	D	P	N	С	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	CV	D	P
14.1C/14.1 14.2C/14.2 62762C/50983	1 6 1 6 1 6	0.42 12.50 9.17	0.42 7.64 6.11	4	5.42 3.13 0.83	4.49 3.13 0.83	-		0.307 0.218 0.267	6 6	0.00 2.50 0.00	0.00 1.71 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	+	1.000 0.183 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4 6	0.00	0.00 0.00 0.00	-	0	1.000 1,000 1.000
Habitat Mean	1\$	7.37	4.70		3.10	2.80	1	+			0.83	0.57		0.00	0.00		-			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Powe Powe			Power			P-val		0.186 0.141	Power Power	0.007			r-50% r-50%		P-val P-val		0.272	Power Power			Power Power	-50% -50%				0.655 0.500
14.1C/14.1 14.2C/14.2 62762C/50983	2 6 2 6 3 2 6	16.67 7.08 2.92	6.01 6.14 1.50	4	34.58 24.38 0.42	6.00 16.81 0.42		-	0.066 0.262 0.167	6 6 6	5.42 6.25 1.25	4.10 6.25 1.25	4	24.58 1.88 0.00	6.04 1.88 0.00	-	- -	0.009 0.791 0.363	6 6 6	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000
Habitat Mean		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	
Fisher's Stouffer's	Power Power			Power	c-50%		P-val		0.086 0.663	Power Power	0.002			r-50% r-50%		P-va P-va		0.509 _{×y} 0.437	Power Power			Power Power	-50% -50%				0.655 0.500
14.1C/14.1 14.2C/14.2 62762C/50983	3 6 3 2 3 3 6	44.58 12.50 13.33	9.56 10.00 4.82	5	28.33 32.00 11.25	14.39 14.56 7.18	-	-	0.381 0.542 0.729	6 2 6	6.25 5.00 1.67	4.91 5.00 0.83	5	5.42 9.00 9.38	4.00 3.92 5.63	-	-	0.949 0.562 0.284	6 2 6	0.00 0.00 0.00	0.00	5	0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000
Habitat Mean		23.47	8.13	;	23.87	12.07	7	+			4.33	3.57		7.93	4.50		-			0.00	0.00)	0.00	0.00		0	
Fisher's Stouffer's	Pow			Power	r-50% r-50%		P-val P-val		0.427 y 0.347	Power Power	0.256 0.243			r-50% r-50%		2-va. 2-va		0.259 0.130	Power Power				c-50% c-50%				0.655 0.500

x At least one site pair p value < 0.180 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table 0 5:448. Page 1. December 15, 1

			Gigart	inace	ae Grou	p (P) (æ)					2	almaz	ria spp.	(A)						Ph	ycodry	ys riggii	. (A)			
Site Pair Mvd	N	С	SE	N	0	SE	c	7 D	P	N	С	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	c	D V	P
14.10/14.1 1 14.20/14.2 1 627620/50983 1	6	0.00	0.00	4	0.00	0.0	00	. 0	1.000	6	0.00	0.00	4	0.00	0.00	-	0	1.000	6	0.00	0.00	4 6	0.00	0.00)		1.000
Habitat Means		0.00	0.00		0.00	0.6	00	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00)	0	
	Power Power			Power					0.635	Power Power				r-50% r-50%		P-valu P-valu		0.655 0.500	Power Power				r-50% r-50%				0.655
14.1C/14.1 2 14.2C/14.2 2 62762C/50983 2		2.50 2.50 0.42	1,58 2.50 0.42	4	3.33 1.88 0.00	2.4 1.1 0.4	38		0.950 0.976 0.363	6 6	0.00 0.83 0.00	0.00 0.83 0.00	4	0.00	0.00 0.00 0.00	-	+	1.000 0.363 1.000	6 6	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00)	- o	1.000 1.000 1.000
Habitat Means		1.80	1.50		1.73	1.	50	+			0.27	0.27		0.00	0.00		+			0.00	0.00		0.00	0.00)	0	
	Power Power	0.024		Power Power		0.289 0.379			0.408	Power Power				r-50% r-50%		P-valu P-valu		0.403 0.398	Power Power				r-50% r-50%				0.655 0.500
14.1C/14.1 3 14.2C/14.2 3 62762C/50983 3	2	1.25 1.25 0.83	1.25 1.25 0.83	5	2.08 4.50 2.50	1. 2. 2.	29		0.418 0.538 0.603	6 2 6	0.00 1.25 0.42	0.00 1.25 0.42	5	2.08 2.50 6.88	2.08 2.50 4.00	-	-	0.363 0.958 0.117	6 2 6	0.00 0.00 0.00	0.00	5	0.00 0.00 0.00	0.00	0	- 0	1.000 1.000 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	0	0	
	Power Power	0.248		Power Power			P-v	alue	0.227 0.189	Power Power	0.354			r-50% r-50%				0.103	Power Power				r-50% r-50%				0.655 0.500

⁽a) Chondrus, Iridaes, Mastocarpus and Rhodoglossum.

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

Table C-5.448. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1992. Overstory removed June 1990. (Continued.)

						:	Porphy	ra sp.	(A)					Ŧ	okidad	lendr	on kurile	nsis (A))				Morpholog	ical (Foup:	Coars	e Filamer	itous Re	ds
g	٦œ	34	Ivd	N	c	SE	N	٥	SE	CV	D	P	N	С	SE	N	0	SE	CV D	P		1	¢	SE	n	0	SE	CV D	P
14	.1C/14. .2C/14. 762C/50	. 2		6 6 6	0.00 2.50 0.00	0.00 1.71 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	+	1.000 0.193 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- 0 - 0	1.0	00 (5	0.00 10.00 9.17	0.00 8.09 6.11	4	5.42 3.13 0.83	4.49 3.13 0.83		0.219 0.529 0.267
На	bitat M	leans	;		0.83	0.57		0.00	0.00		+			0.00	0.00		0.00	0.00	0				6.40	4.73		3.10	2.80	٠	
	Fisher' Stouffe		_	ower	0.008		Power			P-val P-val		0.272 0.352	Power Power				er-50% er-50%		P-value P-value			ower ower	0.023 0.009			r-50% r-50%		P-value P-value	
14	.1C/14. .2C/14. 762C/50	. 2	2 2 2	6	2.92 2.92 0.83	2.92 2.92 0.83	4	21.25 0.00 0.00	7.41 0.00 0.00	-		0.023 0.363 0.363	б 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- 0 - 0	1.0	00	5	4.17 0.83 0.00	1.90 0.83 0.00	4	7.08 22.50 0.00	3.44 15.03 0.00		0.537 0.180 1.000
Нa	bitat M	deans	1		2.20	2.20		7.10	2.47		+			0.00	0.00		0.00	0.00	0				1.67	0.90		9.87	6.13	-	
	Fisher' Stouffe			ower	0.003 0.002			r-50% r-50%				0.335xy 0.329	Power Power				er-50% er-50%		P-value P-value			ower	0.208 0.224			⊻-50 % ⊻-50%	0.216 0.232		
14	.1C/14. .2C/14. 762C/50	, 2	3		5.00 2.50 0.42	5.00 2.50 0.42	5	0.00 2.00 0.00	0.00 2.00 0.00	-	+	0.363 0.710 0.363	6 2 6	0.00 0.00 0.00	0.00 0.00 0.00	5	1.25 0.00 0.00	1.25 0.00 0.00	 - 0	1.0	00 :	5	21.25 7.50 3.75	9.35 5.00 2.12	5	6.25 4.00 0.00	3.64 1.70 0.00	- +	0.158 0.427 0.096
На	bitat N	deans	6		2.63	2.63		0.67	0.67		+			0.00	0.00		0.43	0.43	-				10.87	5.50	1	3.43	1.77	٠	
	Fisher' Stouffe			ower				r-50% r-50%				0.180 0.116	Power Power				er-50% er-50%		P-value P-value			ower				r-50% r-50%		P-value P-value	

x At least one site pair p value < 0.120 in opposite direction of overall cests.</p>
y Direction of difference between habital means is different than direction of overall es only one site pair.

Table C-5.448. Page 5. Secomber 15, 1994

		A:	rticul	ate C	oralline	Algae	(A)					Crypt	osip)	onia wo	odii (A)						Endo	cladi	a murica	ta (P)				
Site Pair Mv	dN	с	SE	N	0	SE	¢	7 D	P	N	c	SE	N	0	SE	CV	D	P	N	c	SE	N	0	SE	(ÇV I)	P
	6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.0 0.0	0.0		1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 6 6	0.00 10.00 9.17	3,00 8,09 6,11	4	0.00 3.13 0.83	0.00 3.13 0.83	3	- c	. 0	.000 .529 .267
Habitat Moans		0.00	0.00		0.00	0.0	0	0			0,00	0.00		0.00	0.00		0			6.40	4.73		1.30	1.30)	+		
Fisher's Stouffer's	Power Power				r-50% r-50%				0.655 0.500	Power Power				r-50% r-50%		P-val P-val		0.655 0.500	Power	0.051 0.083			r-50% r-50%			value value		
	6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.0	10	- 0	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	3.75 0.00 0.00	3.75 0.00 0.00	_	٥	0.363 1.000 1.000	6 6 6	1.25 0.00 0.00	1.25 0.00 0.00	4	0.83 2.50 0.00	0.83 1.77 0.00	7		. 0	.887 .204 .000
Habitat Means		0.00	0.00		0.00	0.0	10	0			0.00	0.00		1.27	1.27		-			0.43	0.43		1.10	0.87	7	-		
Fisher's Stouffer's	Power Power				r-50% r-50%				0.655 0.500	Power Power				r-50% r-50%		P-val P-val		0.403 0.398	Power Power	0.021 0.028			r-50% r-50%			value value		
14.1C/14.1 3 14.2C/14.2 3 62762C/50983 3	6 2 6	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.0 0.0	0			6 2 6	2.08 0.00 1.67	1.64 0.00 1.24		0.00 2.50 0.00	0.00 1.58 0.00	-	-	0.204 0.181 0.194	6 2 6	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00)	- c	, 1	.000 .000 .000
Habitat Means		0.00	0.00		0.00	0.0	0	o			1.27	0.93		0.83	0.53		1			0.00	0.00		0.00	0.00)	c	•	
Fisher's Stouffer's	Power Power				r-50% r-50%			alue alue	0.655 0.500	Power Power	0.066 0.026			r-50% r-50%	0.087 0.166	P-val P-val		0.151 0.121	Power Power				⊻-50% r-50%			value value		

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

Table C-5.448. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1992. Overstory removed June 1990. (Continued.)

			1			(2)						Micro	cladi	a boreal	is (A)					ı	Teorhod	omela/	Rhodome	la (P) (a)		
			SE	N N	s furcat	SE (A)	CV	D	P	N	С	SE	N	0	SE	CV	ם	P	N	С	SE	И	0	SE	¢ν	ם	P
4.1C/14.1 4.2C/14.2	1 6 1 6	0.00 0.00 0.00	0.00	6	5.42 0.00 0.00	4.49 0.00 0.00	-	- 0	0.219 1.000 1.000	6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00	-	0	1.000 1.000 1.000	6 6	0.00	0.00 0.00 0.00	4 6	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000
2762C/50983 abitat Mean Fisher's		0.00	0.00		1.80	1.50			0.303	Power	0.00	0.00		0.00 c-50% c-50%				0.655		0.00		Power	0.00 c-50% c-50%		P-va		0.655
Stouffer's 4.1C/14.1 4.2C/14.2	2 6 2 6	0.00 0.00 0.83	0.00 0.83	4	0.83	0.83 13.58 0.00	-	-	0.363 0.363 0.247 1.000	Power 6 6	0.00	0.00	6 4	0.00	0.00	-	- 0	1.000 1.000 1.000	6 6	0.42 0.00 0.00	0.42 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	0.363 1.000 1.000
2762C/50983 abitat Mean	ns	0.00 0.27 r 0.16	0.00		0.00 6.93	4.80		-	0.175	Power	0.00	0.00	Powe:	0.00 r-50%		P-va		0.655		0.13		Powe	0.00 r-50% r-50%	0.00	P-vā		0.403
Fisher's Stouffer's 4.1C/14.1 4.2C/14.2	3 6 3 2	1.67 0.00	1.67 0.00	Power 6 5	0.00 0.00	0.00	P-va - -	lue	0.278 0.363 1.000	Power 6 2	0.00 0.00 0.00	0.00	6 5	0.42 0.00 0.00	0.42	-	 - 0	0.500 0.363 1.000	6 2	3.75 0.00 0.00	2.39 0.00 0.00	6	0.00	0.00) -	- +	0.176
2762C/50983 abitat Mear Fisher's		0.00 0.57	0.00		0.00 0.00			, lue	1.000 0.403 0.398	Power	0.00	0.00	Powe	0.13 r-50% r-50%		P-va		0.403		1.27 0.01 0.00		Powe	0.00 r-50% r-50%		2-v		0.266 0.350

(a) Conera not separated.

x At least one site pair p value < D.100 in opposite direction of overall tests.

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

2 only one site pair

Only one site				Odon	thali	a flocco	osa (P)						Ptilot	a/Ne	optilota	(P) (b)					Mor	pholog	ical (roup:	Saccate	Rec	18	
	Mvd.			SE	N	0	SE	cv	D	P	N	С	SE	N	0	SE	ÇV	D	P	N	С	SE	N	0	SE	C	D V	P
1te Pair 4.1C/14.1 4.2C/14.2	1	6	0.00 0.00 0.00	0.00	6	0.00	0.0	- (0	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	6 4 6	0.00 00.00 0.00	0.00	-	0	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00)	- o	1.000 1.000 1.000
2762C/5098 abitat Mea		b	0.00	0.00	o	0.00	0.0		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	0.655
Fisher's Stouffer'	1	Power Power			Power	r-50% r-50%		P-va P-va	lue lue	0.655 0.500	Power Power				r-50%				0.655 0.500	Power				r-50% r-50%		P-1	value	0.500
4.1C/14.1 4.2C/14.2 2762C/5098	2 2	6	2.50 0.00 0.00	1.71 0.00 0.00	6 4	1.67 0.00 0.00	1.6 0.0 0.0	0 -	0	0.648 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 6	0.00 0.00 1.25	0.00 0.00 0.85	4 6	0.83 0.00 0.42	0.83 0.00 0.42	0 2	- 0	1,000
bitat Mea			0,83	0.57		0.57	0.5		+			0.00	0.00	Davis	0.00 er-50%	0.00		0	0.655	Power	0.43	0.30	Powe	0.40 r-50%	0.005	P-1	value	0.503
Fisher's Stouffer'		Power Power	0.003			r-50% r-50%	0.011	P-va P-va		0.540 0.448	Power Power				er-50%				0.500	Power	0.003			r-50%				0.660
1.1C/14.1 1.2C/14.2	3	6	13.75 6.25	9.46	6 5	0.42 1.50 0.00	0.4 1.5 0.0	0 -	+	0.182 0.391 0.178	6 2 6	0.00 1.25 0.00	0.00 1.25 0.00	5	5.42 0.00 0.00	3.56 0.00 0.00	- (+	0.179 0.500 1.000	6 2 6	1.67 0.00 1.67	1.24 0.00 1.24	5	1.25 0.50 1.88	0.85 0.50 1.88	8		0.374
2762C/5098 abitat Mea		6	2.08 7.40	1.36		0.63	0.6		,			0.43	0.43		1.80	1.20)	-			1.13	0.80		1.23	1.10		-	0.424
Fisher's Stouffer'		Power Power			Powe	r-50% r-50%		P-va P-va	lue lue	0.045 0.032	Power Power	0.011			er-50% er-50%		P-val P-val		0.341	Power Power	0.029 0.062			r-50% r-50%				0.424

Table C-5,448. Page 5. December 15, 1994

x At least one site pair p-value < 0.100 in opposite direction of 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. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1992. Overstory removed June 1990. (Continued.)

			F	alosa	ccion	glandi	orme (A)	ı					Hal	osac	cion app.	(A)					Morphol	logical	Group	; Fine	Filament	OUB	Ređa	
Site Pair Mv	vđ N		С	\$E	N	0	SE	CA	D	P	N	С	SE	N	•	SE	CA	D	P	N	c	SE	N	0	SE	CV	D	P
14.1C/14.1 1 14.2C/14.2 1 62762C/50983 1	6		0.00 0.00 0.00	0.00 0.00 0.00	4	0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6	0.00 0.00 0.00	0.00	4 6	0.00 0.00 0.00	0.00	-	0	1.000 1.000 1.000
Habitat Means			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		Ó			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		wer			Power			P-val P-val		0.655 0.500	Power Power				er-50%		P-va P-va		0.655				Power Power					0.655 0.500
14.1C/14.1 2	2 6 2 6 2 6		0.00 0.00 1.25	0.00 0.00 0.85	4	0.83 0.00 0.42	0.83 0.00 0.42	-	0	0.363 1.000 0.462	6 6 6	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6	0.00 0.00 0.42	0.00 0.00 0.42	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 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 Stouffer's		wer	0.000		Power					0.503 v 0.660	Power Power				er-50%		P-va. P-va.		0.655				Power Power					0.403
14.1C/14.1 3	3 6		1.67 0.00 1.67	1.24 0.00 1.24	5	1.25 0.50 1.88	0.85 0.50 1.88	-	+ - -	0.895 0.374 0.968	6 2 6	0.00 0.00 0.00	0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	2	11.67 0.00 6.25	5,69 0,00 2,39	5	0.00 3.00 0.00	0.00 3.00 0.00	-	-	0.082 0.374 0.031
Habitat Means			1,13	0.80		1.23	1.10	+	-			0.00	0.00		0.00	0.00		0			6.00	2.70		1.00	1.00		•	
Fisher's Stouffer's	Po	wer	0.040 0.067		Power Power			P-val P-val		0.424 0.401	Power Power				er-50% er-50%				0.655				Power Power					0.019 0.013

At least one site pair p-value < 0.180 in opposite direction of overall tasts.</p>
Direction of difference between habitat means is different than direction of overall tests.
2 Only one site pair.

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				Callit	thamni	on pikea	num (A	.)				Poly	sipho:	nia/P	terosipho	nia (A)	(a)				Morp	hologi	cal (roup: (Crustose	Reds		
site Pair	Mvd 1	N	С	SE	N	0	SE	C	7 D	P	N	c	SE	N	۰	SE	CA	D	P	N	С	SE	N	0	SE	CΛ	D	P
14,1C/14.1 14.2C/14.2 62762C/50983	1 1	6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00	0.0	0	- 0 - 0	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 6 6	0.42 0.00 0.00	0.42 0.00 0.00	4	0.00	0.00) –) –	0	0.363 1.000 1.000
Habitat Mean Fisher's Stouffer's	Þ	ower ower	0.00	0.00	Power Power		0.0	P-v		0.655	Power Power	0.00	0.00	Powe	0.00 r-50% r-50%		P-val		0.655 0.500	Power Power	0.13			0.00 r-50% r-50%		P-val		0.403
14.1C/14.1 14.2C/14.2 62762C/50983	2 2	6 6	0.00 0.00 0.00	0.00	6 4	0.00	0.0	00	- o	1.000 1.000 1.000	6 6 6	0.00 0.00 0.42	0.00 0.00 0.42	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 0.363	6 6 6	7.08 0.00 0.00	3.38 0.00 0.00	4	2.08 0.00 0.00	2.08 0.00 0.00) –	0	0.099 1.000 1.000
Habitat Mean Fisher's	2 5	ower	0.00	0.00	Power		0.0	P-v		0.655	Power Power	0.13	0.13		0.00 r-50% r-50%		P-vai		0.403 0.203	Power	2.37 0.069 0.021		Powe	0.70 r-50% r-50%		P-val		0.186 0.319
Stouffer's 14.1C/14.1 14.2C/14.2 62762C/50983	3	2	0.00 0.00 0.00	0.00	5	0.00 0.00 0.00	0.0	00	- o	1.000 1.000 1.000	6 2 6	11.67 0.00 6.25	5.69 0.00 2.39	6 5	0.00 3.00 0.00	0.00 3.00 0.00	-	+	0.082 0.374 0.031	6 2 6	3.75 0.00 0.00	2.87 0.00 0.00	5	15.42 15.50 0.00	15.42 12.10 0.00) -	-	0.652 0.219 1.000
Habitat Mean Fisher's Stouffer's	ns P	ower	0.00	0.00	Power		0.0	P-v		0.655	Power Power	6.00	2.70	Powe	1.00 r-50% r-50%		P-va P-va		0.019	Power Power	0.022 0.043		Powe	10.30 er-50% er-50%		P-val		0.234 0.316

⁽a) Genera not separated.

At least one site pair p value < 0.100 in opposite direction of overall tests.
 Olivection of difference between habital means is different than direction of overall tests.
 Only one site pair.

Table C-5.448. Algal Percent Cover. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1992, Overstory removed June 1990. (Continued.)

			(Crusto	Be C	oralline A	lgae (P)					Ħ11	ldenb	randia s	p. (P)								Petr	ocelis (E	?)		
Site Pair	Mvd	N	С	SE	N	0	SE	CV	D	P	N	С	SE	N	o	SE	CV	ם	P	_	N	С	SE	N	0	SE	ÇV D	P
14.1C/14.1 14.2C/14.2 62762C/5098	1	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.0 0.0 0.0	- t	000	1.000 1.000 1.000	6 6 6	0.42 0.00 0.00	0.42 0.00 0.00	4	0.00 0.00 0.00	0.00	-	٥	0.3 1.0 1.0	00	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- D	1.000
Habitat Mea	ns		0.00	0.00		0.00	0.0)	0			0.13	0.13		0.00	0.00		+				0.00	0.00		0.00	0.00	0	
Fisher's Stouffer's		Power Power				er-50% er-50%				0.655 0.500	Power Power				r-50% r-50%		P-va P-va				Power Power				r-50% r-50%		P-value P-value	0.655 0.500
14.1C/14.1 14.2C/14.2 62762C/5098	2 2 3 2	6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- (o		6 6 6	7.08 0.00 0.00	3.38 0.00 0.00	4	2.08 0.00 0.00	2.08 0.00 0.00	-		1.0	00	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- o - o	1.000
Habitat Mea	ns		0.00	0.00		0.00	0.0)	o			2.37	1.13		0.70	0.70						0.00	0.00		0.00	0.00	0	
Fisher's Stouffer's		Power Power				er-50% er-50%				0.655 0.500	Power Power	0.060 0.018			r-50% r-50%		P-va P-va		0.18		Power Power				r-50% r-50%		-value	
14.1C/14.1 14.2C/14.2 62762C/5098	3	6 2 6	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00	-	o	1.000 1,000 1.000	6 2 6	3.75 0.00 0.00	2.87 0.00 0.00	5	15.42 0.00 0.00	15.42 0.00 0.00	-	Ó	1.00	00	6 2 6	0.00 0.00 0.00	0.00	5	0.00 15.50 0.00	0.00 12.10 0.00	- o - o	1.000 0.219 1.000
Habitat Mea	ns		0.00	0.00		0,00	0.0)	o			1.27	0.97		5,13	5.13		-				0.00	0.00		5.17	4.03	-	
Fisher's Stouffer's		Power Power				er-50% er-50%				0.655 0.500	Power Power	0.000			r-50% r-50%		P-va P-va		0.5		Power Power	0.002 0.000			r-50% r-50%		P-value P-value	

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

Table C-5.449. Algal Percent Cover. Invertebrates. Cook Inlet/Renai. 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.

				Act	iniidae								Bal.	anomorph	a							Polyr	1acophor	a			
Site Pair Mv	d N	c	SE	Ŋ	0	SE	CV	D	P	N	С	SE	Ŋ	0	SE	CV	Þ	P	N	c	SE	N	0	SE	cv	D	P
14.1C/14.1 1 14.2C/14.2 1 62762C/50983 1	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00		0	1.000 1.000 1.000	6 6	1.67 8.75 27.92	1.24 5.76 10.05		3.75 5.62 6.67	1.41 5.63 3.96	-		0.268 0.665 0.080	6 6	0.00	0.00	4 6	0.00 0.00 0.00	0.00	-	0	1.000 1.000 1.000
Habitat Means Fisher's Stouffer's	Power Power	0.00	0.00	Power Power					0.655 0.500	Power Power	0.197	5.70		5.37 er-50% er-50%		P-val		0.177	Power Power	0.00		Power	0,00 c-50% c-50%		P-va P-va		0.655 0.500
14.1C/14.1 2	6 6	0.00	0.00	6 4	0.00 0.00 0.00	0.00 0.00 0.00		0	1.000 1.000 1.000	6 6 6	1.67 0.83 21.25	1.24 0.83 10.48	4	4.58 10.63 9.17	2.36 6.32 2.71	-		0.273 0.131 0.420	6 6	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00) <u>-</u>	0	1.000 1.000 1.000
Habitat Means		0.00	0.00		0.00	0.00		0			7.93	4.17		8.13	3.80		-			0.00	0.00		0.00	0.00		0	0.655
Fisher's Stouffer's	Power Power			Power Power					0.655 0.500	Power Power	0.238 0.186			er-50% er-50%		P-val P-val		0.129 0.498	Power				r-50% r-50%				0.655 0.500
14.1C/14.1 3	2	0.00	0.00	5	0.00	0.00		0	1.000 1.000 1.000	6 2 6	5.42 0.00 9.58	1.76 0.00 6.87	5	0.00 2.50 0.00	0.00 2.50 0.00	- (_	0.010 0.374 0.139	6 2 6	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00) -	0	1.000 1.000 1.000
Habitat Means		0.00	0.00		0.00	0.00		0			5.00	2.90		0.83	0.83	3				0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Power Power			Power					0.655 0.500	Power Power				er-50% er-50%		P-val P-val		0.012 0.033	Power Power				r-50% r-50%				0.655

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

Table C 5.449. Page 1. December 15, 1994

					Lo	ttlidae									36	tytilus							N. D.	luce11	a lamello)8# 			
Site Pair	Mvd N		С	SE	И	o	SE	. (cv	D P	_	N	С	SE	N	0	SE	CV	ם	P	N	С	SE	Ŋ	٥	SE	CV	, D	P
14.1C/14.1 14.2C/14.2 62762C/50983	1 6 1 6 3 1 6		0.42 0.00 0.00	0.42 0.00 0.00	4	0.00 0.00 0.00	0.0 0.0	0		+ 0.30 o 1.00 o 1.00	0	6 6	0.00 0.00 19.58	0.00 0.00 10.69	4	1.25 5.00 0.83	0.85 5.00 0.83	-	-	0.183 0.391 0.132	6 6 6	0.00 0.00 0.00	0.00	4 6	0.00	0.00 0.00 0.00	l -	- 0	1.000 1.000 1.000
Habitat Mear	ns		0.13	0.13		0.00	0.0	0		+			6.53	3.57		2.37	2.23	3	-			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Pov s Pov					r-50% r-50%				e 0.49		Power Power				≥-50% r-50%	0.016 0.006	P-val P-val		0.225 y 0.774	Power Power				r-50% r-50%				0.655
14.1C/14.1 14.2C/14.2 62762C/50983	2 6 2 6		0.42 0.00 0.42	0.42 0.00 0.42	4	0.00	0.0	0	-	+ 0.3 0 1.0 + 0.3	0.0	6 6 6	0.00 0.00 20.42	0.00 0.00 11.59	4	0.00 4.37 7.08	0.00 4.3 3.79	7 –	-	1.000 0.391 0.330	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00) -) -	- 0	1.000 1.000 1.000
Habitat Mear			0.27	0.27		0.00	0.0	0					6.80	3.87		3.83	2.7	3	-			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Pov					r-50% r-50%				e 0.2 e 0.1		Power Power				r-50% r-50%		P-val P-val		0.491 0.259	Power Power				r-50% r-50%				0.655
14.1C/14.1 14.2C/14.2 62762C/50981	3 6 3 2		0.00 0.00 0.00	0.00	6 5	0.00 0.00 0.00	0.0	0.0	-	o 1.0 o 1.0 o 1.0	0.0	6 2 6	1.67 0.00 14.58	1.67 0.00 9.50	5	0.00 0.00 0.00	0.00	- (0	0.363 1.000 0.179	6 2 6	0.42 0.00 0.00	0.42 0.00 0.00	5 4	0.00 0.00 0.00	0.00) -	- 0	0.363 1.000 1.000
Habitat Mean			0.00	0.00		0.00	0.0	00		0			5.43	3.73		0.00	0.00)	1			0.13	0.13		0.00	0.00		-	
Fisher's Stouffer's		ver ver				r-50% r-50%				e 0.6 e 0.5		Power Power				er-50% er-50%		P-val		0.141	Power Power				r-50% r-50%				0.403

x At least one site pair p-value < 0.180 in opposite direction of overall tests. y direction of difference between habitat means is different than direction of overall tests. z Galy one site pair.

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Table C-5.449. Algal Percent Cover. Invertebrates, Cook Inlet/Renai. Sheltered Rocky. June 1992. Overstory removed June 1990. (Continued.)

			_		Lit	torinidae	İ							P	orifera								c	nideria				
Site Pair	Mvd	1 N	С	SE	N	0	SE	CV	מ	P	N	С	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	c	V D	P
14.1C/14.1 14.2C/14.2 62762C/5098	1 1 3 1	6 6 6	0.00 0.00 0.00	0.00	4	0.42 0.00 0.00	0.42 0.00 0.00	- - -	0	0.363 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00	0	- 0	1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00	ı	0.13	0.13		-			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power				er-50% er-50%				0.403 0.398	Power Power				er-50% er-50%		-valu			Power Power				±-50% ±-50%				0.655
14.1C/14.1 14.2C/14.2 62762C/50983	2 2 3 2	6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.63 0.00	0.00 0.63 0.00	-	-	1,000 0.391 1.000	6 6 6	0,00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- 1	0	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 00.00 00.0	0.00	0	- o	1.000 1.000 1.000
Habitat Mean	ns		0.00	0.00		0.20	0.20		-			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	1.000
Fisher's Stouffer's		Power Power				r-50% r-50%	F			0.419 0.403	Power Power				r-50% r-50%		P-valu			Power Power				r-50% r-50%				0.655
14.1C/14.1 14.2C/14.2 12762C/50983	3 3 3 3	2	0.00 0.00 0.00	0.00 0.00 0.00	5	0.42 0.00 0.00	0.42 0.00 0.00	-	0	0.363 1.000 1.000	6 2 6	0.00 0.00 0.00	0.00 0.00 0.00	6 5 4	0.00 0.00 0.00	0.00 0.00 0.00	- 0	0	1.000 1.000 1.000	6 2 6	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00	3	- 0	1.000 1.000 1.000
Habitat Mear	r.s		0.00	0.00		0.13	0.13		-			0.00	0.00		0.00	0.00		5			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power				er-50% er-50%	F			0.403 0.398	Power Power				r-50% r-50%		-value -value		0.655 0.500	Power Power				≚-50% r-50%				0.655 0.500

x At least one sits pair p value < 0.100 in opposite direction of overall tests. Y Direction of difference between habital means as different than direction of overall tests. 2 Only one site pair.

Table C-5.450. Algal Percent Cover. Substrates. Cook Inlet/Renai. 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; C · coefficient of variation;

SE = standard error; D = direction of difference; · = control > oiled; - = control < oiled; o · control = oiled; P = probability value; dashes = insufficient data.

					:	Rock							Oil	Led Rock								Mud			
Site Pair	Mvd	N	c	SE	N	0	SB	CA	D P	N	С	ge	N	0	SE	CV D	P	N	С	SE	N	0	SE	CV D	P
14.1C/14.1 14.2C/14.2 62762C/50983	1 1 3 1	6 6 6	59.17 46.67 5.83	9.19 16.75 2.01	4	44.58 86.25 43.75	13.96 10.03 16.87		- 0.088	6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00	0.00 0.00 0.00	- o - o	1.000 1.000 1.000	6 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- 0	1.000
Habitat Mean	ns		37.23	9.33		58.23	13.63		-		0.00	0.00		0.00	0.00	0			0.00	0.00		0.00	0.00	0	
Fisher's Stouffer's	S	Power Power			Power Power				e 0.026 e 0.019	Power Power				c-50% c-50%		-value -value	0.655 0.500	Power Power			Power-			2-value 2-value	0.655 0.500
14.1C/14.1 14.2C/14.2 62762C/5098		6 6 6	10.83 16.25 12.50	6.88 15.76 6.74	4	27.08 46.25 16.25	8.25 13.48 8.43	-		6 6	0.00 0.00 0.00	0.00	4	0.00	0.00 0.00 0.00	- 0 - 0	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	- 0	1.000 1.000 1.000
Habitat Mean			13.20	9.80		29.90	10.07		-		0.00	0.00		0.00	0.00	0			0.00	0.00		0.00	0.00	0	
Fisher's Stouffer'	s	Power Power	0.550		Power Power				e 0.037 e 0.138	Power Power				r-50% r-50%		-value	0.655 0.500	Power Power			Power Power				0.655 0.500
14.1C/14.1 14.2C/14.2 62762C/5098	3	6 2 6	30.83 0.00 7.08	10.32 0.00 6.14	5	0.42 0.50 0.00	0.42 0.50 0.00	-	+ 0.020 - 0.374 + 0.233	6 2 6	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00	0.00 0.00 0.00	- 0		6 2 6	0.00 0.00 0.00	0.00	5	0.00	0.00 0.00 0.00	- 0	1.000 1.000 1.000
Habitat Mea			12.63	5.47		0.30	0.30		-		0.00	0.00		0.00	0.00	0			0.00	0.00		0.00	0.00	0	
Fisher's Stouffer'		Power Power			Power Power				e 0.030 e 0.067	Power Power				r-50% r-50%		-value -value	0.655 0.500	Power Power			Power Power				0.655 0.500

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

Table C 5.450. Page 1. December 15, 1994

					Sand								Shell	Fragment	8						F1	1amer	tous Diat	toms			
Site Pair My	vd N	С	ge	N	0	SE	cv	D	P	N	c	SE	N	0	SE	CV	D	P	N	С	SE	Ŋ	0	SE	CV	D	P
14.1C/14.1 1 14.2C/14.2 1 62762C/50983 1	1 6 1 6 1 6	0.00 0.00 0.00	0.00 0.00 0.00	4	0.00	0.00 0.00 0.00	-	Q	1.000 1.000 1.000	6 6 6	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 6	0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000
Habitat Means		0.00	0.00		0.00	0.00	•	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Power				r=50% r=50%				0.655	Power Power				r-50% r-50%		P-valu P-valu		0.655 0.500	Power Power			Powe:	c-50% c-50%				0.655 0.500
	2 6 2 6 2 6	0.00 0.00 0.00	0.00	4	0.00 0.00 10.83	0.00 0.00 10.83) –	o	1.000 1.000 0.363	6 6	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	o	1.000 1.000 1.000	6 6	0.00 0.00 0.00	0.00	4	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000
Habitat Means		0.00	0.00		3.60	3.60		-			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Power Power				r-50% r-50%				0.403	Power Power				r-50% r-50%		P-valu P-valu		0.655 0.500	Power Power				c-50% c-50%				0.655
14.1C/14.1 14.2C/14.2 62762C/50983	3 6 3 2 3 6	0.00 0.00 0.00	0.00	5	0.00	0.00	-	0	1.000 1.000 1.000	6 2 6	0.00 0.00 0.00	0.00 0.00 0.00	5	0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	6 2 6	0.00 0.00 0.00	0.00	5	0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000
Habitat Means		0.00	0.00		0.00	0.0		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Power Power	===			r~50% r~50%				0.655 0.500	Power Power				r-50% r-50%				0.655 0.500	Power Power				r-50% r-50%				0.655 0.500

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

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	
Dita Dair Word W	C 65	N O	SR 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 14.2C/14.2 1 6 62762C/50983 1 6	0.00 0.00		0.00 - o 1.000 0.00 - o 1.000	6 46.67 16.75 6 5.83 2.01	6 43.75 16.87 0.042	
Habitat Means	0.00 0.00	0.00	0.00 0	37.23 9.33	58.23 13.63 -	
Fisher's Power Stouffer's Power		Power-50% Power-50%	P-value 0.655 P-value 0.500	Power	Power-50% P-value 0.026 Power-50% P-value 0.019	
14.1C/14.1 2 6 14.2C/14.2 2 6 62762C/50983 2 6	0.00 0.00 0.00 0.00 0.00 0.00		0.00 - o 1.000 0.00 - o 1.000 10.83 0.363	6 10.83 6.88 6 16.25 15.76 6 12.50 6.74	4 46.25 13.48 0.135	35
Habitat Means	0.00 0.0	0 3.60	3.60 -	13.20 9.80	33.50 10.90 -	
Fisher's Power Stouffer's Power		Power-50% Power-50%	P-value 0.403 P-value 0.203	Power	Power-50% P-value 0.018 Power-50% P-value 0.035	
14.1C/14.1 3 6 14.2C/14.2 3 2 62762C/50983 3 6	0.00 0.0	0 6 0.00 0 5 0.00 0 4 0.00	0.00 - 0 1.000 0.00 - 0 1.000 0.00 - 0 1.000	6 30.83 10.32 2 0.00 0.00 6 7.08 6.14	5 0.50 0.50 0.374 4 0.00 0.00 - + 0.233	74
Habitat Means	0.00 0.0	0.00	0.00 0	12.63 5.47	0.30 0.30 +	
Fisher's Power		Power-50% Power-50%	P-value 0.655 P-value 0.500	Power Power	Power-50% P-value 0.030 Power-50% P-value 0.067	

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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 to different than direction of overall tests.
z Only one site pair.

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 - moter vertical drop; N = sample size; C = control mean; O = oiled mean; 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	Diver	sity I	ndex (a)						Alga	1 Tax	ca Richn	ess (b)							Tot	al Alga	e			
Site Pair	Mv	d N	c	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	CV	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1	6 6 6 6	0.00 0.05 0.00 0.00	0.00 0.05 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0 -	o 0	1.000 0.363 2.000 1.000	6 6 6	0.83 1.00 0.50 0.00 0.50	0.17 0.26 0.22 0.00 0.22	6 6 6	0.20 0.67 0.00 0.00 0.80	0.20 0.21 0.00 0.00	L -) -	+	0.036 0.341 0.076 1.000 0.353	6 6 6	55.42 44.17 21.67 0.00 19.58	16.92 18.58 15.67 0.00 16.26	6 6 6	4.50 35.00 0.00 0.00 41.00	4.50 15.29 0.00 0.00 21.22	-	+ + 0	0.025 0.550 0.163 1.000 0.453
Habitat Mea	ns		0.01	0.01		0.00	0.0	0	+			0.57	0.17		0.33	0.12	2	+			28.18	13.50		16,10	8.20		+	
Fisher's Stouffer'	s	Power Power			Power-					0.536 0.315	Power Power	0.601			r-50% r-50%				0.030 0.155	Power Power	0.131		Power			P-val P-val		0.050 0.213
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2	5 4 6 6	0.00 0.17 0.00 0.00 0.00	0.00 0.11 0.00 0.00 0.00	6 5 6	0.02 0.22 0.00 0.00 0.00	0.0 0.0 0.0 0.0	7 - D -	0	0.374 0.725 1.000 1.000	5 4 6 6 6	1.00 2.50 1.00 0.33 0.83	0.00 0.87 0.00 0.21 0.17	6 5 6	0.80 2.00 0.40 0.50 1.00	0.37 0.58 0.24 0.22 0.00	3 - 1 -	1	0.621 0.629 0.070 0.600 0.363	5 4 6 6	66.50 88.13 20.83 5.42 47.08	16.33 3.12 5.61 4.93 16.26	6 5 6	56.50 23.75 39.00 20.83 67.50	23.15 13.22 23.90 16.15 20.34	-	-	0.637 0.007 0.742 0.366 0.405
Habitat Mea	ກຮ		0.03	0.02		0.05	0.0	2	-			1.13	0.25		0.94	0.28	3	٠			45.58	9.24		41.52	19.36		-	
Fisher's Stouffer'	s	Power Power	0.025		Power-		0.027 0.002	P-val P-val		0.481	Power Power	0.361			r-50% r-50%				0.256 0.442	Power Power	0.070		Power			P-val P-val		0.500×y 0.711
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3	3 4 5 6 5	0.07 0.07 0.13 0.08 0.04	0.07 0.07 0.05 0.05 0.04	4 3 6	0.28 0.00 0.09 0.00 0.13	0.1 0.0 0.0 0.0	9 – 9 –	+	0.224 0.391 0.672 0.181	3 4 5 6 5	1.33 1.25 1.80 1.50 1.20	0.33 0.25 0.20 0.56 0.20	3	3.60 0.25 1.33 0.83 2.00	0.87 0.25 0.33 0.17	- - -	++	0.105 0.030 0.244 0.283	3 4 5 6 5	91.67 65.63 76.50 58.33 89.50	6.01 20.09 10.39 17.74 6.44	4 3 6	88.50 3.13 67.50 52.92 85.00	10.89 3.13 32.50 18.53	-	:	0.901 0.015 0.980 0.902
Habitat Mea	ns		0.08	a.a6		0.10	0.0	5	+			1.42	0.31		1.60	0.41					76.32	12.12		59.40	16.25		+	
Fisher's Stouffer'	s	Power	0.182		Power-		0.462			0.232 y 0.073	Power Power				r-50% r-50%				0.034 y 0.019	Power Power			Power					0.073 0.075

(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 rests. 2 only one site pair.

Motel Tamertebrates

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			To	otal Inver	ebrates								Rock					_			Perer	mials (P)		
Site Pair	Mvd N	c	SE	N (SB		CA D	p	N	С	SE	N	0	SE	CV	D :	P	Ŋ	С	88	N	0	SE	CV I) P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522 Habitat Mean	1 6 1 6 1 6 1 6 1 6	0.00 0.00 8.33 1.25 17.92	0.00 0.00 2.47 0.85 12.59	6 6. 6 4. 6 3. 5 12.	67 3. 58 1. 75 2. 50 6.	. 26 . 96 . 87 . 56 . 66	- +	0.114 0.065 0.194 0.576 0.952	6 6 6 6	44.58 55.83 70.00 98.75 62.50 66.34	16.92 18.58 14.79 0.85 16.81	6 6 6 5	59.50 58.33 95.42 96.25 46.50	21.13 15.22 1.87 2.56 17.51		- 0.	762 090 576	6	55.42 35.00 21.67 0.00 19.58 26.34	16.92 14.99 15.67 0.00 16.26	6 6	4.50 35.00 0.00 0.00 41.00	4.50 15.29 0.00 0.00 21.22 8.20		0.025 0.814 0.163 0.163 0.453
fisher's Stouffer's	Powe s Powe			Power-509 Power-509			value value		Power Power	0.048 0.035			r-50% r-50%	0.877				Power Power	0.119			-50% -50%		P~value	0.064
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 5 2 4 2 6 2 6 2 6	1.50 1.88 12.08 15.42 27.08	1.50 0.63 9.80 5.53 12.72	6 9. 5 6. 6 7.	58 4. 00 4. 08 3.	.00 .54 .00 .73	 - + - +	0.576 0.218 0.791 0.149 0.138	5 4 6 6	32.00 10.00 67.08 69.17 25.83	16.65 3.23 9.90 10.20 8.77	6 5 6	34.50 66.67 52.00 72.08 24.37	19.05 12.29 21.01 14.94 15.69		- 0.0	007 546 914	4	66.50 86.25 20.83 5.42 47.08	16.33 2.39 5.61 4.93 16.26	6 5 6	56.50 14.58 39.00 20.83 67.50	23.15 9.34 23.90 16.15 20.34		0.742
Habitat Mean Fisher's Stouffer's	Powe			7. Power-509 Power-509	0.849		value value		Power Power	40.82	9.76	Power	49.94 r-50% r-50%	16.60 1				Power Power	0.062 0.013		Power	39.68 -50% -50%	18.58 0.798 0.870	P-value	0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 4 3 5 3 6 3 5	0.83 5.00 0.50 5.42 4.50	0.83 5.00 0.50 3.19 3.00	4 0. 3 1. 6 3.	63 0. 67 <u>-</u>	.00 .63 .67 .68		0.423 0.557 0.554 0.933	3 4 5 6 5	7.50 29.37 22.50 24.58 6.00	5.20 19.19 10.34 15.51 3.76	3	11.50 96.25 28.33 28.33 15.00	20.89 2.98 28.33 15.41	-	- 0.1 - 0.9	012 928	4 5 6	91.67 64.38 36.50 42.50 87.00	6.01 21.10 15.94 15.40 8.12	4 3 6	78.00 3.13 44.17 52.92 85.00	14.82 3.13 29.02 18.53		0.546 0.020 0.740 0.606
Habitat Mear Fisher's Stouffer's	Powe		2.50	Power-50%			+ value value		Power Power	18.00	10.80		35.88 c-50% c-50%	14.40 E	-value	e 0.0		Power Power	64.42 0.274		Powe≃ Power				0.096

 $[\]kappa$ At least one size pair p value <0.000 in opposite direction of overall tests. y Direction of difference between habitat means is diffarent than direction of overall tests. Only one site pair.

Table C-5.451. Algal Percent Cover. Totals and Seasonal Groups, Prince William Sound. Sheltered Rocky, August 1993. Overstory removed May 1990. (Continued.)

			_		Anı	nuals (A)						Ephen	merals (NE)										
Site Pair	Mvc	d N	С	SE	N	0	SE	ÇV	D P	N	c	8E	N	0	SE	CV D	P	N	С	SB	N	0	SE	CV D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1	6 6 6	0.00 9.17 0.00 0.00	0.00 9.17 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	1.000 + 0.363 5 1.000 5 1.000 5 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0	1.000		<u> </u>						
Habitat Mean	ns		1.84	1.84		0.00	0.00				0.00	0.00		0.00	0.00	0									
Fisher's Stouffer's	s	Power Power				r-50% r-50%			0.536 0.315	Power Power			Power	r-50% r-50%			0.732 0.500	Power Power			Power-			P-value P-value	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2	5 4 6 6	0.00 1.88 0.00 0.00	0.00 1.20 0.00 0.00 0.00	6 5 6	0.00 9.17 0.00 0.00 0.00	0.00 5.07 0.00 0.00 0.00		1.000 - 0.345 - 1.000 - 1.000 - 1.000	5 4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 2.08 0.00 0.00 0.00	0.00 1.00 0.00 0.00 0.00	- 0 - 0 - 0	1.000 0.081 1.000 1.000								
Habitat Mean	r.s		0.38	0.24		1.84	1.02		_		0.00	0.00		0.42	0.20	_									
Fisher's Stouffer's		Power Power	0.001 0.000			r-50% r-50%			0.527	Power Power	0.013		Power Power			P-value P-value	0.287 0.177	Power Power			Power-			P-value P-value	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	5	0.00 1.25 40.00 15.83 2.50	0.00 1.25 19.17 13.49 2.50	4 3 6	10.50 0.00 23.33 0.00 0.00	4.90 0.00 23.33 0.00		0.391	3 4 5 6 5	0.00 0.00 40.00 15.83 0.00	0.00 0.00 19.17 13.49 0.00	4 3 6	0.00 0.00 23.33 0.00 0.00	0.00 0.00 23.33 0.00	- 0 - 0 	1.000 1.000 0.571 0.240								
Habitat Mear	n.s		11.92	7.30		6.76	7.05	-	+		11.16	6.54		4.66	5.82	+									
Fisher's Stouffer's		Power Power	0.052			r-50% r-50%			0.258x 0.100	Power Power	0.021 0.029		Power Power			P-value P-value	0.300 0.143	Power Power			Power- Power-			P-value P-value	

^{*} At least one site pair p-value < 0.100 in opposite direction of overall tasts.</p>
y Direction of difference between habital means is different than direction of overall tests.
7 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; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

				7	rotal C	hloropl	hyta					Morp	hologi	cal 6	Froup: B	laded Gr	eens					Blac	ded G	reens (AE) (a)			
Site Pair	Mvd	N	С	SE	N	0	SE	CV	D	P	N	c	SE	N	0	SB	CV :	D	P	N	C	SE	N	0	SE	cv	Ð	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) -) -	0 0 0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- (0 0 0	1.000 1.000 1.000 1.000	66666	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000
Habitat Mear	ns		0.00	0.00		0.00	0.00)	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		O	
Fisher's Stouffer's	s	Power Power			Power Power					0.732 0.500	Power Power				r-50% r-50%		P-value P-value		0.732 0.500	Power Power				r-50% r-50%		-val		0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2	5 4 6 6 6	0.00 0.63 0.00 0.00	0.00 0.63 0.00 0.00	6 5 6	0.00 2.08 0.00 0.00	0.00 1.00 0.00 0.00) -) -	0	1.000 0.376 1.000 1.000	5 4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- e	0	1.000 1.000 1.000 1.000	5 4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mear	ns		0.12	0.12		0.42	0.20)	-			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	s	Power Power	0.007		Power Power			P-val P-val		0.543 0.319	Power Power				r-50% r-50%		P-value P-value		0.732 0.500	Power Power				≃-50% ≃-50%		-val		0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3	3 4 5 6 5	0.00 0.00 40.00 15.83 2.50	0.00 0.00 19.17 13.49 2.50	4 3 6	0.50 0.00 23.33 0.00 0.00	0.50 0.00 23.33 0.00	- -		0.374 1.000 0.571 0.240	3 4 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- (Q	1.000 1.000 1.000 1.000	3 4 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mear	ns		11.66	7.04		4.76	5.95	i	+			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		o	
Fisher's Stouffer's	8	Power Power	0.015		Power Power					0.381	Power Power				r-50% r-50%		P-value P-value		0.698 0.500	Power Power				2-50% 2-50%				0.698 0.500

(a) Korzemonia, Monoacroma. Thus 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. x Only one site pair.

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			Morpholog	gical G	Group:	Fine !	Filamente	ous G	reer	78			λC	rosip	phonia sp.	(A)					Ch	aetomor	pha/F	thizoclon	ium (A)	(a)		
Site Pair	Mvd	ı N	С	SE	N	٥	8B	cv	D	P	N	С	SE	N	0	8B	CV I	D	P	N	С	SE	N	0	SE	cv	D	р
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 00.0 00.0	6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c	5	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	00.00 00.0 00.0 00.0	-	0	1.000 1.000 1.000 1.000
Habitat Mea	ins		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	C)			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	s	Power Power			Power Power					0.732 0.500	Power Power				er-50% er-50%		P-value P-value		0.732 0.500	Power Power				r-50% r-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2	4 6 6	0.00 0.63 0.00 0.00 0.00	0.00 0.63 0.00 0.00 0.00	6 5 6	0.00 2.08 0.00 0.00 0.00	0.00 1.00 0.00 0.00	-	0	1.000 0.376 1.000 1.000	5 4 6 6	0.00 0.63 0.00 0.00	0.00 0.63 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 4	+ !	1.000 0.391 1.000 1.000	5 4 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000
Habitat Mea	ins		0.12	0.12		0.42	0.20		-			0.12	0.12		0.00	0.00		+			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	s	Power Power			Power Power					0.543 0.319	Power Power				er-50% er-50%		P-value P-value		0.550 0.325	Power Power				r-50% r-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3	3 4 5 6 5	0.00 0.00 40.00 15.83 2.50	0.00 0.00 19.17 13.49 2.50	4 3 6	0.50 0.00 23.33 0.00 0.00	0.50 0.00 23.33 0.00	-	0	0.374 1,000 0.571 0.240	3 4 5 6 5	0.00 0.00 0.00 0.00 2.50	0.00 0.00 0.00 0.00 2.50	4 3 6	0.50 0.00 0.00 0.00 0.00	0.50 0.00 0.00 0.00	- c	o :	0.374 1.000 1.000 1.000	3 4 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mea	ns		11.66	7.04		4.76	5.95		+			0.50	0.50		0.10	0.13	-	-			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	s	Power Power			Power Power					0.381	Power Power				er-50% er-50%		P-value P-value		0.483 y 0.450	Power Power				r-50% r-50%				0.698 0.500

(e) Cenera not separated. x At least one site pajr p-value < 0.100 in opposite direction of overall tests. y Direction of difference between habitat means is different than direction of overall tests. 2 Only one site pair.

Table C-5.452. Algal Percent Cover. Chlorophyta. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed May 1990. (Continued.)

				C1	adoph	ora sp.	(AE)						U	loth	rix sp. (A	AB)						τ	rospo	ra sp. (A	Æ)			
Site Pair	Mvd	N	С	SE	N	0	SB	CV	D	P	N	С	SE	N	0	SE	CA	D	P	N	C	SE	N	0	SE	ÇV	Þ	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1 1 1	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) -) -) -	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	0 0 0 0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	1 1 1 1 1	0	1.000 1.000 1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00		0.00	0.00)	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'		Power Power				r-50% r-50%				0.732 0.500	Power Power				er-50% er-50%		P-val P-val		0.732 0.500	Power Power				r-50% r-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 2.08 0.00 0.00 0.00	0.00 1.00 0.00 0.00) ~) ~	0	1.000 0.081 1.000 1.000	5 4 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 5 6 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000 1.000	5 4 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000
Habitat Mea	r.s		0.00	0.00		0.42	0.20)	-			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		Ω	
Fisher's Stouffer'		Power Power	0.010			r-50% r-50%		P-val P-val		0.287 0.177	Power Power				er-50% er-50%		P-val P-val			Power Power				r-50% r-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3		0.00 0.00 40.00 15.83 0.00	0.00 0.00 19.17 13.49 0.00	4 3 6	0.00 0.00 23.33 0.00 0.00	0.00 0.00 23.33 0.00) - 3 -	0	1.000 1.000 0.571 0.240	3 4 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 4 3 6 1	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	-	1,000 1.000 1.000 1.000	3 4 5 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	0.00 00.00 00.00 0.00	0.00 0.00 0.00 0.00	- - - -	0	1.000 1.000 1.000 1.000
Habitat Mea	ne		11.16	5.54		4.66	5.8	?	+			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'		Power Power	0.024 0.032			r-50% r-50%	0.017 0.023	P-val P-val		0.300 0.143	Power Power				er-50% er-50%		P-val P-val		0.698 0.500	Power Power				r-50% r-50%				0.698 0.500

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

Table 5-5.452. Page 3. December 15, 1994

		Mo	rphologic	al Gro	oup:	Tubular	and Sa	ccate	Gre	ens		B1:	idingi	a/Ent	eromorph	(AE) (a)											
te Pair	Mvd	N	c	SE	N	0	SE	CV	D	P	N	С	BE	N	٥	SE	CA	ם	P	N	C	SE	N	0	SE	cv	Þ	P
25C/1424 3C/453 1C/601 8C/598 322C/1522	1 1 1 1	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0 - 0 - 0 -	0 0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000							- "		
bitat Mea	ns		0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00		٥										
Fisher's Stouffer'		ower				r-50% r-50%		P-val		0.732 0.500	Power Power				r-50% r-50%		P-val P-val		0.732 0.500	Power Power			Power Power					
25C/1424 3C/453 1C/601 8C/598 22C/1522	2 2 2 2 2	4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0 - 0 -	0	1.000 1.000 1.000 1.000	5 4 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0 0 0	1.000 1.000 1.000 1.000									
bitat Mea	ns		0.00	0.00		0.00	0.0	0	O			0.00	0.00		0.00	0.00		0										
Fisher's Stouffer'		ower				r-50% r-50%				0.732 0.500	Power Power				r-50% r-50%		P-val P-val		0.732 0.500	Power Power			Power Power			P-val P-val		
825C/1424 53C/453 01C/601 08C/598 522C/1522	3 3 3 3	4 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0	0 -	0	1.000 1.000 1.000 1.000	3 4 5 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	4 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000									
abitat Mea	ıns		0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00		0										
Fisher's Stouffer'		ower				r-50% r-50%				0,698 0.500	Power Power				r-50% r-50%		P-val P-val		0.698 0.500	Power Power			Power Power			P-val P-val		

⁽a) Genera not separated.

x At least one with pair p-value < 0.100 η apposite direction of overall tests. y direction of difference between babitat means is different than direction of overall tests. 2 GHz one mite pair.

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; 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 1	hacoph	yta				Mor	phologi	cal	Group:	Bladed Br	OWDS					Tota	l Fu	cus gardn	eri (P)			
Site Pair	Mvd	N	С	SE	N	0	SE	CV I	P	N	С	SE	N	0	SE	CV I	D	P	N	С	SE	N	0	88	C/	V D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1		55.42 35.00 21.67 0.00 19.58	16.92 14.99 15.67 0.00 16.26	6 6 6	4.50 35.00 0.00 0.00 41.00	4.50 15.29 0.00 0.00 21.22		0.814 0.163 1.000	6 6 6 6	55.42 35.00 21.67 0.00 19.58	16.92 14.99 15.67 0.00 16.26	6 6	4.50 35.00 0.00 0.00 41.00	4.50 15.29 0.00 0.00 21.22		+ 0	0.025 0.814 0.163 1.000 0.453	6 6 6 6	55.42 35.00 21.67 0.00 19.58	16.92 14.99 15.67 0.00 16.26	6 6	4.50 35.00 0.00 0.00 41.00	4.50 15.29 0.00 0.00 21.22	-	- + - o	0.025 0.814 0.163 1.000 0.453
Habitat Mean	าธ		26.34	12.78		16.10	8.20	4			26.34	12.78		16.10	8.20					26.34	12.78		16.10	8.20		-	
Fisher's Stouffer's	3	Power Power			Power-			P-value P-value	0.064	Power Power	0.120			er-50% er-50%		P-value P-value		0.064 0.273	Power Power	0.112			52-20# 52-20#				0.064 0.273
4825C/1424 453C/453 601C/601 598C/598 1522C/1522		4 6	66.50 76.25 20.83 5.42 47.08	16.33 8.20 5.61 4.93 16.26	6 5 6	55.50 11.67 39.00 20.83 67.50	22.75 4.36 23.90 16.15 20.34		0.001 0.742 0.366	5 4 6 6	66.50 75.63 20.83 5.42 47.08	16.33 8.06 5.61 4.93 16.26	6 5 6	55.50 4.58 39.00 20.83 67.50	22.75 2.45 23.90 16.15 20.34	- 4 - 4	+ - -	0.600 0.000 0.742 0.366 0.405	5 4 6 6 6	66.50 75.63 20.83 5.42 47.08	16.33 8.06 5.61 4.93 16.26	6 5 6	55.50 4.58 39.00 20.83 67.50	22.75 2.45 23.90 16.15 20.34	-	- + 	0.600 0.000 0.742 0.366 0.405
Habitat Mean	ıs		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 Stouffer's		Power Power	0.075 0.018		Power-			P-value P- v alue		Power Power	0.073 0.012			er-50% er-50%		P-value P-value		0.505 _{×y} 0.882	Power Power	0.070			er-50% er-50%				0.505 _{×y} 0.882
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	3 4 5 6 5	65.00 62.50 33.00 41.67 87.00	22.91 22.66 16.19 14.98 8.12	4	71.50 3.13 44.17 52.92 77.50	15.58 3.13 29.02 18.53	+	0.031 0.606 0.582	3 4 5 6 5	65.00 61.25 33.00 41.67 87.00	22.91 23.73 16.19 14.98 8,12	3	71.50 3.13 44.17 52.92 77.50	15.58 3.13 29.02 18.53			0.774 0.062 0.606 0.582	3 4 5 6 5	65.00 61.25 33.00 41.67 87.00	22.91 23.73 16.19 14.98 8.12	4 3 6	71.50 3.13 44.17 52.92 77.50	15.58 3.13 29.02 18.53	-		0.774 0.062 0.606 0.582
Nabitat Mean	:3		57.84	16.98		19.81	16.55	-			57.60	17.18		49.84	16.55	-	-			57.60	17.18		49.84	16.55		-	
Fisher's Stouffer's		Power Power	0.016 0.004		Power Power			P-value P-value	0.560xy 0.715	Power Power	0.018 0.006			er-50% er-50%	0.551	P-value P-value		0.556 _{xy} 0.660	Power Power	0.017			er-50% er-50%				0.556xy 0.660

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

Table C-5.453. Page 1. December 15, 1994

			Mult Fu	Cus g	ardneri	(P) (>	3cm)			Juven	ile Fu	cus	gardneri	(P) (<=	2cm)					Fu	cus S	tipes (P)	(a)			
Site Pair	Mvd N	C	SE	N	0	SE	CV D	P	N	C	8E	N	0	8E	ĊV	D	Þ	N	С	SE	N	0	SE	CV	7 D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 6 1 6 1 6 1 6 1 6	55.42 35.00 21.67 0.00 19.58	16.92 14.99 15.67 0.00 16.26	6 6 6 5 5	3.50 35.00 0.00 0.00 41.00	3.54 15.29 0.00 0.00 21.29	9 - + 0 - + 0 - 0 2	0.163 1.000	6 6 6	0.00 0.00 0.00 0.00 0.00		5 6 6 5	1.00 0.00 0.00 0.00 0.00	1.00 0.00 0.00 0.00 0.00	-	0 0	0.374 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 5	0.50 0.00 0.00 0.00 0.00	0.50 0.00 0.00 0.00 0.00) –) –) –	- 0	0.374 1.000 1.000 1.000 1.000
Habitat Mear	15	26.34	12.78	3	15.90	8.0) +			0.00	0.00		0.20	0.20		-			0.00	0.00		0.10	0.10)	-	
Fisher's Stouffer's	Pow Pow				r-50% r-50%		P-value P-value		Power Power				r-50% r-50%		P-valu P-valu		0.542 0.451	Power Power				r-50% r-50%				0.542 0.451
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 5 2 4 2 6 2 6 2 6	65.50 75.63 20.42 5.00 46.25	17.16 8.06 5.79 5.00 16.71	6 5	55.50 3.75 39.00 20.83 67.50	22.75 2.35 23.96 16.15 20.36))	0.000 0.728 0.321	5 4 6 6	1,00 0.00 0.42 0.42 0.83	1.00 0.00 0.42 0.42 0.83	6	0.00 0.83 0.00 0.00	0.00 83.0 0.00 0.00	- - -	- + +	0.374 0.363 0.363 0.363 0.363	5 4 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 00.0 0.00 0.00	- -	0	1.000 1.000 1.000 1.000
Habitat Mean	ıs	42.56	10.56	i	37.32	17.13	2 -			0.52	0.52		0.16	0,16		+			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Pow Pow				r-50% r-50%		P-value P-value	0.460×y 0.864	Power Power				r-50% r-50%		P-valu P-valu		0.173 0.228	Power Power				r-50% r-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 4 3 5 3 6 3 5	65.00 61.25 32.50 41.67 87.00	22.91 23.73 16.28 14.98 8.12	4 3 6	71.50 2.50 44.17 52.92 77.50	15.58 2.50 29.02 18.50) - + 2 3	0.059 0.597	3 4 5 6 5	0.00 0.00 0.50 0.00	0.00	5 4 3 6 1	0.00 0.63 0.00 0.00	0.00 0.63 0.00 0.00	- -	-	1.000 0.391 0.374 1.000	3 4 5 6 5	0.00 0.00 0.50 0.00	0.00 0.00 0.50 0.00	4 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- -	· · · · · · · · · · · · · · · · · · ·	1.000 1.000 0.374 2.000
Habitat Mean	S	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 Stouffer's	Pow Pow				r-50% r-50%		P-value P-value	0.553×y 0.664	Power Power				r-50% r-50%		P-valu P-valu		0.585 y 0.601	Power Power				r-50% r-50%				0.483 0.417

⁽a) Dead Purus plants or stipes without blades. x At least one site pair p-value < 0.180 in opposite direction of overall tests. y Direction of difference between habitat means is different than direction of overal) tests. z Only one site pair.

Table C-5.453, Algal Percent Cover, Phaeophyta, Prince William Sound, Sheltered Rocky, August 1993. Overstory removed May 1990. (Continued.)

		F	etalor	nia/Pur	ctaria	(AE) (b)				Мо	rphologic	al Gr	oup:	Coarse 1	Filament	ous Br	OWI	18			Þί	ctyosi	phon sp.	(A)			
Site Pair Mv	va N	С	SE	N	0	SB	CV	ם	Þ	N	С	9R	N	٥	SE	CA I	,	P	N	Ü	SE	N	0	BE	СĀ	D	P
4825C/1424 1 453C/453 1 601C/601 1 598C/598 1 1522C/1522 1	1 6 1 6 1 6 1 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	-	0	1.000 1,000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c))	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 2.000
Habitat Means		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	C)			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Power Power			Power-					0.732 0.500	Power Power				er-50% er-50%		-value -value		0.732 0.500	Power Power			Power Power					0.732 0.500
453C/453 2 601C/601 2 598C/598 2	2 5 2 4 2 6 2 6 2 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	5 4 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	6 5 6	0.00 0.42 0.00 0.00	0.00 0.42 0.00 0.00	- c - c - c	-)	1.000 0.363 1.000 1.000	5 4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 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	
Fisher's Stouffer's	Power Power			Power-			-va. -va.		0.732 0.500	Power Power				er-50% er-50%		-value -value		0.536 0.315	Power Power			Power Power					0.732 0.500
4825C/1424 3 453C/453 3 601C/601 3 598C/598 3 1522C/1522 3	3 3 3 4 3 5 3 6 3 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	3 4 5 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c - c - c - c		1.000 1.000 1.000 1.000	3 4 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000
Habitat Means		0.00	0.00		0.00	0.00		O			0.00	0.00		0.00	0.00	C)			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Power Power			Power-					0.698 0.500	Power Power				er-50% er-50%		P-value P-value		0.698 0.500	Power Power			Power Power		ž			0.698 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 habital means is different than direction of overall tests. τ Only one site pair.

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			му	elophy	cus/8	cytosipho	n (A) (a)			Morpholog	ical G	roup	: Pine Fi	.lamento	us Brow	WITE			Fi:	ne Fila	mento	us Brown	s (AE)	(b)		
Site Pair	Myd	1 N	С	æ	N	0	ш	ÇV	D F	N	c	SE	N	0	SE	CA D		P	Ħ	С	SE	N	0	SE	CV	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	o 1.0 o 1.0 o 1.0 o 1.0	00 6 00 6 00 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0 - 0	1. 1.	.000 .000 .000 .000	6 6 6 6	0.03 0.03 0.03 0.03 0.03	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00		0.00	0.00		0		0.00	0.00		0.00	0.00	0				0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	s	Power Power				-50% -50%		P-valu	ie 0.7					r-50% r-50%		-value		.732 .500	Power Power			Power-			P-valu P-valu).732).500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2 2	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.42 0.00 0.00	0.00 0.42 0.00 0.00 0.00	-	o 1.0 - 0.3 o 1.0 o 1.0 o 1.0	63 4 00 6 00 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0 - 0	1. 1.	.000 .000 .000 .000	5 4 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mea	ns		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		0	
Fisher's Stouffer'	s	Power Power			Power			P-valu						r-50% r-50%		-value -value		.732 .500	Power Power			Power:			P-valu P-valu		
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	o 1.0 o 1.0 o 1.0 o 1.0	00 4 00 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- 0 - 0 - 0 - 0	1.	.000 .000 .000 .000	3 4 5 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mea	r.s		0.00	0.00		0.00	0.00		0		0.00	0.00		0.00	0.00	0				0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	s	Power Power			Power	r-50% r-50%		P-valu	ie 0.6 ie 0.5					r-50% r-50%		-value -value		.698 .500	Power Power			Power-			P-valu P-valu		0.698 0.500

⁽a) Camera not separated.

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

Table C-5.453. Algal Percent Cover. Phaeophyta. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed May 1990. (Continued.)

			Morph	ologic	cal Gr	oun: Sa	ccate B	COWILE			L	eathea	ia/Co	loomenia	(A) (a)						Sora	inther	a ulvoide	8a (A)			
Site Pair	Mvd	1 N	С	SE	N	O	22	ev D	P	N	C :	SE	N	U	35	€4 T	,	r		-	هم	44	v	***	· E		P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1		0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	- 0 - 0 - 0	1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00	5 6 6 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0	5	1.000 1.000 1.000 1.000 1.000	6 6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c	1 1	.000 .000 .000 .000
Habitat Mea	ns		0.00	0.00		0.00	0.00	0			0.00	0.00		0.00	0.00	C	3			0.00	0.00		0.00	0.00	c		
Fisher's Stouffer'	s	Power Power			Power Power			P-value P-value	0.732	Power Power			Power Power			-value -value		0.732 0.500	Power Power				r-50% r-50%	E	v-value v-value	0	.732 .500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2	4 6 6	0.00 0.63 0.00 0.00	0.00 0.63 0.00 0.00	6 5 6	0.00 6.67 0.00 0.00	0.00 4.27 0.00 0.00 0.00	- 0 0 - 0	0.391 1.000 1.000	5 4 6 6	0.00 0.63 0.00 0.00	0.00 0.63 0.00 0.00	6 5 6	0.00 6.67 0.00 0.00	0.00 4.27 0.00 0.00 0.00	- c	0	1.000 0.391 1.000 1.000	5 4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		1 1	.000 .000 .000 .000
Habitat Mea	ıns		0.12	0.12		1.34	0.86	-			0.12	0.12		1.34	0.86		-			0.00	0.00		0.00	0.00	C	1	
Fisher's Stouffer'	s	Power Power	0.002		Power			P-value P-value		Power Power	0.001			r-50% r-50%		-value		0.550 0.325	Power Power				r-50% r-50%	I	-value	0	.732 .500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	5 6	0.00 1.25 0.00 0.00	0.00 1.25 0.00 0.00	4 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- ·	0.391 1.000 1.000	3 4 5 6 5	0.00 1.25 0.00 0.00 0.00	0.00 1.25 0.00 0.00 0.00	3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 6	÷ 0	1.000 0.391 1.000 1.000	3 4 5 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6 1	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c	1 1	.000 .000 .000
Habitat Mea	ากร		0.26	0.26		0.00	0.00	+			0.26	0.26		0.00	0.00		-			0.00	0.00		0.00	0.00	()	
Fisher's Stouffer'	ន	Power Power			Power Power			P-value P-value	0.492	Power Power				r-50% r-50%		e-value e-value		0.492 0.321	Power Power				r-50% r-50%	I			.698 .500

(a) Genera not separated.

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

Table C-5.453. Page o. December 15, 1994

			Morph	ologic	al Gr	oup: Cru	stose	Browns	•				ia/Pet	roderma													
Site Pair	Mvd	d N	С	SE	N	0	SE	ĊΨ	D	P	N	С	SE	N	0	SE	CV	D	P	N	c	SB	N	0	SE	CV D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	6 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0 - 0 - 0 -	0 0 0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	6 6 5	0.00 0.00 0.00 0.00	0,00 0.00 0.00 0.00 0.00	- - -	0 0 0	1.000 2.000 1.000 1.000								
Habitat Mea Fisher's Stouffer'		Power Power		0.00	Power	r-50% r-50%		P-val P-val	ue		Power Power			Power	r-50% r-50%		P-valu		0.732 0.500	Power Power				r-50% r-50%		-value -value	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2	5 4 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0 - 0 -	0	1.000 1.000 1.000 1.000	5 4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 00.0 00.0 00.0	-	0 0 0	1.000 1.000 1.000 1.000 1.000								
Habitat Mea		Power	0.00	0.00	Powe	0.00 r-50% r-50%	0.0	P-val		0.732	Power	0.00	0.00	Powe:	0.00 r=50% r=50%		P-valu		0.732 0.500	Power Power				r~50% r~50%		-value -value	
Stouffer' 4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3	9 Power 3 4 5 6 5 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 4 3 6	0.00 0.00 0.00 0.00	0.0	0 - 0 - 0 -	0	1.000 1.000 1.000 1.000	3 4 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 4 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0 0 0	1.000 1.000 1.000								
Habitat Mea	ıns		0.00	0.00	,	0.00	0.0	0	o			0.00	0.00		0.00	0.00		0									
Fisher's Stouffer'	9	Power Power				r-50% r-50%		P-val P-val			Power Power				r-50% r-50%				0.698 0.500	Power Power				r-50% r-50%		-value -value	

⁽a) Genera not separated.

 $[\]kappa$ At least one site pair p-value < 0.100 in opposite direction of overall tests.) Direction of difference between habital means is different than direction of overall tests. 2 Only one site pair.

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.

				7	rotal	Rhodoph	yta				Morphological Group: Bladed Reds										Bangia sp. (AE)											
Site Pair	Mvd	מו	C	SE	n	0	SE	cv	D	P	N	c	SE	N	0	ŞE	CA	D	P	N	¢	8E	N	0	SE	cv	D	P				
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6 6 6	0.00 9.17 0.00 0.00 0.00	0.00 9.17 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00) -	0	1.000 0.363 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	00000	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000				
Habitat Meas	ทธ		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		0					
Fisher's Stouffer'	\$	Power			Power			P-val P-val		0.536	Power Power				r-50% r-50%		P-val P-val		0.732 0.500	Power Power			Power Power					0.732				
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2		0.00 11.25 0.00 0.00 0.00	0.00 8.26 0.00 0.00 0.00	6 5 6	1.00 10.00 0.00 0.00 0.00	1.00 9.01 0.00 0.00) -	+ 0 0	0.374 0.826 1.000 1.000	5 4 6 6 6	0.00 5.00 0.00 0.00 0.00	0.00 5.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.0 0.0 0.00 0.00	- - - -	0 - 0 0 0	1.000 0.391 1.000 1.000	5 4 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000				
Habitat Mea	ns		2.26	1.66		2.20	2.0	כ	-			1.00	1.00		0.00	0.00		۲			0.00	0.00		0.00	0.00		О					
Fisher's Stouffer'	ş	Power Power	0.000		Power		0.010			0.573 y 0.497	Power Power				er-50%		P-val P-val		0.550 0.325	Power Power				c-50% c-50%		P-va P-va		0.732 0.500				
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3	3 4 5 6 5	26.67 3.13 3.50 0.83 0.00	26.67 3.13 2.45 0.83 0.00	4 3 6	16.50 0.00 0.00 0.00 7.50	6.2 0.0 0.0 0.0	0 - 0 - 0 -	-	0.985 0.391 0.193 0.363	3 4 5 6 5	0.00 0.00 0.00 0.42 0.00	0.00 0.00 0.00 0.42 0.00	4 3 6	4.00 0.00 0.00 0.00 0.00	1.27 0.00 0.00 0.00	- - - -	0 0 + 0	0.021 1.000 1.000 0.363	3 4 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6 1	0.00 0.00 0.00 0.00	0.00	-	0 0 0	1.000				
Habitat Mea	ns		6.82	6.62		4.80	1.5	7	+			0.08	0.08		0.80	0.33		-			0.00	0.00		0.00	0.00		0					
Fisher's		Power	0.212		Power		0.170	P-va.		0.120 0.067	Power Power	0.165 0.019			er-50% er-50%		P-val P-val		0.140 0.653	Power Power				r-50% r-50%				0.698 0.500				

 \times At lesst one site pair p value < 0.100 in opposite direction of overal; 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

2 011-7 0.10 0110	424 1 3 1 1 1 8 1			Gigartinaceae Group (P) (a)								Palmaria spp. (A)										Phycodrys riggii (A)									
Site Pair	Mvd	1 N		ge	N	0	SE	cv	D	P	N	С	SE	N	0	SE	cv	D	Þ	N	С	SE	N	0	SE	cv	Ď	P			
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000 1.000 1.000			
Habitat Mea	ns		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0				
Fisher's Stouffer'	5	Power Power			Power					0.732 0.500	Power Power				r-50% r-50%		-val		0.732 0.500	Power Power				r-50% r-50%		-valu		0.732 0.500			
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2	4 6	0.00 5.00 0.00 0.00	0.00 5.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 0.391 2.000 1.000	5 4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000	5 4 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000			
Habita: Mea	ns		1.00	1.00		0.00	0.00					0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		٥				
Fisher's Stouffer'	5	Power			Power Power					0.550 0.325	Power Power				r-50% r-50%		P-val P-val		0.732 0.500	Power Power				r-50% r-50%				0.732 0.500			
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	5 6	0.00 0.00 0.00 0.42 0.00	0.00 0.00 0.00 0.42 0.00	4 3 6	2.00 0.00 0.00 0.00 0.00	1.22 0.00 0.00 0.00	_ _ _	0	0.178 1.000 1.000 0.363	3 4 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	2.00 0.00 0.00 0.00 0.00	1.46 0.00 0.00 0.00	- - - -	0000	0.198 1.000 1.000 1.000	3 4 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6 1	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0000	1.000 1.000 1.000 1.000			
Habitat Mea	ıns		0.08	0.08		0.40	0.30		-			0.00	0.00		0.40	0.38		-			0.00	0.00		0.00	0.00		0				
Fisher's Stouffer'		Power Power	0.000		Power Power					0.432	Power Power	0.002 0.001			r-50% r-50%		P-val P-val		0.361 0.428	Power				r-50% r-50%				0.698			

(a) Chondrue, Iridaea, Mastocarpus and Rhodoglossum.

x At lesst one site pair p-value < 0.100 in opposite direction of 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. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed May 1990. (Continued.)

					Forphy	yra sp. (A)						Rho	lymen	ia pertus	a (A)					7	okiđad	iendro	n kurile	nsis (A))		
4t Pair	Mvd	N 1	С	SE	N	0	SE	CV	D	P	N	C	SE	N	0	SE	cv	D	P	N	c	9E	N	0	SE	CV	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522			0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0 – 0 – 0 –	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 00.0 00.0 00.0	5 6 6 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-		1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		o	
Fisher's Stouffer'	5	Power Power			Power Power			P-va. P-va.		0.732 0.500	Power Power				r-50% r-50%		P-val P-val		0.732 0.500	Power Power			Power Power			P-va P-va		0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2		0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0 - 0 - 0 -	0	1.000 1.000 1.000 1.000	5 4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -		1.000 1.000 1.000 1.000 1.000	5 4 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000 1.000
Habitat Mea	ıns		0.00	0.00		0.00	0.0	0	O			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	ş	Power Power			Power			P-va P-va		0.732 0.500	Power Power				r-50% r-50%		P-val P-val		0.732 0.500	Power Power			Power Power					0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3	3 4 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0	0 -		1.000 1.000 1.000 1.000	3 4 5 6 5	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	- - -		1.000 1.000 1.000 1.000	3 4 5 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00	- - - -	0	1.000 1.000 1.000 1.000
Habitat Mea	ins		0.00	0,00		0.00	0.0	0	0			0.00	0,00		0.00	0.00		n			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	s	Power Power				±-50% ±-50%				0.698 0.500	Power Power				r-50% r-50%		P-val P-val		0.698 0.500	Power Power				-50% -50%		P-va P-va		0.698 0.500

x At least one site pair p-value < 0.180 in opposite direction of overall tests.
y Direction of difference between habital means is different than direction of overall tests.
z Only one site pair.

Table C 5.454. Page 3. December 15, 1994

		1	forpholog	ical G	roup:	Coars	Filame	ntous	Red	ls		Āz	ticul:	te C	coralline	Algae (A)					Crypt	osiph	onia wood	iii (A)			
Site Pair	دىن		С	AR	N	0	E	cv	Ď	P	N	С	SE	N	o	SE	cv	D	P	N	С	9e	N	0	SE	ĊΛ	D	P
825C/1424 53C/453 01C/601 98C/598 522C/1522	1 1 1 1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) –) –	0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	00000	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000 1.000 1.000
abitat Mean	18		0.00	0.00		0.00	0.00)	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		٥	
Fisher's Stouffer's		Power Power			Power			P-val P-val		0.732 0.500	Power Power				er-50% er-50%		P-val P-val		0.732 0.500	Power Power			Power Power	:-50% :-50%				0.732 0.500
825C/1424 53C/453 601C/601 98C/598 522C/1522	2	5 4 6 6	0.00 5.63 0.00 0.00	0.00 3.29 0.00 0.00	6 5 6	0.00 10.00 0.00 0.00 0.00	0.00 9.01 0.00 0.00	-) -	0	1.000 0.910 1.000 1.000	5 4 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000	5 4 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	0	1.000 1.000 1.000 1.000 1.000
abitat Mean	ns		1.12	0.66		2.00	1.80	}	-			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power	0.000		Power					0.714 0.476	Power Power				er-50% er-50%		P-val P-val		0.732 0.500	Power Power				r-50% r-50%				0.732 0.500
1825C/1424 153C/453 501C/601 598C/598 L522C/1522	3	3 4 5 6 5	26.67 3.13 3.50 0.42 0.00	26.67 3.13 2.45 0.42 0.00	4 3 6	4.50 0.00 0.00 0.00 7.50	1.84 0.00 0.00 0.00) -	+	0.503 0.391 0.193 0.363	3 4 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000 1.000	3 4 5 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000
Habitat Mean	າຮ		6.74	6.54		2.40	0.45	5				0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	5	Power Power			Power Power			P-val P-val		0.079 0.056	Power Power				er-50% er-50%		?-val ?-val		0.698 0.500	Power Power				c-50% c-50%				0.698 0.500

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

Table C-5,454. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed May 1990. (Continued.)

				Endo	cladi	a muricat	a (P)						Gloi	opel	tis furcat	ta (A)					N	eorhod	omela,	/Rhodome	la (P) (a)		
Site Pair	Mvd	N	С	82	N	0	SE	CV	D	P	N	c	9E	N	0	SE	CV	D	P	N	c	SE	N	0	Se	ÇV	מ	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	0 0 0 0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1,000 1.000 1,000 1.000 1,000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	0	1.000 1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0,00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	5	Power Power				r-50% r-50%		P-val P-val		0.732 0.500	Power Power				r-50% r-50%		-valu		0.732 0.500	Power Power				r-50% r-50%				0.732
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2	5 4 6 6	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	1.000 1.000 1.000 1.000	5 4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0	1.000 1.000 1.000 1.000	5 4 6 6	0.00 5.63 0.00 0.00	0.00 3.29 0.00 0.00	6 5 6	0.00 10.00 0.00 0.00	0,00 9.01 0.00 0.00	-	0	1.000 0.910 1.000 1.000
Habitat Mea	ans		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			1.12	0.66		2.00	1.80		-	
Fisher's Stouffer'	's	Power Power				c-50% c-50%		P-val P-val		0.732 0.500	Power Power				er-50% er-50%		-valu		0.732 0.500	Power Power	0.000			r-50% r-50%		P-val ⊇-val		0.714 0.476
4825C/1424 453C/453 601C/601 598C/598 1522C/1522		3 4 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	3 4 5 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	3 4 5 6 5	26.67 3.13 3.50 0.42 0.00	26.67 3.13 2.45 0.42 0.00	3	4.00 0.00 0.00 0.00 7.50	1.70 0.00 0.00 0.00	-		0.480 0.391 0.193 0.363
Habitat Mea	ans		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			6.74	6.54		2.30	0.42		+	
Fisher's Stouffer'	' s	Power Power				r-50% r-50%		P-val P-val		0.698 0.500	Power Power				er-50% er-50%		-valı -valı		0.698 0.500	Power Power				r-50% r-50%		P-val P-val		0.076 0.055

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

Table C-5.454, Page 5, December 15, 1994

z Only one site	Dell'																										
			Odor	nthali	a floccos	a (P)						Ptilo	ta/Ne	optilota	(P) (b)					Morg	holog	ical (roup: 8	accate	Red	18	
Site Pair	Mvd N	С	SE	N	0	SE	ÇV	Þ	P	N	С	SE	N	0	SŁ	CV	D	P	n	С	SE	N	O	SE	C	D V	Þ
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 6 1 6 1 6 1 6 1 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 1 0 1	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00)))	- 0 - 0	1.000 1.000 1.000 1.000 1.000
Habitat Mea	ns	0.00	0.00		0.00	0.00	,	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	}	0	
Fisher's Stouffer'	Powers Power			Power			P-val P-val		0.732 0.500	Power Power				r-50% r-50%		P-valu P-valu		0.732 0.500	Power Power				-50% -50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 5 2 4 2 6 2 6 2 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- -	0 1	1.000 1.000 1.000 1.000	5 4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000 1.000	5 4 6 6 6	0.00 0.63 0.00 0.00	0.00 0.63 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00))	- + - 0 - 0	
Habitat Mea	ns	0.00	0.00		0.00	0.00)	0			0.00	0.00		0.00	0.00		O			0.12	0.12		0.00	0.00)	+	
Fisher's Stouffer'	Powe:			Power			P-val P-val		0.732 0.500	Power Power				r-50% r-50%		P-valu P-valu		0.732 0.500	Power Power			Power Power	c-50% c-50%				0.550 0.325
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 4 3 5 3 6 3 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00) –) –	0 1	1.000	3 4 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	0.50 0.00 0.00 0.00 0.00	0.50 0.00 0.00 0.00	- - -	0	0.374 1.000 1.000 1.000	3 4 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	3.50 0.00 0.00 0.00 0.00	2.92 0.00 0.00 0.00	0	- 0	0.226 1.000 1.000
Habitat Mea	ins	0.00	0.00	ı	0.00	0.00)	0			0.00	0.00		0.10	0.13		-			0.00	0.00		0.70	0.72	2	-	
Fisher's Scouffer'	Powe			Power Power	-50% -50%		P-val P-val		0.698 0.500	Power Power				er-50% er-50%		P-valu P-valu		0.483 0.450	Power Power	0.000			r-50% r-50%				0.385 0.432

⁽b) Genera not separated.

x At least one site pair p-value < 0.300 in opposite direction of overall tests. y direction of difference between habits; means is different than direction of overal) tests. $_{\rm C}$ Only one site pair.

Table C-5.454. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed May 1990. (Continued.)

	на1	losaccion gland:	forme (A)		Halosaccion spp.	(A)	Morphological Group: Fine Filamentous Reds
Site Pair Mvd N	C 5E	n o	SE CV D P	N C	se n o	SE CV D P	n c se n o se cv d p
4825C/1424 1 6 453C/453 1 6 601C/601 1 6 598C/598 1 6 1522C/1522 1 6	0.00 0 0.00 0 0.00 0	.00 5 0.00 .00 6 0.00 .00 6 0.00 .00 6 0.00 .00 5 0.00	0.00 - o 1.000 0.00 - o 1.000 0.00 - o 1.000	6 0.00 6 0.00 6 0.00 6 0.00 6 0.00	0.00 5 0.00 0.00 6 0.00 0.00 6 0.00 0.00 6 0.00 0.00 5 0.00	0.00 - 0 1.000 0.00 - 0 1.000 0.00 - 0 1.000 0.00 - 0 1.000 0.00 - 0 1.000	6 9.17 9.17 6 0.00 0.00 - 0.365 6 0.00 0.00 6 0.00 0.00 - 0.1.000 6 0.00 0.00 6 0.00 0.00 - 0.1.000
Habitat Means	0.00 0	.00 0.00	0.00	0.00	0.00 0.00	0.00 0	1.84 1.84 0.00 0.00 +
Fisher's Powe: Stouffer's Powe:		Power-50% Power-50%	P-value 0.732 P-value 0.500	Power Power	Power-50% Power-50%	P-value 0.732 P-value 0.500	
4825C/1424 2 5 453C/453 2 4 601C/601 2 6 598C/598 2 6 1522C/1522 2 6	0.63 0 0.00 0 0.00 0	.00 5 0.00 .63 6 0.00 .00 5 0.00 .00 6 0.00 .00 4 0.00	0.00 - · 0.391 0.00 - o 1.000 0.00 - o 1.000	5 0.00 4 0.00 6 0.00 6 0.00 6 0.00	0.00 5 0.00 0.00 6 0.00 0.00 5 0.00 0.00 6 0.00 0.00 4 0.00	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4 0.00 0.00 6 0.00 0.00 - 0 1.000 6 0.00 0.00 5 0.00 0.00 - 0 1.000 6 0.00 0.00 6 0.00 0.00 - 0 1.000
Habitat Means	0.12 0	.12 0.00	0.00 +	0.00	0.00 0.00	0.00 0	0.00 0.00 0.00 0
Fisher's Powe: Stouffer's Powe:		Power-50% Power-50%	P-value 0.550 P-value 0.325	Power	Power-50% Power-50%	P-value 0.732 P-value 0.500	
4825C/1424 3 3 453C/453 3 4 601C/601 3 5 598C/598 3 6 1522C/1522 3 5	0.00 0 0.00 0 0.00 0	.00 5 3.50 .00 4 0.00 .00 3 0.00 .00 6 0.00 .00 1 0.00	0.00 - o 1.000 0.00 - o 1.000 0.00 - o 1.000	3 0.00 4 0.00 5 0.00 6 0.00 5 0.00	0.00 5 0.00 0.00 4 0.00 0.00 3 0.00 0.00 6 0.00 0.00 1 0.00	0.00 - 0 1.000 0.00 - 0 1.000 0.00 - 0 1.000 0.00 - 0 1.000	4 0.00 0.00 4 0.00 0.00 - 0 1.000 5 0.00 0.00 3 0.00 0.00 - 0 1.000 6 0.00 0.00 6 0.00 0.00 - 0 1.000
Habitat Means	0.00 0	.00 0.70	0.72 -	0.00	0.00 0.00	0.00 0	0.00 0.00 0.90 0.97 -
Fisher's Power Stouffer's Power		Power-50% Power-50%	P-value 0.385 P-value 0.432	Power Power	Power-50% Power-50%	P-value 0.698 P-value 0.500	

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

Table 3-5.454. Page 7. December 15, 1964

			Poly	ysipho	nia/	Pterosipho	nia (A	(a)				Morp	hologi	cal (Group: Ci	rustose	Reds					Crusto	se Co	ralline A	lgae (P))		
Site Pair	Mvd	N	С	SE	N	0	SE	cv	D	P	N	С	SE	N	0	SE	ÇV	D	P	N	С	SE	n	0	SE	СV	Đ	P
1825C/1424 153C/453 501C/601 598C/598 1522C/1522	1 1 1	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 00.0 00.0 00.0	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00) -) -	00000	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000
Mabitat Mea	ns		0.00	0.00		0.00	0.0)	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'		Power Power				er-50% er-50%		P-va P-va		0.732 0.500	Power Power				r-50% r-50%		P-val P-val		0.732 0.500	Power Power				r-50% r-50%		P-valu P-valu		
825C/1424 153C/453 101C/601 198C/598 1522C/1522	2	4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5	0.00 0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0) -) -	0	1.000 1.000 1.000 1.000	5 4 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	1.00 0.00 0.00 0.00 0.00	1.00 0.00 0.00 0.00 0.00	- - - -	0	0.374 1.000 1.000 1.000	5 4 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Mabitat Mea	ns		0.00	0.00	ı	0.00	0.0	C	0			0.00	0.00		0.20	0.20		-			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'		Power Power				er-50% er-50%		P-val		0.732 0.500	Power Power				r-50% r-50%		P-val P-val		0.542 0.451	Power Power				r-50% r-50%		P-valu P-valu		
1825C/1424 153C/453 501C/601 598C/598 1522C/1522	3	4 5	0.00 0.00 0.00 0.00	0.00 0.00 00.00 00.00	3	4.50 0.00 0.00 0.00 0.00	3.9 0.0 0.0 0.0	0 – 0 – 0 –		0.240 1.000 1.000 1.000	3 4 5 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 4 3 6 1	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	3 4 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1,000 1,000 1,000 1,000
labitat Mea	ns		0.00	0.00		0.90	0.9	7	-			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'		Power Power	0.000			er-50% er-50%				0.395 0.434	Power Power				er-50% er-50%		P-val P-val		0.698 0.500	Power Power				r-50% r-50%		P-valu P-valu		

⁽a) Genera not separated.

x At least one site pair p-value < 0.100 in opposite direction of 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. Algal Percent Cover. Rhodophyta, Prince William Sound. Sheltered Rocky. August 1993. Overstory removed May 1990. (Continued.)

_			Hil	denbra	ındia sp.	(P)						Petr	rocelis (P)												
ite Pair Mvd 1	N	C	SE	N	0	SE	GA I	P	N	С	ŞE	N	0	SE	CV D	P		Γ	C	SE	N	0	SB	cv	D	P
453C/453 1 601C/601 1 598C/598 1 1522C/1522 1	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00	0.00 0.00 0.00		1.000	6 6 6	0.00 0.00 0.00	0.00 0.00 0.00	6	0.00 0.00 0.00	0.00 0.00 0.00	- 0 - 0 - 0		0									
Habitat Means		0.00	0.00		0.00	0.00	0			0.00	0.00		0.00	0.00	0											
	ower ower			Power Power				0.732	Power Power				r-50% r-50%		-value -value			wer			Power-					
4825C/1424 2 453C/453 2 601C/601 2 6598C/598 2 652C/1522 2 6	4 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 5 6	1.00 0.00 0.00 0.00	1.00 0.00 0.00 0.00 0.00	- o - o	0.374 1.000 1.000 1.000	5 4 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0	1.00 1.00 1.00 1.00))									
Habitat Means		0.00	0.00		0.20	0.20	-			0.00	0.00		0.00	0.00	0											
	ower			Power-				0.542 0.450	Power Power				r-50% r-50%		-value -value			wer wer			Power-					
4825C/1424 3 1 453C/453 3 4 601C/601 3 5 596C/598 3 6 1522C/1522 3 5	4 5 6	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		3 4 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4	0.00 0.00 0.00 0.00	0.00 0.00 0.00		1.000)									
Habitat Means		0.00	0.00		0.00	0.00	0			0.00	0.00		0.00	0.00	0											
	ower			Power-				0.698 0.500	Power Power				r-50% r-50%	P	-value -value	0.698		wer wer			Power- Power-					

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

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.

					Bal	anomorph	ıa.							L	ottiidae								,	fytilus				
Site Pair	Mvd	N	С	SE	N	٥	SE		CV	D P	N	С	SE	N	0	Se	ÇV	D	P	N	С	SE	N	0	SE	,	CV D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6 6 6	0.00 0.00 8.33 0.83 17.92	0.00 0.00 2.47 0.83 12.59	6 6	33.50 6.67 3.75 2.92 9.50	18. 3. 2. 1. 5.	96 02 87	-	0.112 0.065 0.102 0.418	6 6 6 6	0.00 0.00 0.00 0.42 0.00	0.00 0.00 0.00 0.42 0.00	6 6	0.50 0.00 0.00 0.00 0.50	0,50 0.00 0.00 0.00 0.50	-	0	0.374 1.000 1.000 0.363 0.374	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.83 0.42 2.50	0.00 0.00 0.83 0.42 2.50	3	- 0 - 0 	1.000 1.000 0.363 0.363 0.374
Habitat Mean	ıs		5.40	3,18		11.28	6.	42		-		0.08	0.08		0.20	0.20		-			0.00	0.00		0.74	0.74	1	-	
Fisher's Stouffer's		Power Power				r-50% r-50%			-valu -valu		Power Power				er-50% er-50%		P-valu P-valu		0.451 0.655	Power Power				ェ-50% ェ-50%				0.227 0.136
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	6	1.50 1.25 9.58 9.58 19.17	1.50 0.72 8.62 4.81 10.30	6 5 6	9.00 6.67 2.50 2.50 5.00	9.4.2. 2.	73 50 58	-	0.576 0.375 0.548 0.162 0.257	5 4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	54666	0.00 0.00 2.50 5.83 7.50	0.00 0.00 1.58 2.30 3.16	6 5 6	0.00 2.50 3.50 4.58 1.25	0.00 1.58 2.18 2.27 1.25	3	- 0 - ·	1.000 0.175 0.775 0.652 0.173
Habitat Mean	ıs		8.24	5.18		5.14	4.	26				0.00	0.00		0.00	0.00		0			3.16	1.42		2.38	1.48	3	+	
Fisher's Stouffer's		Power Power	0.139 0.110			r-50% r-50%	0.426 0.593		-valu -valu		Power Power				er-50% er-50%		P-valu P-valu		0.732 0.500	Power Power	0.083 0.025			r-50% r-50%				0.469 0.561
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	6	0.83 5.00 0.50 0.42 1.50	0.83 5.00 0.50 0.42 1.50	4 3 6	0.00 0.63 0.00 0.00	0. 0. 0.	63	-	0.423 0.557 0.374 0.363	3 4 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	3 4 5 6 5	0.00 0.00 0.00 5.00 3.00	0.00 0.00 0.00 3.16 3.00	4 3 6	0.00 0.00 1.67 3.33 0.00	0.00 0.00 1.67 1.39) 7)	- 0 - 0 - + - +	1.000 1.000 0.423 0.940
Habitat Mean	15		1.64	1.64		0.12	0.	15				0.00	0.00		0.00	0.00		Q			1,60	1.24		1.00	0.78	3	-	
Fisher's Stouffer's		Power Power				r-50% r-50%				0.133	Power Power				er-50% er-50%		P-valu P-valu		0.698 0.500	Power Power	0.006			r-50% r-50%			value value	0.520 y 0.448

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

				1	Nuce1	la lamello	osa							Lit	torinidae								Мо	llusca				
Site Pair	Mvd	n e	С	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	CV I)	P	N	С	92	N	0	SE	CV	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	1.50 0.00 0.00 0.00 0.00	1.00 0.00 0.00 0.00) -) -	0	0.186 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.42 0.00	0.00 0.00 0.00 0.42 0.00	- 0 - 0 - 0		1.000 1.000 1.000 0.363 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000
Habitat Mea	rs		0.00	0.00)	0.30	0.20)	-			0.00	0.00		0.08	0.08	-				0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	ŝ	Power	0.002			er-50% er-50%				0.415	Power Power				er-50% er-50%		-value		0.536 0.240	Power Power			Power Power					0.732
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2	5 4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00) 6) 5) 6	0.00 0.42 0.00 0.00 0.00	0.00 0.42 0.00 0.00	-) -	0	1.000 0.363 1.000 1.000	5 4 6 6	0.00 0.00 0.00 0.00 0.42	0.00 0.00 0.00 0.00 0.42	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0		1.000 1.000 1.000 1.000 0.363	5 4 6 6	0.00 0.63 0.00 0.00	0.00 0.63 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0	1.000 0.391 1.000 1.000
Habitat Mea	ır.s		0.00	0.00)	0.08	0.0	3	-			0.08	0.08		0.00	0.00		+			0.12	0.12		0.00	0.00			
Fisher's Stouffer'	s	Power Power				er-50% er-50%				0.536 0.315	Power Power				er-50% er-50%		-value		0.536 0.425	Power Power			Power Power					0.550 0.325
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3	3 4 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	3 6	0.00 0.00 0.00 0.42 0.00	0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 0.363	3 4 5 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- c		1.000 1.000 1.000 1.000	3 4 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mea	rs		0.00	0.00)	0.08	0.10)	-			0.00	0.00		0.00	0.00	C)			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	5	Power Power				er-50% er-50%				0.477 0.235	Power Power				er-50% er-50%		-value -value		0.698 0.500	Power Power			Power					0.698 0.500

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

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.

				R	ock							Oil	ed Rock							1	Sand				_
Site Pair My	d N	С	SE	N	0	SE	ÇV D	P	N	c i	SE	N	0	SE	CV D	P	N	С	SE	Ŋ	0	SE	CV	p	P
601C/601 1	6 6 6 6	44.58 55.83 70.00 98.75 62.50	16.92 18.58 14.79 0.85 16.81	6 6	59.50 58.33 95.42 96.25 46.50	21.13 15.22 1.87 2.56 17.51	 - +	0.589 0.762 0.090 0.576 0.528	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0 - 0	1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	o 1 o 1	.000 .000 .000 .000
Habitat Means		66.34	13.60		71.20	11.66	-			0.00	0.00		0.00	0.00	0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	Power Power			Power-			P-value P-value		Power Power			Power Power			-value -value		Power Power			Power Power			-valu		
601C/601 2	5 4 6 6	32.00 10.00 67.08 69.17 25.83	16.65 3.23 9.90 10.20 8.77	6 5 6	34.50 66.67 52.00 72.08 24.37	19.05 12.29 21.01 14.94 15.69	+	0.0.0	5 4 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0 - 0	1.000 1.000 1.000	5 4 6 6	0.00 0.00 0.00 10.00 0.00	0.00 0.00 0.00 10.00	6 5 6	0.00 0.00 3.00 0.00	0.00 0.00 3.00 0.00	-	- 0 + 0	.000 .000 .374 .363
Habitat Means		40.82	9,76		49.94	16.60	-			0.00	0.00		0.00	0.00	О			2.00	2.00		0.60	0.60		+	
Fisher's Stouffer's	Power Power			Power-			P-value P-value		Power Power			Power Power			-value -value		Power Power			Power-			-valu -valu		
601C/601 3	5 6	7.50 29.37 22.50 24.58 6.00	5.20 19.19 10.34 15.51 3.76	4 3 6	11.50 96.25 28.33 28.33 15.00	10.89 2.98 28.33 15.41		0.934 0.012 0.928 0.949	3 4 5 6 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	4 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0	1.000 1.000 1.000	3 4 5 6 5	0.00 0.00 0.00 11.67 0.00	0.00 0.00 0.00 11.67 0.00	4 3 6	0.00 0.00 2.50 15.00 0.00	0.00 0.00 2.50 15.00	-	0	.000 .000 .423
Habitat Means		18.00	10.80	;	35.88	14.40	-			0.00	0.00		0.00	0.00	0			2.34	2.34		3.50	4.38		-	
Fisher's Stouffer's	Power Power			Power-			P-value P-value		Power Power			Power Power			-value -value	0.698 0.500	Power Power			Power-		3	-valu -valu		

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

				1	Shell :	Fragment	ts								Water							Zo	stera,	/Phyllosp	adix			
Site Pair Mv	vd N	С	ge		N	0	SE		D V	P	N	c	SE	N	0	SE	ĊΫ	D	P	N	С	SE	N	o	SE	CV	ם ז	P
453C/453 1 601C/601 1 598C/598 1	1 6 1 6 1 6 1 6	0.00 0.00 0.00 0.00	0.	.00	5 6 6 6 5	0.00 0.00 0.00 0.00	0.0 0.0 0.0	0	- 0 - 0 - 0 - 0	1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0	1.000 1.000 1.000 1.000	6 6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000
Habitat Means		0.00	0.	.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00		0			0.00	0.00	+	0.00	0.00		0	
Fisher's Stouffer's	Powe Powe				Power-				value value	0.732 0.500	Power Power				er-50% er-50%		P-val P-val		0.732 0.500	Power Power				r-50% r-50%				0.732 0.500
453C/453 2 601C/601 2 598C/598 2	2 5 2 4 2 6 2 6 2 6	0.00 0.00 0.00 0.00	0.	.00	5 6 5 6 4	0.00 0.00 0.00 0.00	0.0 0.0 0.0	0	- 0 - 0 - 0 - 0	1.000 1.000 1.000	5 4 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 5 6	0.00 0.00 0.00 0.00 1.88	0.00 0.00 0.00 0.00		0	1.000 1.000 1.000 1.000 0.391	5 4 6 6	0.00 0.00 0.00 0.00 0.00	0.00	6 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000
Habitat Means		0.00	0.	.00		0.00	0.0	0	0			0.00	0.00		0.38	0.38		-			0.00	0.00)	0.00	0.00		0	
Fisher's Stouffer's	Powe Powe				Power-				/alue /alue	0.732 0.500	Power Power				er-50% er-50%		P-val P-val		0.550 0.429	Power Power				r-50% r-50%				0.732 0.500
453C/453 3 601C/601 3 598C/598 3	3 3 3 4 3 5 3 6 3 5	0.00 0.00 0.00 0.00	0.0	.00	5 4 3 6 1	0.00 0.00 0.00 0.00	0.0 0.0 0.0	0	- 0 - 0 - 0 - 0	1.000	3 4 5 6 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-		1.000 1.000 1.000 1.000	3 4 5 6 5	0.00 0.00 0.00 0.00	0.00	3 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Means		0.00	0.	.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00		0			0.00	0.00	•	0.00	0.00		0	
Fisher's Stouffer's	Powe Powe				Power-				value value	0.698 0.500	Power Power				er-50% er-50%		P-val P-val		0.698 0.500	Power Power				r-50% r-50%				0.698 0.500

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

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	Substr	ite													_
Site Pair	Mvd			SE	N	0	SE	cv	D	P	N	¢	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	•	CV D	P	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522		6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 6 6	44.58 55.83 70.00 98.75 62.50	16.92 18.58 14.79 0.85 16.81	6 6	59.50 58.33 95.42 96.25 46.50	21.13 15.22 1.87 2.56 17.51	-	- +	0.589 0.762 0.090 0.576 0.528										
Habitat Mea	ns	Douge	0.00	0.00	Power	0.00 50%	0.00		o	0.732	Power	0.047		Powe	71.20 r-50%	11.66	P-val		0.294	Power			Power Power				value value		
Fisher's Stouffer'	s	Power Power			Power					0.500	Power	0.035			r-50%	0.931			0.475	Power			rower	-304		-			
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2		0.00 0.00 0.00 10.00 0.00	0.00 0.00 0.00 10.00 0.00	6 5 6	0.00 0.00 3.00 0.00 1.88	0.00 0.00 3.00 0.00 1.88	-	o - +	1.000 1.000 0.374 0.363 0.391	5 4 6 6	32.00 10.00 67.08 79,17 25.83	16.65 3.23 9.90 5.23 8.77	6 5 6 4	34.50 66.67 55.00 72.08 26.25	19.05 12.29 21.68 14.94 15.63	-	++	0.848 0.007 0.625 0.734 0.978										
Habitat Mea	ıns		2.00	2.00		0.98	0.98	:	-			42.82	8.76		50.92	16.72			0.000	D			Powe:	-50%		D _	value		
Fisher's Stouffer'	s	Power			Power			P-va P-va	lue lue	0.459 v 0.626	Power Power	0.040			r-50% r-50%		P-va	lue	0.099	Power Power		•	Power				value		
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3	4 5	0.00 0.00 0.00 11.67 0.00	0.00 0.00 0.00 11.67 0.00	4 3 6	0.00 0.00 2.50 15.00 0.00	0.00 0.00 2.50 15.00) -) -	-	1.000 1.000 0.423 0.875	3 4 5 6 5	7.50 29.37 22.50 36.25 6.00	5.20 19.19 10.34 16.54 3.76	4 3 6 1	11.50 96.25 30.83 43.33 15.00	10.89 2.98 30.83 17.10	- - -	-	0.934 0.012 0.985 0.799										
Habitat Mea		Power		2.34	Powe:	7.50 r-50% Enw	4.38	P-va	lue	0.480 0.377	Power Power	20,34		Powe	39.38 er-50% er-50%		P-va	lue	0.058 0.057	Power			Powe:	c-50% c-50%			value value		

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

Table C-5.457. Algal Percent Cover. Totals and Shasmal Groups. Prince William Sound. Sheltered Rocks. 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.

				Algai	Diver	sity In	des (a)						Alga	1 Ta:	xa Richn	ess (b)							Tot	al Algae	<u> </u>			
Site Pair	Mvč	N	С	ge	N	0	3E	CV	D	P	N	c	SE	N	0	SE	CV 1	D	P	N	С	SE	N	0	SE	ĊΛ	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1 1	6 6 6 6	0.00 0.04 0.01 0.00 0.00	0.00 0.04 0.01 0.00 0.00	5 6 6	0.06 0.00 0.00 0.00 0.00	0.06 0.00 0.00 0.00	- - -	+	0.374 0.363 0.363 1.000	6 6 6 6	0.83 0.83 0.67 0.00 0.67	0.17 0.31 0.33 0.00 0.21	5 6 6	0.60 0.80 0.17 0.17 0.67	0.40 0.20 0.17 0.17 0.21	-	+	0.579 0.933 0.209 0.363 1.000	6 6 6 6	37.50 50.00 19.17 0.00 50.83	17.08 19.99 13.88 0.00 18.20	5 6 6	4.50 25.50 16.67 0.42 47.50	3.39 15.78 16.67 0.42 17.22		÷ -	0.097 0.416 0.876 0.363 0.925
Habitat Mea	ns		0.01	0.01		0.01	0.01		+			0.60	0.20		0.48	0.23		-		_	31.50		D			D		0.236
Fisher's Stouffer'	q	Power Power			Power-			P-val P-val		0.440 y 0.285	Power Power	0.187 0.126			er-50% er-50%		P-valu P-valu			Power Power	0.19			r-50% r-50%		P-va P-va		0.495
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2	6	0.03 0.00 0.00 0.00	0.03 0.00 0.00 0.00	5 5 6	0.07 0.06 0.00 0.00	0.06 0.06 0.00	-	- 00+	0.531 0.374 1.000 1.000	6 5 6 6	1.00 0.80 0.50 0.67 1.00	0.26 0.20 0.22 0.21 0.26	5 5 6	1.20 0.60 0.20 0.50 0.00	0.37 0.40 0.20 0.22	-	+	0.662 0.667 0.353 0.600	6 5 6 6	52.08 53.00 18.33 8.33 60.83	19.56 16.83 12.77 5.46 18.76	5 5 6	45.00 6.00 16.50 29.17 0.00	18.69 4.00 16.50 18.09	-	+	0.720 0.036 0.800 0.407
Habitat Mea		Ü	0.02	0.02	_	0.03	0.03		_			0.79	0.23		0,50	0.30		+			38.50	14.70		19.34	14.33		+	
Fisher's Stouffer'		Power	0.003	0.02	Power	-50%				0.361	Power Power	0.247 0.211			er-50% er-50%		P-valu P-valu		0.352 0.210	Power Power	0.12 0.09			r-50% r-50%		P-va P-va		0.136 0.278
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	3 3 5 4 6	0.18 0.15 0.06 0.15	0.07 0.07 0.06 0.09 0.02	4 4 3 5	0.24 0.10 0.07 0.01 0.64	0.08 0.10 0.07 0.01	- - -	-	0.634 0.726 0.866 0.242	3 5 4 6	2.00 2.00 1.00 1.75 1.17	0.00 0.58 0.32 0.75 0.17	4 3 5	2.50 1.00 1.33 1.00 5.00	0.50 0.71 0.33 0.32	-	+	0.391 0.348 0.519 0.351	3 5 4 6	66.67 90.00 50.00 36.88 55.00	27.32 8.78 16.97 17.84 13.57	3 5	71.25 31.87 79.17 73.50 47.50	22.19 22.39 20.83 19.23		-	0.999 0.089 0.281 0.232
Habitat Mea	ins		0.11	0.06		0.21	0.07		-			1.58	0.36		2.17	0.46		1			59.72	16.90		60.68	21.15		•	
Fisher's Stouffer'		Power Power	0.116 0.113		Power			P-va P-va		0.419 y 0.156	Power Power	0.175 0.106			er-50% er-50%		P-valu P-valu		0.432 y 0.165	Power Power	0.08			r-50%		P-va F-va		0.286* 0.389

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

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

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				To	tal I	nverteb:	atis								₽ ack							Pere	nnials (P)			
ite Pair	Mvd		С	SE	N	0	9E	CA	D	P	N	С	SE	N	ō	BE	GA D	P	N	c	38	N	U	65	δ	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522		6 6 6 6	1.25 0.00 7.50 5.00 5.42	0.85 0.00 4.43 3.16 3.44	5 6 6	35.50 1.50 2.08 9.58 5.00	17.02 1.00 0.77 5.38 4.03	-	+	0.084 0.186 0.381 0.399 0.987	6 6 6 6	61.25 50.00 73.33 95.00 43.75	17.40 19.99 13.18 3.16 15.26	5 6 6	60.00 73.00 81.25 90.00 47.50	17.08 15.60 16.26 5.77 17.89	 - +	0.747	6 6 6 6	37.50 50.00 19.17 0.00 50.83	17.08 19.99 13.88 0.00 18.20	5 6 6	4.50 25.50 16.67 0.42 47.50	3,39 15,78 16,67 0,42 17,22	- - - -	-	0.097 0.416 0.876 0.363 0.925
Habitat Mea	ລຣ		3.84	2.38		10.74 r-50%	5.64		-	0.097	Power	64.68 0.164	13.82	Powe	70.36 r-50%		P-value		Power	31.50 0.196			18.92 r-50%	0.284	P-va.	ue	0.236
Fisher's Stouffer'	s	Power Power				r-50%		P-val		0.082	Power	0.153		Powe	r-50%		P-value		Power	0,182			r-50%		P-va.		0.495
1825C/1424 153C/453 501C/601 598C/598 1522C/1522	2 2 2 2 2	5 6 6	9.17 12.50 15.83 16.25 23.75	9.17 8.44 12.99 10.36 13.98	5 5 6	19.00 37.50 5.50 15.83 20.00	8.46 14.90 1.22 6.08	- -	-	0.251 0.139 0.832 0.897	6 5 6 6	38.75 34.50 65.83 75.42 15.42	17.15 12.28 15.94 11.72 5.72	5 5 6	36.00 56.50 78.00 55.00 80.00	14.11 14.50 16.42 13.62		0.291	6 5 6 6	50.00 53.00 17.92 8.33 52.50	18.96 16.83 12.88 5.46 17.77	5 5 6	45.00 4.00 16.50 29.17 0.00	18.69 2.45 16.50 18.09) -) -	+	0.027 0.872 0.407
abitat Mea		0	15.52	11.00		19,56	7.67	,	_			45.98	12.56		61.10	14,65				36.34	14.40		18.94	13.95	5	+	
Fisher's Stouffer'		Power	0,242			r-50% r-50%				0.163	Power Power				r-50% r-50%		P-value P-value	0.515 0.362	Power Power	0.135			r-50% r-50%		P-val P-val		0.124
1825C/1424 153C/453 501C/601 598C/598 1522C/1522	3 3 3 3	3 3 5 4 6	0.00 0.00 5.50 3.75 2.08	0.00 0.00 4.29 3.75 1.36	4 3 5	0.00 11.25 0.00 3.00 0.00	0.00 6.83 0.00 2.42	- } -	_	1.000 0.116 0.146 0.970	3 5 4 6	13.33 10.00 44.50 40.63 34.58	7.95 8.78 13.82 22.14 14.10	4 3 5 1	28.75 56.88 0.00 23.50 52.50	22.19 22.60 0.00 16.82)	0.152	3 5 4 6	42.50 70.83 50.00 32.50 55.00	22,22 27,93 16,97 14,51 13,57	4 3 5	65.63 26.88 76.67 73.50 35.00	21.05 22.90 23.33 19.23) - 3 - 3 -	-	0.552 0.209 0.317 0.178
Habitat Mea	ırs		2.28	1.90		2.86	2.30)	+			28.60	13.36		32.34	15.40) +			50.16		_					0 104
Fisher's Stouffer'		Some.	0.008 0.001			r-50% r-50%		P-val P-val		0.416 y 0.684	Power Power				±-50% r-50%		P-value P-value		Power	0.075			≃-50% r-50%	0.554	P-val P-val		0.184

x At least one site pair p-value < 0.100 in opposite direction of overall tests.</p>
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 Rocky, August 1993. Overstory removed July 1990. (Continued.)

					Annu	als (A)								Ephei	merals (A	E)											
Site Pair	Mvć	N N	С	SE	N	0	SE	CV	D	P	N	c	SE	N	0	SE	CV D	P	N	c	SE	N	0	ge	ÇV	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00) -) -	0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0	1.000 1.000 1.000 1.000									
Habitat Mea	ins		0.00	0.00		0.00	0.00)	0			0.00	0.00		0.00	0.00	0										
Fisher's Stouffer'	S	Power			Power Power					0.732 0.500	Power Power				er-50% er-50%		P-value P-value		Power Power			Power Power			P-val P-val		
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2	6 6 6	2.08 0.00 0.42 0.00 8.33	2.08 0.00 0.42 0.00 8.33	5 5 6	0.00 2.00 0.00 0.00	0.00 2.00 0.00 0.00) -) -	+	0.363 0.374 0.363 1.000	6 5 6 6	2.08 0.00 0.42 0.00 0.00	2.08 0.00 0.42 0.00 0.00	5 5 6	0.00 2.00 0.00 0.00 0.00	0.00 2.00 0.00 0.00	 - + ~ 0	0.374									
Habitat Mea	ıns		2.16	2.16		0.40	0.5)	+			0.50	0.50		0.40	0.50	+										
Fisher's Stouffer'	' ន	Power Power			Power Power					0.375 0.555	Power Power				er-50% er-50%		P-value P-value		Power Power			Power			P-val P-val		
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3	3 5 4 6	24.17 19.17 0.00 4.38 0.00	21.67 19.17 0.00 3.59 0.00	4 3 5	5.63 5.00 2.50 0.00 12.50	2.7° 5.0° 2.5° 0.0°) -) -		0.392 0.563 0.423 0.235	3 5 4 6	24.17 0.00 0.00 4.38 0.00	21.67 0.00 0.00 3.59 0.00	4 3 5	0.00 4.37 2.50 0.00 0.00	0.00 4.37 2.50 0.00		0.253 0.391 0.423 0.235									
Habitat Mea	ans		9.56	8.90		5.12	2.5	7	+			5.72	5.06		1.38	1.72	+										
Fisher's	٠,	Power	0.057 n n68		Power		0.091 0.175			0.229 0.118	Power Power	0.020 0.007			er-50% er-50%	0.036 0.041	P-value P-value		Power Power			Power Power					

x At least one site pair p-value < 0.100 in opposite direction of oversil tests.</p>
y Direction of difference between mobilest means is different than direction of oversil tests.
2 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											Morpi	hologi	cal (Group: B	laded Gr	eens					Bla	đeđ G	reens (AE) (a)			
Site Pair	Mvd	N	С	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	ÇV	Þ	Þ	N	С	SE	N	0	SE	ÇV	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) -) -	o	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	66666	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000
Habitat Mear	ns		0.00	0.00		0.00	0.00)	Q			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	s	Power Power			Power-			P-val P-val		0.732 0.500	Power Power				r-50% r-50%		P-val P-val		0.732 0.500	Power Power				r-50% r-50%		-val		0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2 2	6	2.08 0.00 0.42 0.00 8.33	2.08 0.00 0.42 0.00 8.33	5 5 6	0.00 2.00 0.00 0.00 0.00	0.00 2.00 0.00 0.00) -) -) -		0.363 0.374 0.363 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -		1.000 1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	0	1.000 1.000 1.000 1.000
Habitat Mean	ns		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 Stouffer's	5	Power Power			Power-			P-val P-val		0.375 0.555	Power Power				er-50% er-50%		P-val		0.698 0.500	Power Power				r-50% r-50%				0.698 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	3 5 4 6	24.17 0.00 0.00 4.38 0.00	21.67 0.00 0.00 3.59 0.00	4 3 5	0.00 4.37 2.50 0.00 2.50	0.00 4.33 2.50 0.00	7 -) -	- - +	0.253 0.391 0.423 0.235	3 3 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		0	1.000 1.000 1.000 1.000	3 3 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mean	ns		5.72	5.06		1.88	1.72	?	+			0.00	0.00		0.00	ი.იი		O			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	5	Power Power	0.020 0.007		Power-			P-val P-val		0.315 0.327	Power Power				er-50% er-50%		P-val P-val		0.698 0.500	Power Power				r-50% r-50%				0.698 0.500

(a) Kornmannia, Monostroma, Diva and Ulvaria.
x At least one site pair p-walue < 0.100 in apposite direction of overall tests.</p>
y bisection of difference herween habitar means is different than direction of overall tests.
2 Only one site pair.

Table C-5.458. Fage 1. December 15, 1994

		1	Morpholog	gical G	roup:	Fine Fi	lament	ous G	reer	1.0			Ac	rosig	phonia sp.	(A)					Çħ:	aetomor	pha/E	Rhizocloni	Lum (A)	(a)		
Site Pair	Mvc	1 N	С	SE	N	0	SE	ÇV	Đ	P	N	С	SE	N	0	SE	СV	D	P	N	С	SE	N	0	SE	cv	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) -) -) -	0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000
Habitat Mear	ns		0.00	0.00		0.00	0.0)	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	s	Power Power			Power Power			P-va P-va		0.732 0.500	Power Power				er-50% er-50%		P-valv P-val:		0.732 0.500	Power Power				r-50% r-50%		P-va P-va		0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2	5 6	2.08 0.00 0.42 0.00 8.33	2.08 0.00 0.42 0.00 8.33	5 5 6	0.00 2.00 0.00 0.00	0.00 2.00 0.00 0.00) -) -) -	-	0.363 0.374 0.363 1.000	6 5 6 6	0.00 0.00 0.00 0.00 8.33	0.00 0.00 0.00 0.00 8.33	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0000	1.000 1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000 1.000
Habitat Meas	กร		2.16	2.16		0.40	0.5)	-			1.66	1.66		0.00	0.00		Ó			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	s	Power Power			Power Power			P-va P-va		0.375 0.555	Power Power				er-50% er-50%		P-val: P-val:		0.698 y 0.500	Power Power				r-50% r-50%				0.698 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3	3 5 4 6	24.17 0.00 0.00 4.38 0.00	21.67 0.00 0.00 3.59 0.00	3 5	0.00 4.37 2.50 0.00 2.50	0.00 4.3 2.5 0.0	7 – 0 –	-	0.253 0.391 0.423 0.235	3 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00 2.50	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	3 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	0	1.000 1.000 1.000 1.000
Habitat Mear	ns		5.72	5.06		1.88	1.7	2	+			0.00	0.00		0.50	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's	s	Power Power	0.020 0.006		Power Power					0.315 0.327	Power Power				er-50% er-50%		P-val: P-val:		0.698 y 0.500	Power Power				r-50% r-50%		P-va P-va		0.698 0.500

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

Table C-5.458, Algal Percent Cover, Chlorophyta, Prince William Sound, Sheltered Rocky, August 1993, Overstory removed July 1990, (Continued.)

			Cl	dophor	ap.	(AE)						U	loth	rix sp. ()	LE)	_					บ	rospo	ra sp. ()	Œ)			
Site Pair Mvd N	С	SI	B	N	0	SE	CV	D	P	N	С	SE	N	0	SE	CA	D	P	N	С	SE	N	0	SE	C	V D	P
4825C/1424 1 6 453C/453 1 6 601C/601 1 6 598C/598 1 6 1522C/1522 1 6	0.00 0.00 0.00 0.00		0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		0	1.000 1.000 1.000 2.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	5 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		- 0 - 0 - 0	1.000 1.000 1.000 1.000 1.000
Habitat Means	0.00) (0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Pisher's Power Stouffer's Power				Power-5 Power-5					0.732 0.500	Power Power				r-50% r-50%		?-valu ?-valu		0.732 0.500	Power Power			bower				alue alue	0.732 0.500
4825C/1424 2 6 453C/453 2 5 601C/601 2 6 598C/598 2 6 1522C/1522 2 6	2.08 0.00 0.42 0.00		2.08 0.00 0.42 0.00	5 5 6	0.00 2.00 0.00 0.00 0.00	0.00 2.00 0.00 0.00	-	+	0.363 0.374 0.363 1.000	6 5 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	5 5 6 1	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00		- 0 - 0 - 0	1.000 1.000 1.000 1.000
Habitat Means	0.50	0	3.50		0.40	0.50		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		0	
Fisher's Power Stouffer's Power				Power-5 Power-5					0.375 0.555	Power Power				r-50% r-50%		e-valu		0.698 0.500	Power Power			Power Power					0.698 0.500
4825C/1424 3 3 453C/453 3 3 601C/601 3 5 598C/598 3 4 1522C/1522 3 6	24.17 0.00 0.00 4.38 0.00	3 3	2.67 0.00 0.00 3.59 0.00	4 3 5	0.00 4.37 2.50 0.00 0.00	0.00 4.37 2.50 0.00	-	-	0.253 0.391 0.423 0.235	3 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	4 3 5 1	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	3 3 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00		- 0 - 0 - 0	1.000 1.000 1.000 1.000
Habitat Means	5.72	2 5	5.06		1.38	1.72		+			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Power		021		Power-5					0.315	Power Power				r-50% r-50%		e-valu e-valu		0.698	Power Power			Power Power					0.698 0.500

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

Table C 5.458, Page 3, December 15, 1

		Мо	rphologic	al Gr	oup:	Tubular a	ind Sa	ccat	e Gre	ens		Bl	idingi	a/En	teromorphe	(AE) (a)									
Site Pair My	vd	N	С	SE	N	0	SE	C	V D	P	N	c	SE	Ŋ	0	SE	cv	D	P	SE	N	0	SE	CV	D	P
453C/453 1 601C/601 1 598C/598 1	1 1 1 1	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0 0 0	00000		6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000 1.000							
Habitat Means			0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00		0								
Fisher's Stouffer's		ower Power				r-50% r-50%				0.732 0.500	Power Power				er-50% er-50%				0.732	 	Power			P-val: P-val:		
453C/453 2 601C/601 2 598C/598 2	2 2 2 2	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0	0	- 0	1,000 1,000 1,000 1,000	6 5 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000							
Habitat Means			0.00	0.00		0.00	0.0	0	o			0.00	0.00		0.00	0.00		0								
Fisher's Stouffer's		Power Power				r-50% r-50%				0.698 0.500	Power Power				er-50% er-50%		P-val P-val		0.698		Power Power			P-valu P-valu		
453C/453 3 601C/601 3 598C/598 3	3 3 3 3	3 5 4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.0	0		1.000	3 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-		1.000 1.000 1.000 1.000							
Habitat Means			0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00		0								
Fisher's Stouffer's		ower Power				r-50% r-50%	-			0. 698 0.500	Power Power				er-50% er-50%		P-val		0.698 0.500		Power Power			P-valu P-valu		

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

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	Phaeoph	ıyta					Morg	phologi	cal (Group:	Bladed B	TOWNS			_		Total	l Fuc	us gardn	eri (P)			
Site Pair	Mvd 1	N	c	2E	N	0	SE	c	v D	P	N	c	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	C	v D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 6 1 6 1 6 1 6	5 5	37.50 49.17 14.17 0.00 50.83	17.08 20.28 13.67 0.00 18.20	5 6 6	2.50 19.50 16.67 0.42 47.50	1.5 16.6 16.6 0.4 17.2	18 57 12	- + - + 	0.076 0.296 0.890 0.363 0.925	6 6 6 6	37.50 49.17 14.17 0.00 50.83	17.08 20.28 13.67 0.00 18.20	5 6	2.50 19.50 16.67 0.42 47.50	1.58 16.48 16.67 0.42 17.22	- -	÷ -	0.076 0.296 0.890 0.363 0.925	6 6 6 6	37.50 49.17 14.17 0.00 50.83	17.08 20.28 13.67 0.00 18.20	5 6 6	2.50 19.50 16.67 0.42 47.50	1.58 16.48 16.67 0.42 17.22	3	- + 	0.076 0.296 0.890 0.363 0.925
Habitat Mean	15		30.34	13.86		17.32	10.4	18	+			30.34	13.86		17.32	10.48		+			30,34	13.86		17.32	10.48	ı	+	
Fisher's Stouffer's		ower	0.141			r-50% r-50%	0.203 0.371			0.198 0.467	Power Power				r-50% r-50%	0.185 0.349				Power Power	0.136 0.131			r-50% r-50%				0.198 0.467
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 6 2 6 2 6	5	50.00 53.00 17.92 8.33 52.50	18.96 16.83 12.88 5.46 17.77	5 5 6	43.00 4.00 16.50 29.17 0.00	19.0 2.4 16.5 18.0	15 50 9		0.701 0.027 0.872 0.407	6 5 6 6	50.00 53.00 17.92 8.33 52.50	18.96 16.83 12.88 5.46 17.77	5 5 6	43.00 4.00 16.50 29.17 0.00	19.01 2.45 16.50 18.09	- - -	+	0.701 0.027 0.872 0.407	6 5 6 6	50.00 53.00 17.92 8.33 52.50	18.96 16.83 12.88 5.46 17.77	5 5 6	43.00 4.00 16.50 29.17 0.00	19.01 2.45 16.50 18.09	1	- + - + 	0.701 0.027 0.872 0.407
Habitat Mean	ns		36.34	14.40		18.54	14.0	13	+			36.34	14.40		18.54	14.03		+			36.34	14.40		18.54	14.03		-	
Fisher's Stouffer's		ower	0.156 0.122			r-50% r-50%	0.486 0.612			0.117 0.262	Power Power	0.148 0.113			r-50% r-50%		P-valu P-valu			Power Power	0.149 0.112			r-50% r-50%				0.117 0.262
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 5 3 4 3 6	5 1 5	42.50 65.83 43.00 28.13 53.75	22.22 25.91 12.73 11.34 12.92	4 3 5	56.25 24.37 76.67 73.00 10.00		55 33 26	- + 	0.730 0.228 0.136 0.143	3 5 4 6	42.50 65.83 43.00 28.13 53.75	22.22 25.91 12.73 11.34 12.92	4 3 5	56.25 23.75 76.67 73.00 10.00	19,49 23.75 23.33 19.26	- - -	+ - - +	0.730 0.213 0.136 0.143	3 5 4 6	42.50 65.83 43.00 28.13 53.75	22.22 25.91 12.73 11.34 12.92	4 3 5	56.25 23.75 76.67 73.00 10.00	19.49 23.75 23.33 19.26	;		0.730 0.213 0.136 0.143
Habitat Mean	15		46.64	17.00		48.08	21.4	12	-			46.64	17.00		47.96	21.48		-			46.64	17.00		47.96	21.49		-	
Fisher's Stouffer's		wer wer	0.049 0.021			r-50% r-50%	0.620 0.691			0.115 0.182	Power Power				r-50% r-50%	0.671	P-val: P-val:			Power Power	0.092 0.075			r-50% r-50%				0.116 0.187

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

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			nd.	ult Fu	cus ga	rdneri	(P) (>	20	m)			Juver	ile Fu	cus	gardneri	(P) (<=	2 cm)		_		Fu	cus St	ipes (P)	(a)			
Site Pair M	vd 1	¥	С	SE	N	0	88		CV D	P	N	c	SE	N	0	SE	CV	D	P	N	c	SE	N	0	SE	C	ם ע	P
	1 6 1 6 1 6 1 6	5	26.25 49.17 14.17 0.00 50.83	15.07 20.28 13.67 0.00 18.20	5 6 6	2.50 19.50 16.67 0.42 47.50	1. 16. 16. 0. 17.	48 67 42	- + - + 	,,,,,,	6 6 6 6	11.25 0.00 0.00 0.00 0.00	11.25 0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0 0	0.363 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 00.0 00.0	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	- 0	1.000 1.000 1.000 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	
Fisher's Stouffer's		ower	0.133 0.128		Power Power		0,200 0.353		-value -value		Power Power				er-50% er-50%		P-val P-val		0.536 0.450	Power Power				:-50% :-50%			alue alue	0.732 0.500
601C/601 598C/598	2 6 2 5 2 6 2 6	5 :	45.83 52.00 17.92 6.25 52.50	18.42 17.20 12.88 5.76 17.77	5 5 6	43.00 2.50 16.50 29.17 0.00	19, 1. 16. 18.	94 50	- + - + +	0.782 0.022 0.872 0.279	6 5 6 6	4.17 1.00 0.00 2.08 0.00	4.17 1.00 0.00 1.19 0.00	55561	0.00 1.50 0.00 0.00 0.00	0.00 1.50 0.00 0.00	-	- 0	0.363 0.888 1.000 0.092	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	- 0	1.000 1.000 1.000 1.000
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		٥	
Fisher's Stouffer's		ower	0.106 0.073		Power Power		0.414		-value -value		Power Power	0.208			er-50% er-50%		P-va) P-va)		0.146 0.082	Power Power				-50% -50%				0.698 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 5 3 6	5	42.50 65.83 42.50 28.13 53.75	22.22 25.91 12.55 11.34 12.92	4 3 5	56.25 23.13 76.67 73.00 10.00	19. 23. 23. 19.	13 33	 - + - +	0.730 0.196 0.132 0.143	3 5 4 6	0.00 0.00 0.50 0.00	0.00 0.00 0.50 0.00 0.00	4	0.00 0.63 0.00 0.00	0.00 0.63 0.00 0.00	-	-	1.000 0.391 0.374 1.000	3 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0	1.000 1.000 1.000 1.000
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	
Fisher's Stouffer's		ower	0.107 0.082		Power Power		0.639 0.708		-value -value	0.114 0.193	Power Power				er-50% er-50%		P-val P-val		0.585 y 0.601	Power Power				-50% -50%				0.698 0.500

Table C-5.459, Algal Percent Cover. Phasophyta, Prince William Sound. Sheltered Rocky, August 1993. Overstory removed July 1990. (Continued.)

	Petalonia/Po						AE) (1)			Mo	orphologi	cal Gr	oup:	Coarse F	ilament	ous B	row	ns			Di	ctyosi	phon sp.	(A)			
Site Pair	Mvđ	N	c	SE	N	0	SE	ĊV	D	P	N	c	SE	N	0	SE	CV	ם	P	N	С	SE	N	0	SE	CV	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000
Habitat Mean	ıs		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power			Power			P-val P-val		0.732 0.500	Power Power				er-50% er-50%		e-valu e-valu		0.732 0.500	Power Power			Power Power			-valu -valu		0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	ō	1.000 1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6 1	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	00000	1.000 1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6 1	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000
Habitat Mean	ns		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power			Power Power			P-val P-val		0.698 0.500	Power Power				er-50% er-50%		P-valu P-valu		0.698 0.500	Power Power			Power Power			?-valu ?-valu		0.698 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	3 3 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- - -			3 3 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	3 3 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- -	0	1.000 1.000 1.000 1.000
Habitat Mean	າຮ		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power			Power			P-va. P-va.		0.698 0.500	Power Power				er-50% er-50%		P-valu P-valu		0.698 0.500	Power Power			Power Power	-50% -50%		P-valu P-valu		0.698 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 habital names is different than direction of overall tests.
z Only one site pair.

Table 0-5.459, Page 3, Decumber 15, 1994

			My	elophy	/cua/	9cytosipho	on (A)	(a)			3	torpholog	ical G	roup	: Fine Fi	Llamento	ous Br	COMI) (F		F	ine Fil	amento	us Brown	s (AE)	(b)		
Site Pair	Mvd	ı N	c	SE	N	0	SE	СV	D	P	N	С	SE	N	0	SE	CA	D	P	N	С	SE	N	0	SE	CA	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 00.0 00.0 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00) -) -	0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000
Labitat Mea	ns		0.00	0.00		0.00	0.0)	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	's	Power Power				r-50% r-50%				0.732 0.500	Power Power				er-50% er-50%		P-val P-val		0.732 0.500	Power Power			Power Power			P-val P-val		0.732 0.500
1825C/1424 153C/453 501C/601 598C/598 L522C/1522	2 2 2 2 2	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00) -) -	0	1.000 1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-		1.000 1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mea	ans		0.00	0.00		0.00	0.0)	٥			0.00	0.00		0.00	0.00)	0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	's	Power				r-50% r-50%		P-val P-val		0.698 0.500	Power Power				er-50% er-50%		P-val P-val		0.698 0.500	Power Power			Power Power			P-val P-val		0.698 0.500
1825C/1424 153C/453 501C/601 598C/598 1522C/1522	3 3 3 3	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00) -) -	0	1.000 1.000 1.000 1.000	3 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00) -) -	00000	1.000 1.000 1.000 1.000	3 3 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mea	ans		0.00	0.00	1	0.00	0.0)	0			0.00	0.00		0.00	0.00)	0			0.00	0.00	•	0.00	0.00		0	
Fisher's Stouffer'	's	Power Power				r-50% r-50%		2-val 2-val		0.698 0.500	Power Power				er-50% er-50%		P-val P-val		0.698 0.500	Power Power			Power Power			P-val P-val		0.698 0.500

(a) Genera not separated.

Table C-5.459. Algal Percent Cover. Phasophyta. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed July 1990. (Continued.)

	M												I	eather	iia/C	Colpomenia	(A) (a)						Sore	inther	a ulvoide	ea (A)			
Site Pair	Mvd	l N	C	SE	N	0	_E		CV	Þ	P	N	С	SE	N	o	SE	CV	Þ	P	N	С	Se	N	0	SE	CV	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0. 0. 0.	00 00 00		0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	00000	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000
Habitat Mea	រាន		0.00	0.00		0.00	٥.	00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'		Power Power			Power				valu valu		0.732 0.500	Power Power				er~50% er-50%		-val:		0.732 0.500	Power Power			Power Power			-val -val:		0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	6 5 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.	00	-	0	1.000 1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	00000	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - - -	0	1.000 1.000 1.000 1.000
Habitat Mea	rs		0.00	0.00		0.00	0.	00		0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'		Power Power			Power				-valu -valu		0.698 0.500	Power Power				er-50% er-50%		e-valu		0.698 0.500	Power Power			Power Power					0.698 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	5 4	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.63 0.00 0.00	0. 0. 0.	63 00	- - -	-	1.000 0.391 1.000 1.000	3 3 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.63 0.00 0.00 0.00	0.00 0.63 0.00 0.00	- - - -	0 - 0 0 0	1.000 0.391 1.000 1.000	3 3 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- - - -	0	1.000 1.000 1.000 1.000
Habitat Mea	ıns		0.00	0.00		0.12	0.	15		-			0.00	0.00		0.12	0.15		-			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'		Power Power			Power Power				valu valu		0.492 0.321	Power Power				er-50% er-50%		-val		0.492 0.321	Power Power			Power		1 1			0.698 0.500

(a) Genera not separated.

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

Table C-5.459. Page 5. December 15, 1994

			Morpho	ologic	al Gro	oup: Cru	stose 1	PLOWING				Ralfei	a/Pet	roderma	(P) (a)										
		4 17	·	69	w	^	GB.	רש ו	ם ו	N	c	SK	N	n	ЯE	מ עם	P	N	С	SE	N	0	SE	CV D	P
823C/1424 153C/453 601C/601 698C/598 .522C/1522	111111	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- c	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0	1.00 1.00 1.00))							
Habitat Mea	ns		0.00	0.00		0.00	0.00				0.00	0.00		0.00	0.00	0									
Fisher's Stouffer'	s	Power Power			Power				0.732	Power Power				r-50% r-50%		-value					Power Power			P-value P-value	
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2	6 5 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00	- 6	1.000	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- 0	1.00 1.00 1.00								
Mabitat Mea	ពាន		0.00	0.00		0.00	0.00)		0.00	0.00		0.00	0.00	0									
Fisher's Stouffer'	8	Power Power			Power				0.698	Power Power				c-50% c-50%		-value -value					Power Power			P-value P-value	
4825C/1424 453C/453 501C/601 598C/598 L522C/1522	3	3 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- c		3 3 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0	1.00))							
Habitat Mea	ns		0.00	0.00		0.00	0.00				0.00	0.00		0.00	0.00	0									
Fisher's Stouffer'	5	Power Power			Power				0.698	Power Power				r-50% r-50%		-value -value					Power Power			P-value P-value	

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

Table C-5.460. Algal Percent Cover. Rhodophyta. Prince William Sound. Shaltered 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; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o control = oiled; P = probability value; dashes insufficient data.

					Tota1	Rhodoph	yta			_	Mor	pholog	ical	Group:	Bladed F	teds			_			Bangi	a sp. (Al	3)			
Site Pair	Œ		-			-			-	N	c	SE	N	0	SE	CV :	D	P	N	c	SE	N	0	SE	CV	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522		6 6 6 6	0.00 0.83 5.00 0.00	0.00 0.83 4.52 0.00 0.00	6	2.00 6.00 0.00 0.00 0.00	2.00 6.00 0.00 0.00)) - +) - 0	0.374 0.504 0.248 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- :	0	1.000 1,000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000
Habitat Mean	ş		1.16	1.06		1.60	1.60				0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power	0.000		Power			P-value P-value		Power Power				x-50%		P-valu P-valu		0.732 0.500	Power Power			Power Power					0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5	2.00 0.00 0.00 0.00 0.00	1.40 0.00 0.00 0.00) - o) - o	0.198 1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 4	0	1.000 1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mean	19		0.00	0.00		0.40	0.3	-			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power	0.001		Power			P-value P-value		Power Power				r-50% r-50%		P-valu P-valu		0.698 0.500	Power Power			Power Power					0.698 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3	5	0.00 24.17 7.00 4.38 1.25	0.00 17.22 7.00 3.59 1.25	4	15.00 3.13 0.00 0.50 35.00	9.46 3.11 0.00 0.50	3 - + 0 - + 0 - +	0.272	3 3 5 4 6	0.00 20.00 0.00 0.63 0.00	0.00 18.76 0.00 0.63 0.00	4 3 5	0.00 0.00 0.00 0.00 7.50	0.00 0.00 0.00 0.00		+	1.000 0.328 1.000 0.391	3 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mean	5		7.38	5.82		10.72	3.28	} +			4.12	3.88		1.50	0.00		+			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer's		Power Power	0.067		Power Power		0.087	P-value P-value		Power Power	0.002 0.002			r-50% r-50%		P-valu P-valu			Power Power			Power					0.698 0.500

- x A: least one site pair p-value < 0.100 in opposite direction of overall tests. y Pigraction of difference between partial means is different than direction of overall tests. 2 Only one site pair.

				Gigart	inac	eae Group	(P) (a)					P	alma	ria spp.	(A)						Ph	ycodry	e riggii	(A)			
Site Pair	Myć	1 N	С	SE	N	0	SE	CV	D	P	N	С	BE	N	0	SE	CV :	D	Ð	N	С	SE	N	0	SE	ÇV I	,	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1 1 1	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0) -) -		1.000 1.000 1.000 2.000 1,000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- :	0	1.000 1.000 1.000 1.000 1.000	6666	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c		1.000 1.000 1.000 1.000 1.000
Habitat Mean	r.s		0.00	0.00		0.00	0.0)	0			0.00	0.00		0.00	0.00	,	0			0.00	0.00		0.00	0.00	(0	
Fisher's Stouffer's	s	Power Power				er-50% er-50%		P-val P-val		0.732 0.500	Power Power				er-50% er-50%		e-valu		0.732 0.500	Power Power			Power	:-50% :-50%		-value -value		
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00) -) -	00000	1.000 1.000 1.000 1.000	б 5 6 6	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	- 1	0	1.000 1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0	9 3	1.000 1.000 1.000 1.000
Habitat Meas	ກຮ		0.00	0.00		0.00	0.0)	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00)	
Fisher's Stouffer's	ş	Power Power				er-50% er-50%		P-val P-val		0.698 0.500	<i>Power</i> Power				er-50% er-50%		e-value e-value		0.698 0.500	Power Power			Power Power	:-50% :-50%		-value		
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	3 5 4 6	0.00 0.83 0.00 0.63 0.00	0.00 0.83 0.00 0.63 0.00	4 3 5	0.00 0.00 0.00 0.00 7.50	0.00) -) -	0 + 0 + -	1.000 0.423 1.000 0.391	3 5 4 6	0.00 19.17 0.00 0.00 0.00	0.00 19.17 0.00 0.00 0.00	4 3 5	0,00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- ·	+	1.000 0.423 1.000 1.000	3 3 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c		1.000 1.000 1.000 1.000
Habitat Mean	ns		0.28	0.28		1.50	0.0)	+			3.84	3.84		0.00	0.00		+			0.00	0.00		0.00	0.00	c)	
Fisher's Stouffer's	ş	Power Power				er-50% er-50%		P-val P-val		0.330 v 0.132	Power Power				er-50%		-valu			Power Power			Power Power			-value		

(a) Chondrus, Eridaes, Mastocarpus and Rhodoglossum.

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x At least one site pair p-value < 0.100 in opposite direction of overall reats, y Direction of difference between habitet means is different than direction of overall tests. 2 DNly one site pair.

Table C-5.460. Algal Percent Cover, Rhodophyta, Prince William Sound. Sheltered Rocky. August 1993. Overstory removed July 1990. (Continued.)

					Porpl	byra sp. (A)						Rhod	iaemyl	ia pertusa	L (A)					•	Tokida	dendro	n kurile	(A) aiec			
Site Pair M	Mvd	N	c	SE	N	0	8E	CV	Q	P	N	c	SE	N	0	SE	CV	D	P	N	С	SE	N	0	SE	CV I		P
453C/453 601C/601 598C/598	1 1 1 1	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0	0 -	0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	00000	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c	1	.000 .000 .000 .000
Habitat Means	s		0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	c		
Fisher's Stouffer's		Power Power				er-50% er-50%				0.732 0.500	Power Power			Power			-valu		0.732 0.500	Power Power			Power Power			-value		
601C/601 598C/598	2 2 2 2 2	6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0	0 -	0	1.000 1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	55562	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	00000	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0	1	L.000 L.000 L.000 L.000
Habitat Means	s		0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00	(,	
Fisher's Stouffer's		Power				er-50% er-50%		P-va P-va		0.698 0.500	Power Power			Power Power			-valu		0.698 0.500	Power Power			Power Power			-value -value		
453C/453 601C/601 598C/598	3 3 3 3	3 5 4	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	3 5	0.00 0.00 0.00 0.00	0.0 0.0 0.0	0 -	0	1.000 1.000 1.000 1.000	3 3 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 4 3 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-		1.000 1.000 1.000 1.000	3 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c	1	L.000 L.000 L.000
Habitat Means	5		0.00	0.00		0.00	0.0	0	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		,	
Fisher's Stouffer's		Power Power				er-50% er-50%				0.698 0.500	Power Power			Power	r-50% r-50%		e-valu e-valu		0.698 0.500	Power Power			Power Power			-value -value		

X At least one site pair p-velue < 0.100 in opposite direction of overall tests.</p>
y Direction of difference between habitat means is different than direction of overall tosts.
Z Only one site pair.

(ab)a C-5.460. Page 3. December 15, 1994

z Only one alte	pair.																									-9		
		1	torpholog	ical G	roup:	Coarse	Filame	atous	Red	le		λı	ticul	ate Co	oralline	Algae (/	A)					Crypt	osiph	onia wood	dii (A)			_
Site Pair	Mvd	N	с	8E	N	•	SE	CV	D	P	N	С	SE	N	0	SE	СV	D	P	N	С	SE	N	٥	ge	cv	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1	6 6 6 6	0.00 0.00 0.42 0.00 0.00	0.00 0.00 0.42 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) -) -	0 + 0	1.000 1.000 0.363 1.000 1,000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0 0 0	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000
Habitat Mea	ns		0.08	0.08		0.00	0.00		+			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'		Power Power			Power					0.536 0.417	Power Power			Power	r-50% r-50%		P-valu P-valu		0.732 0.500	Power Power				c-50% c-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5	2.00 0.00 0.00 0.00 0.00	1.46 0.00 0.00 0.00	- - -	0	0.198 1.000 1.000 1.000	6 5 6 6	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	1.000 1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00		0.40	0.38		-			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'		Power Power	0.001		Power Power					0.361 0.428	Power Power			Power			P-valu P-valu		0.698 0.500	Power Power			Power Power					0.698 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3	3 5 4 6	0.00 4.17 7.00 3.75 1.25	0.00 4.17 7.00 3.75 1.25	4 3 5	8.75 3.13 0.00 0.50 17.50	7,94 3,13 0,00 0,50	- -		0.274 0.846 0.374 0.497	3 3 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	3 3 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mea	ns		3.26	3.26		5.98	2.88	1	+			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	\$	Power Power	0.002 0.001		Power Power			P-val P-val		0.418 y 0.242	Power Power			Power Power	r-50% r-50%		P-valı P-valı		0.698 0.500	Power Power			Power Power		I			0.698 0.500

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

Table C-5.460. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed July 1990. (Continued.)

			E	ndoc	cladia	muricat	a (P)						Gloi	opelt	tis furcat	a (A)					N	eorhod	omela/	Rhodome1	a (P) (a.)		
Site Pair M	avd N	С	SE		N	0	SE	СA	D	P	N	С	SE	н	0	SE	CA	D	P	N	С	SE	N	0	SE	CV	ם	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 6 1 6 1 6 1 6 1 6	0.00 0.00 0.00 0.00	0. 0.	00	5 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- - -	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.42 0.00 0.00	0.00 0.00 0.42 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	. 0	1,000 1,000 0.363 1,000
Habitat Means	s	0.00	0.	.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.08	0.08		0.00	0.00		+	
Fisher's Stouffer's	Powe				Power-			P-val		0.732 0.500	Power Power				er-50% er-50%		-valu -valu		0.732 0.500	Power Power			Power Power					0.536 0.417
453C/453 601C/601 598C/598	2 6 2 5 2 6 2 6 2 6	0.00 0.00 0.00 0.00	0. 0.	00.00	5 5 5 6 1	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00	-	0 0 0 0	1.000 1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 1	2.00 0.00 0.00 0.00 0.00	1.46 0.00 0.00 0.00 	-	0	0.198 1.000 1.000 1.000
Habitat Means	s	0.00	0.	.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			0.00							
Fisher's Stouffer's	Powe Powe		 		Power-			P-val P-val		0.698	Power Power				er-50% er-50%		P-valu P-valu		0.698 0.500	Power Power	0.002		Power					0.361
601C/601 598C/598	3 3 3 3 3 5 3 4 3 6	0.00 0.00 0.00 0.00	0	.00	4 4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000	3 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	00000	1.000 1.000 1.000 1.000	3 5 4 6	0.00 4.17 7.00 3.75 1.25	0.00 4.17 7.00 3.75 1.25	4 3 5 1	8.75 3.13 0.00 0.50 17.50	7.94 3.13 0.00 0.50			0.274 0.846 0.374 0.497
Habitat Means	Ś	0.00	0	.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0			3.26	3.26		5.98	2.88		-	
Fisher's	Powe	-			Power-					0.698 0.500	Power Power				er-50% er-50%		P-valu P-valu		0.698 0.500	Power Power	0.003 0.003		Power Power					0.418 y 0.242

[a: Cenera not separated

at Comera not separated. At least one site pair p-value < 0.100 in opposite direction of overall tests. Direction of difference between habital means is different than direction of overall tests.

Only one site pair.

Morphological Group: Saccate Reds Ptilota/Neoptilota (P) (b) Odonthalia floccosa (P) CV D SE N 0 SE CV D P SE 0 c SE 0 SE CV D P Site Pair Mvd N c 1.000 .000 0.00 0.00 0.00 0.00 0 0.00 0.00 1.000 0.00 O 0.00 0.00 0.00 0.00 0.00 4825C/1424 6 1.000 0.00 0.00 0.00 1.000 0.00 0.00 0.000.00 Ω O 0.00 0.00 0.00 0 1.000 6 0.00 0.00 453C/453 6 0.00 0.00 1.000 - n 0.00 0.00 0.00 1.000 0.00 0.00 б 0.00 0.00 0.00 0 1.000 б 0.00 0.00 603C/601 6 0.00 0.00 1.000 0.00 1.000 0.00 0.00 0 0.00 0.00 0.00 0 1 000 0.00 0.00 0.00 0.00 0 598C/598 0.00 - 0 1.000 1.000 0.00 0.00 0.00 0.00 0.00 6 0.00 0.00 0.00 0.00 0 1.000 1522C/1522 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 Habitat Means 0.00 --- P-value 0.732 Power-50% --- P-value 0.732 Power-50% Power --- P-value 0.732 Power Fisher's Power Power-50% Power-50% --- P-value 0,500 0.500 Power Power-50% --- P-value 0.500 Power Power-50% --- P-value Stouffer's Power 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 1 000 0.00 0.00 - 0 1.000 4825C/1424 0.00 0.00 5 - 0 1.000 0.00 0.00 0.00 0.00 1.000 1.000 0.00 0.00 0.00 0.00 - O 453C/453 0.00 0.00 5 0.00 0.00 0 0.00 - 0 1.000 0.00 0.00 1.000 0.00 0.00 0.00 0.00 -0 1.000 6 0.00 0.00 601C/601 0.00 0.00 5 0.00 0 1.000 0.00 0.00 0.00 - 0 0.00 0.00 0.00 0.00 0.00 0 1.000 0.00 - 0 1.000 598C/598 0.00 0.00 6 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 1522C/1522 2 0.00 0.00 0.00 --0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0.00 0.00 0.00 Habitat Means Power-50% --- P-value 0.698 Power-50% --- P-value 0.698 Power Power-50% P-value 0.698 Power Fisher's Power --- P-value 0.500 Power Power-50% --- P-value 0.500 --- P-value 0.500 Power-50% Power ---Power-50% Stouffer's Power 0.391 1.000 0.00 0.00 1.88 1.88 0.00 1.000 0.00 0.00 0.00 0.00 Ó 0.00 0.00 0 4825C/1424 0.00 4 0.00 0.00 0.00 0.00 - o 1.000 0.00 _ 1,000 0.00 0.00 0.00 0.00 - Q 1.000 0.00 0.00 0 453C/453 3 3 0.00 4 - 0 0.00 1.000 0.00 0.00 0.00 0.00 1.000 0.00 -0 0.00 1.000 0.00 0.00 0.00 0.00 0 601C/601 0.00 3 0.00 0.00 0.00 0.00 - 0 1.000 1.000 0.00 0.00 0.00 0.00 0 1.000 0.00 0.00 0.00 0 0.00 598C/598 5 0.00 0.00 10.00 0.00 0.00 0.00 Ó 0.00 0.00 0 1522C/1522 3 6 0.00 0.48 0.00 0.00 0.00 0.00 0.00 2.38 0.00 0.00 0.00 0.00 0.00 Habitat Means --- P-value 0.492 Power-50% --- P-value 0.698 Power-50% P-value 0.698 Power-50% Power . . . Fisher's Power --- P-value 0.452 --- 2-value 0.500 Power-50% Power-50% Power-50% 2-value 0.500 Power ---Stouffer's Power

Table 0-5.460. Page 5. December 15, 1994

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

Table C-5.460. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed July 1990. (Continued.)

			Ħ	talosa	ccion	glandifo	rme (A)					Ha1	.0 58 0	cion app.	(A)					Morphol	ogical	Group:	Fine !	Filament	ous	Reds	
Site Pair	Mvd						AF.	(Tr	n	n	N	С	SE	Ŋ	0	SE	GA D	•	P	N	С	SE	N	0	SE	CV	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00) –) –	٥	1.000 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0 - 0	1	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00		0.00	0.00)	0			0.00	0.00		0.00	0.00	0	,			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	_	ower			Power			P-val P-val		0.732 0.500	Power Power				x-50% x-50%		-value -value		0.732 0.500	Power Power			Power- Power-			P-va P-va		0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5	0.00 0.00 0.00 0.00	0.00) -	0	1,000 1.000 1.000 1.000	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0 - 0		1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000
Habitat Mea	ıns		0.00	0.00		0.00	0.0)	o			0.00	0.00		0.00	0.00	0)			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	P	ower			Power			P-val P-val		0.698	Power Power				er-50% er-50%		-value		0.698 0.500	Power Power			Power					0.698
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3 3 3 3	5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	1.88 0.00 0.00 0.00 10.00	1.8 0.0 0.0 0.0) -) -		0.391 1.000 1.000 1.000	3 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0		1.000 1.000 1.000 1.000	3 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5 1	3.75 0.00 0.00 0.00	2.98 0.00 0.00 0.00	-	0 0 0	0.227 1.000 1.000 1.000
Habitat Mea	ans		0.00	0.00		2.38	0.4	3	-			0.00	0.00		0.00	0.00	C)			0.00	0.00		0.76	0.75		-	
Fisher's		bwer			Power			P-va P-va		0.492 0.452	Fower Fower				er-50% er-50%		2-value 2-value		0.698 0.500	Power	0.002		Power Power					0.385

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

Table C-5.460. Page 7. December 15, 1994

z Only one sice	pari.		Polv	aiphor	nia/Pt	erosipho	nia (A)	(a)				Morp	hologi	cal (Group: Cr	rustose :	Reds				c	rustos	se Co	ralline A	lgae (P))		
Site Pair	Mvd	N N		SE	N	0	SE	CV	ם	P	N	С	SE	N	0	SE	CV 1	,	P	N	С	SE	N	0	SE	CV	D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.83 4.58 0.00 0.00	0.00 0.83 4.58 0.00 0.00	5 6 6	2.00 6.00 0.00 0.00 0.00	2.00 6.00 0.00 0.00			0.374 0.504 0.363 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0 0	1.000 1.000 1.000 1.000 1.000
Habitat Mca	ıns		0.00	0.00		0.00	0.00		0			1.08	1.08		1.60	1.60		-			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	9	Power Power			Power					0.732 0.500	Power Power				er-50% er-50%		-value		0.505 0.395	Power Power				r-50% r-50%		P-val P-val		0.732
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2 2 2	6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0	1.000 1.000 1.000	65666	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 6 - 6 - 8	5	1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 1	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	0000	1.000 1.000 1.000 1.000
Habitat Mea	ins		0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		Q			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'		Power Power			Power			P-val P-val		0.698 0.500	Power Power				er-50% er-50%		P-valu P-valu		0.698 0.500	Power Power				r-50% r-50%		P-val P-val		0.698
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3	4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	3.75 0.00 0.00 0.00 0.00	2.98 0.00 0.00 0.00	- -	0	0.227 1.000 1.000 1.000	3 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.63 0.00 0.00 0.00 0.00	0.63 0.00 0.00 0.00	-	٥	0.391 1.000 1.000 1.000	3 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5 1	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0 0 0	1.000 1.000 1.000 1.000
Habitat Mea	ans		0.00	0.00		0.76	0.75		-			0.00	0.00		0.12	0.15		-			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'		Power Power	0.001		Power Power	-50% -50%				0.385 0.432	Power Power				er-50% er-50%		P-valu P-valu		0.492 0.452	Power Power				r-50% r-50%				0.698 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 habital means is different than direction of overall tests.
z Only one site pair.

Table C-5.460. Algal Percent Cover. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed July 1990. (Continued.)

				Hi	denbr	andia sp.	. (P)							Petr	rocelia (P	•)												
Site Pair	Mvć	a N	С	SE	N	0	SE	CV	D	P	N	С	SE	N	o	SE	CV D	ı	P	N	С	SE	N	0	SE	С	V D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1	6 6 6 6	0.00 0.83 4.58 0.00 0.00	0.00 0.83 4.58 0.00	5 6 6	2.00 6.00 0.00 0.00 0.00	2.00 6.00 0.00 0.00	-		.504 .363 .000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0 - 0	1.0 1.0 1.0	000 000 000									
labitat Mea	ms		1.08	1.08		1.60	1.60		-			0.00	0.00		0.00	0.00	0											
Fisher's Stouffer'		Power Power				r-50% r-50%		P-valu P-valu			Power Power				er-50% er-50%		-value -value			Power Power			?ower ?ower			P-v P-v		
4825C/1424 453C/453 501C/601 598C/598 1522C/1522	2	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	-	0 1	.000	б 5 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0	1.0	000									
Mabitat Mea	ns		0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00	0											
Fisher's Stouffer'	S	Power Power				r-50% r-50%		P-valu P-valu			Power Power				er-50% er-50%		'-value			Power Power			Power Power			P-v		
1825C/1424 153C/453 501C/601 598C/598 L522C/1522	3	3 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.63 0.00 0.00 0.00 0.00	0.63 0.00 0.00 0.00	-	o 1	.000	3 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 0	1.0 1.0 1.0	000									
Habitat Mea	115		0.00	0.00		0.12	0.15		-			0.00	0.00		0.00	0.00	0											
Fisher's Stouffer'		Power Power				r-50% r-50%		P-valı P-valı			Power Power				er-50% er-50%		-value			Power Power			Power Power			P-v P-v		

x At leggt one site pair p-value < 0.180 in opposite direction of overall tests. y Direction of difference between babital means is different than direction of overall tests. z Only one site pair.

Table C-5.461. Aigal 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; p = probability value; dashes = insufficient data.

					Bal	anomorph	ıa.							L	ottiidae						_		м	ytilus					
Site Pair M	Mvd	N	c	SE	, N	0	SE	CA	D	P	N	С	SE	N	0	SE	CA I	0	P	N	c	SE	N	0	SE	- (ÇV D		P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1 1 1 1	6 6 6 6	1.25 0.00 6.67 4.58 5.42	0.85 0.00 3.69 3.19 3.44	5 6 6	33.00 0.00 1.25 8.75 5.00	16.38 0.00 0.56 5.60 4.00	5 - 2 -		0.127 1.000 0.218 0.643 0.987	6 6 6	0.00 0.00 0.83 0.00	0.00 0.00 83.0 00.0	5 5 6 6 6	0.50 0.50 0.00 0.83 0.00	0.50 0.50 0.00 0.53 0.00	 	-	0.374 0.374 0.363 0.175 1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		- 0 - 0 - 0	1	000
Habitat Means	9		3.60	2.24		9.62	5.32	2	-			0.16	0.16		0.36	0.30	-	-			0.00	0.00		0.00	0.00	Ò	c	•	
Fisher's Stouffer's		Power Power	0.101 0.052			r-50% r-50%		P-va P-va		0.376 0.389	Power Power	0.065			r-50% r-50%		-value -value		0.204 0.075	Power Power				r-50% r-50%			value value		.732 .500
453C/453 601C/601 598C/598	2 2 2 2 2	6	9.17 12.50 15.00 11.67 11.25	9.17 8.44 13.10 8.75 6.97	5 5 6	18.00 34.50 1.50 10.42 20.00	8.6/ 13.12 1.00 6.00	2 - 3 - 3 -	+	0.281 0.148 0.452 0.909	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5556.1	0.50 0.00 0.00 0.42 0.00	0.50 0.00 0.00 0.42	- c	0	0.374 1.000 1.000 0.363	6 5 6 6	0.00 0.00 0.83 4.58 12.50	0.00 0.00 0.53 1.98 7.58	5 5 6	0.00 3.00 3.50 5.00 0.00	0.00 2.00 0.61 2.74) L 1	- 0	0	.000 1.187 1.009 1.995
Habitat Means	8		11.94	9.30		16.88	7.18	3	-			0.00	0.00		0.18	0.23	-	-			3.58	2.02		2.30	1.32	2	-		
Fisher's Stouffer's		Power Power	0.149 0.126			r-50% r-50%		P-va P-va		0.210 0.252	Power Power				r-50% r-50%		-value		0.299 0.198	Power Power				:-50% :-50%			value value		0.019 y 0.090
601C/601 598C/598	3 3 3 3	3 5 4 6	0.00 0.00 4.50 2.50 2.08	0.00 0.00 3.30 2.50 1.36	4 3 5	0.00 0.63 0.00 0.50 0.00	0.00 0.61 0.00 0.50	3 - 0 -	0 + + +	1.000 0.391 0.130 0.559	3 5 4 6	0.00 0.00 0.50 0.00	0.00 0.00 0.50 0.00	4 3 5 1	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- 0 - 0 - 4	o + 0	1.000 1.000 0.374 1.000	3 3 5 4 6	0.00 0.00 0.50 1.25 0.00	0.00 0.00 0.50 1.25 0.00	4 3 5	0.00 10.63 0.00 2.50 0.00	0.00 7.10 0.00 1.94	2	- 0 + G	0	000 1.198 1.374 1.666
Habitat Means	\$		1.82	1.44		0,22	0.28	3	-			0.10	0.10		0.00	0.00	4	+			0.36	0.36		2.62	2.25	j	-		
Fisher's Stouffer's		Power Power	0.033 0.021			r-50% r-50%		P-va P-va		0.277 0.361	Power Power				r-50% r-50%		-value -value		0.483 0.417	Power Powcr	0.015			-50% -50%			value value		

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

Table C-5.461. Page 1. December 15, 1994

				1	vuce11	la lamello	980				_			Litt	orinidae	ı			_		_		Мс	llusca				
Site Pair	Mvc	1 N	С	SE	Ŋ	0	SE	CA	D	Þ	N	С	SE	N	0	ge	CV	D	P	N	С	SE	N	0	SE	C.	7 D	P
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	1 1 1	6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	2.00 0.00 0.00 0.00 0.00	1.4 0.0 0.0 0.0 0.0	0 - 0 - 0 -	0	0.198 1.000 1.000 1.000	6 6 6	0.00 0.00 0.00 0.42 0.00	0.00 0.00 0.00 0.42 0.00	5 6 6	0.00 1.00 0.83 0.00	0.00 0.61 0.53 0.00		-+	1.000 0.178 0.175 0.363 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	- o - o	1.000 1.000 1.000 1.000
Habitat Mea	ıns		0.00	0.00		0.40	0.3	Ō	-			0.08	0.08		0.36	0.22		-			0.00	0.00		0.00	0.00		o	
Fisher's Stouffer'	s	Power Power	0.000			r-50% r-50%		P-va. P-va		0.426 0.429	Power Power	0.064 0.034			c-50% c-50%				0.230 0.373	Power Power				c-50% c-50%				0.732 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	2 2 2	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 ธ์	0.50 0.00 0.00 0.00 0.00	0.50 0.00 0.00	0 -	0	0.374 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.50 0.00	0.00 0.00 0.50 0.00	- - -	o -	1.000 1.000 0.374 1.000	6 5 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-	- 0	1.000 1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00		0.10	0.1	3	-			0.00	0.00		0.10	0.13		-			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	Ś	Power Power				r-50% r-50%		P-va P-va		0.483 0.450	Power Power				c-50% c-50%		-valu -valu		0.483 0.417	Power Power				-50% -50%				0.698 0.500
4825C/1424 453C/453 601C/601 598C/598 1522C/1522	3	3 3 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00	0 -	0	1.000 1.000 1.000 1.000	3 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		0	1.000 1.000 1.000 1.000	3 3 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00		- 0	1.000 1.000 1.000 1.000
Habitat Mea	ns		0.00	0.00		0.00	0.00	D	0			0.00	0.00		0.00	0.00		0			0.00	0.00		0.00	0.00		0	
Fisher's Stouffer'	s	Power Power				r-50% r-50%				0.698 0.500	Power Power			Power	c-50% c-50%				0.698 0.500	Power Power				-50% -50%				0.698 0.500

x At least one site pair p-value < 0.100 in apposite direction of overall tests. y Direction of difference between habital means is different than direction of overall tests. 2 Only one site pair.

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 circled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = circled mean; CV coefficient of variation; SE = standard error; D = direction of difference; + = control > circled; - = control < circled; P = probability value; dashes : insufficient data.

					_	Rock		_						Oi	led Rock									Sand				
Site Pair	Mv	4 N	С	SE	N	0	SE		CV D	P	N	С	SE	N	0	SE	CV I	,	P	N	c	SE.	И	0	SE		CV D	Þ
4825C/1424 453C/45) 601C/60: 598C/598 1522C/1522		6 6 6	61.25 50.00 73.33 95.00 43.75	17.40 19.99 13.18 3.16 15.26	5 6 6	60.00 72.00 81.25 90.00 41.50	15. 16.	26 77	- +	0.446 0.747 0.391	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- (c	1 1	1.000 1.000 1.000 1.000	6 6 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6 6	0.0) 0.0) 0.0) 0.0)	0.0 0.0 0.0 0.0	0	- 0 - 0 - 0 - 0	1.000
Habitat Nea	ıns		64.61	13.82		70.36	14.	54	-			0.00	0.00		0.00	0.00	c				0.00	0.00		0.00	0.0	0	0	
Fisher's Stouffer'	s	Power Power				er-50% er-50%	0.733		-value -value	0.578 0.557	Power Power				r-50% r-50%		P-value P-value).732).500	Power Power				c-50% c-50%			value value	0.732
4825C/1124 453C/453 601E/60: 598C/598 1522C/1522	2 2 2 2 2	6 5 6 6	38.75 34.50 65.83 75.42	17.15 12.28 15.94 11.72 5.72	5 5 6	36.00 56.50 78.00 55.00 80.00	14. 14. 16. 13.	50 42	- +	0.291	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- c	1 1	.000	6 5 6 6	0.00 0.00 0.00 0.00	0.00 0.30 0.00 0.30		0.00 0.00 0.00 0.00	0.0 0.0 0.0	0	- 0 - 0 - 0 - 0	1.000
Habitat Mea	ıns		45.98	12.56		61.10	14.	65	-			0.00	0.00		0.00	0.00	c	•			0.00	0.00		0.0)	0.0	0	0	
Fisher's Stoufier'	з	Power Power				er-50% er-50%	0.771 0.832			0.515 y 0.362	Power Power				z-50% z-50%		P-value P-value			Power Power				r-50% r-50%			value value	0.598 0.500
4825C/1424 453C/451 601C/601 598C/591 1522C/1522	3 3 3 3	3 5 4 6	13.31 10.00 44.50 40.61 34.51	7.95 8.78 13.82 22.14 14.10	3 5	28.75 56.88 0.00 20.50 54.50	16.	60		0.152	3 5 4 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4 3 5	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- c	1 1	000 000 000	3 5 4 6	20.00 0.00 0.00 18.75 4.58	20.30 0.30 0.30 18.75 4.58	<u>4</u> 3	0.00 0.00 20.83 0.0) 0.0)	0.0 0.0 20.8 0.0	0		0.423 1.000 0.423 0.391
Habitat Mea	п\$		28.5	13,36		31.34	15.	40				0.00	0.00		0.00	0.00	C)			8.68	8.58		4.16	5.2	0		
Fisher's Stouffer'	s	Power				er-5(% er-5(%	0.324 0.397		-vilue	0.126 y 0.402	Power Power				r-50% r-50%		?-value ?-value).698).500	Power Power				c-50% c-50%			value value	0.411 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 "Pa" direction of overall best only one atte pair.

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	Shell Frighents											Wa er									Zostera/Phyllospadix											
Site Pair M	fvd N	С	Œ	Ж	0	6	C	ם	P		-	-		-	BE	- -		N	С	SE	N	0	SE	cv	D	P						
4825C/1424 453C/451 601C/601 598C/598 1522C/1522 Rabitat Means	1 6 1 6 1 6 1 6	0.01 0.01 0.03 0.03 0.03	0.00 0.00 0.00 0.00	5 6 6 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0	000000	1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	- c	1.000	6 6 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	5 6 6	0.0) 0.0) 0.0) 0.0) 0.0)	0.00 0.00 0.00 0.00 0.00	-	0 0	1.000 1.000 1.000 1.000						
Fisher's Stouffer's	Powe Powe	r	-	Powe	er-50%		P-V3	lue	0.732 0.500	Power Power				r-50% r-50%	~	P-value P-value	e 0.732	Power Power			Zowe:	r-50% r-50%		P-valu	ie	0.732 0.500						
453C/451 601C/601 598C/598	2 6 2 5 2 6 2 6 2 6	0.00 0.00 0.00 0.00	0.00 00.0 00.0 00.0	5 5 6	0.00 0.00 0.00 0.00	0.0	0 -	0000		6 5 6 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- 6	1.000 1.000 1.000 1.000	6 5 6 6 6	0.00 0.00 0.00 0.00	0.0 00.0 00.0 00.0	5 5 6	0.0) 0.0) 0.0) 0.0)	0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000						
Habitat Neans	3	0.0)	0.00		0.00	0.0	0	o			0.00	0.00		0.00	0.00	(5		0.00	0.00		0.0)	0.00		0							
Fisher's Stoufier's	Powe Powe				er-50% er-50%		P-v:		0.698	Power Power				r-50% r-50%		P-value P-value		Power Power				r-50% r-50%				0.698 0.500						
453C/453 601C/603 598C/59#	3 3 3 3 3 5 3 4 3 6	0.00 0.00 0.00 0.00 3.75	0.00 0.00 0.00 3.75	4 3 5	(,00 (,00 (,00 (,00 (,00	0.0	0 -	0	1.000	3 5 4 6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	4	0.00 0.00 0.00 0.00	0.00 0.00 0.00	- c	1.000 5 1.000 6 1.000	3 5 4 6	0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0 0.0	4 3 5	0.0) 0.0) 0.0) 0.0)	0.00 0.00 0.00	-	0	1.000 1.000 1.000 1.000						
Habitat Means	3	0.76	0.76		0.00	0.0	0	0			0.00	0.00		0.00	0.00	(0		0.00	0.00		0.00	0.00		o							
Fisher's Stouffer's	Powe				er-50% er-50%				0.698 y 0.500	Power Power				r-50% r-50%		P-value P-value	e 0.698 e 0.500	Power Power				r-50% r-50%				0.698 0.500						

x At least Cre site pair p-value < 0.100 in opposite direction o overall tests. y Direction of difference between hebitat means is different that direction of overall tests. 2 Only one site pair.

Table C-5.462. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. August 1993. Overstory removed July 1990. (Continued.)

Sand and Mud										Total Substrate																		
Site Pair M	MVd N		С	8E	N	0	8E	cv	D	P	N	c	SE	N	٥	SE	ĊΛ	D	P	N	С	gr	N	0	ŜE	CV :	D	P
453C/453 601C/601 598C/598	1 6 1 6 1 6 1 6 1 6	1	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00) -) -	0	1.000 1.000 1.000 1.000	6 6 6	61.25 50.00 73.33 95.00 43.75	17.40 19.99 13.18 3.16	5 6 6	60.00 73.00 81.25 90.00 47.50	17.08 15.60 16.26 5.77 17.89	-	- - +	0.905 0.446 0.747 0.391 0.767									
Habitat Means	9		0.00	0.00		0.00	0.0)	0			64.68	13.82	!	70.36	14.54		-										
Fisher's Stouffer's	Pov Pov					r-50% r-50%				0.732 0.500	Power Power				r-50% r-50%	0.768 0.838			0.578 0.557	Power Power			≥ower Power			-valu		
453C/453 601C/601 598C/598	2 6 2 5 2 6 2 6 2 6	1	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	5 6	0.00 0.00 0.00 0.00	0.00 0.00 0.00) -) -	0	1.000 1.000 1.000	6 6 6	38.75 34.50 65.83 75.42 15.42	17.15 12.28 15.94 11.72 5.72	5 5 6	36.00 56.50 78.00 55.00 80.00	14.11 14.50 16.42 13.62	- - -		0.986 0.291 0.780 0.212									
Habitat Means	3		0.00	0.00		0.00	0.00)	0			45.98	12.56		61.10	14.65	:	+										
Fisher's Stouffer's	Pow Pow					r-50% r-50%				0.698 0.500	Power Power				r-50% r-50%		P~val P~val		0.515 y 0.362	Power Power		·	Power Power			-value		
453C/453 601C/601 598C/598	3 3 3 3 3 5 3 4 3 6	1	0.00 0.00 0.00 8.75 8.33	20.00 0.00 0.00 18.75 8.33	4 3 5	0.00 0.00 20.83 0.00 0.00	0.00 0.00 20.83 0.00) - 3 -	0	0.423 1.000 0.423 0.391	3 5 4 6	33.33 10.00 44.50 59.38 42.92	27.32 8.78 13.82 18.27	4 3 5	28.75 56.88 20.83 23.50 52.50	22.19 22.60 20.83 16.82	- -	-	0.999 0.152 0.309 0.143									
<u> Mabitat</u> Means	8		9.42	9.42		4.16	5.20)	-			38.02	16.32		36.50	20.60	i	+										
Fisher's Stouffer's	Pow Pow					r-50% r-50%				0.411 0.273	Power Power				r-50% r-50%	0.425 0.512				Power Power			Power			-value		

x. At least one site pair p-value < 0.100 in opposite direction of overall tests. y Direction of difference between habitat means is different chan direction of overall tests. 2 Only one site psiir.

APPENDIX C-6 COASTAL HABITAT ASSESSMENT INTERTIDAL ALGAE STANDARD OPERATING PROCEDURES

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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.

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 \pounds 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 limiter 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.

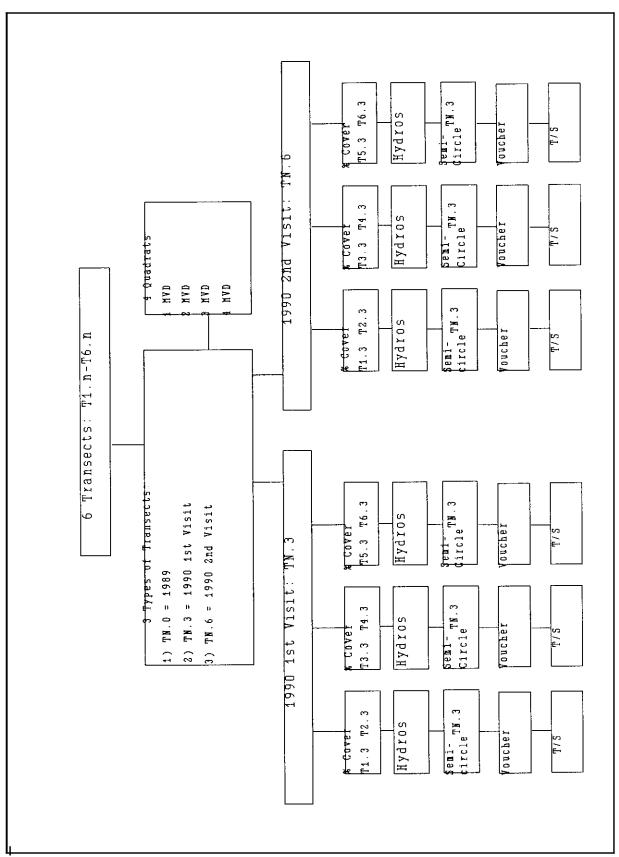
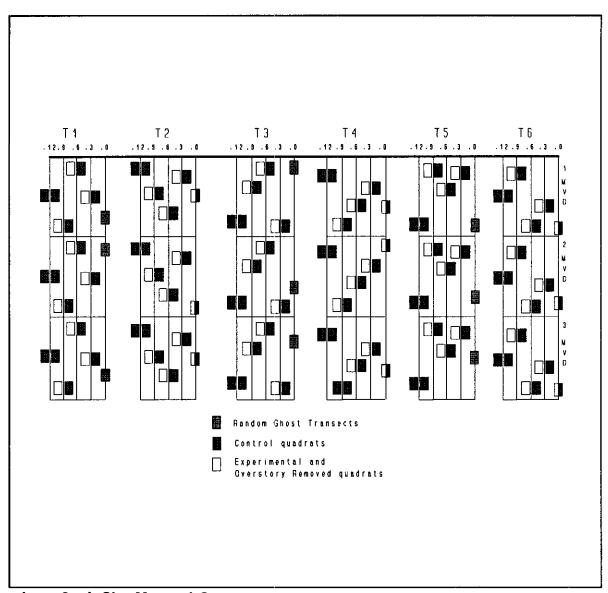


Figure 1: 1990 Site Flow Chart of Algal Field Crew Duties



igure 2: A Site Mapped Out

11. ALGAL PERCENT COVER ESTIMATES

- Algal percent cover is a visual estimate of the algae covering the surface of a quadrat before quadrat sampling takes place.
- В. Algal percent cover should be done in all areas, habitats, transects, and quadrats.
 - Areas and habitats: PWS, CIK, KAP and sheltered rocky, 1. exposed rocky, coarse textured, and estuarine.
- Algal percent cover estimates will first be done on control C. quadrats and then the experimental quadrats for each MVD.
- After the quadrat is in place, all drift algae should be removed D. from the quadrat.
 - Estimates should be made at the angle of repose of the 1. algae; that is, it does not matter for this estimate where the algal holfasts are attached or whether one species obscures another.
- Ε. The percent cover is recorded on data sheets provided.
 - The most commonly encountered algae are pre-written on the data sheets with additional blank spaces at the bottom for adding unlisted species.
 - If the genera/species is not known for some algae, then descriptive terms, such as "Palmaria-like' or "Leafy red 2. that is green color" may be used.
- Back on the boat the data sheets are recopied on duplicate data F. sheets for the algae crew records. The original data sheets are returned to the invertebrate crew.

I. ALGAL BIOMASS QUADRAT SAMPLING

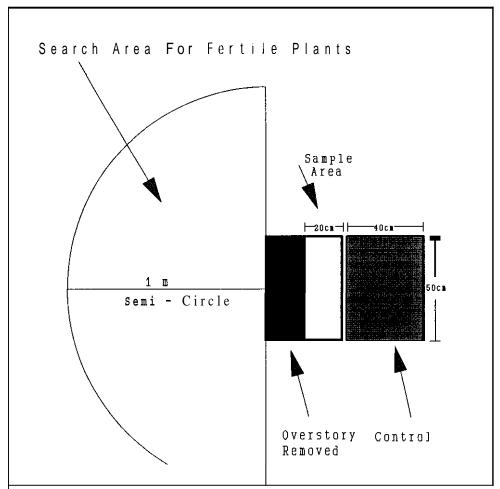
- Algal biomass sampling will take place at all areas and habitats. Α.
 - 1. Areas include PWS, CIK, and KAP
 - Habitats include sheltered rocky, exposed rocky, coarse textured, and estuarine.
- The algae crew will assist the invertebrate crew with laying out B. transects and sampling quadrats. See figure 2.
 - Transects TN.3 and TN.6 Quadrats 1, 2, 3, and 4
 - 2.
 - For detailed Drocedures of auadrat sampling see the 3. invertebrate SOP's.
 - 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

- Fucus density will be carried out for the following areas, habitats, transects, and quadrats:
 - PWS, CIK, KAP and sheltered rocky, exposed rocky, and coarse 1. textured. Do not. sample estuarine sites.
 - TN.3, TN.6 and quadrats 1, 2, 3, and 4. 2.

- Fucus densities will be determined by measuring a lm semi-circle from the left edge of the experimental quadrat. see figure 3. в.
- Search for fertile \underline{Fucus} in increasing radii outward from the center point of the \underline{semi} -circle. Ç.

 - A fertile <u>Fucus</u> plant **will** have well developed receptacles. Measure the distance from the semi-circle center point to the nearest fertile <u>Fucus</u> holdfast. 2.
- Data should be recorded on the algae percent cover and semi-circle D. data sheets provided.



igure 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).
 - 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
 - laboratory section of this study plan.

 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.

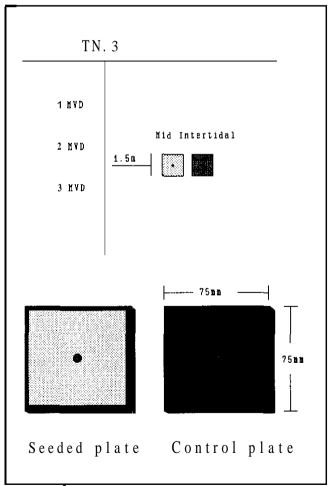


Figure 4

- The plates will be located 1.5-2.0 meters to the right of 1. the N.3 quadrats on all transects at the site.
- 2. A numbered taa will be bolted to the center of the plate attachment site.
- A pair of photos will be taken of the location after the tag 3. is in place.
- The plates will be placed side by side. The seeded plate 4. will be placed either on the right or left of the tao 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
- At each site an area of approximately 1 meter in radius will 6. be cleared of all adult Fucus plants.
- A second pair of photos will be taken of the site after the 7. plates have been bolted to the rock surface.
- To avoid desiccation of the plates, place wet, unfertile, 8. 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. 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.
 - In the summer the plates will be dislodged and preserved in 1. 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.

FUCUS EMBRYO GERMINATION

- 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.
- В. 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
- Once the samples are on the research vessel, the plants should not D. be exposed to formalin or formalin fumes under any circumstances.
 - Choose one receptacle from each collected plant according to 1. 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^2/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.
- Discard the receptacle. Let the bottles stand for 20-30 minutes to allow the cells to absorb the stain.
 After this time add 7.0 ml of 20% formalin to each bottle.
- 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.
 - 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
 - chain of custody forms.

 2. Pressed and dried specimens should be labeled with the following information:

Genus/species name
Location (site name 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 ,plasticbins 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 Fucus gardneri
2 Palmaria mollis

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.
 - 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.
 - 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 <u>Fucus</u> 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. lst, 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) (from custody forms) Sample #

- 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.
 - 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.
 Do not put more samples on the custody form than will fit 3. into the container in which you will eventually ship them. Fill out the custody form according to the instructions.
 - 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.
 - If they cannot be kept in the original box, you will have to 1. wrap each jar in bubble pack, cardboard, or newspaper.
 - Double check your custody form to make sure it corresponds with the inventory in the cooler. 2.
 - Sign the release on the custody form and on the comments 3. section indicate 'to whom the shipment is being sent via float plane. For example: "shipped via Cordova Air".
 - Put the custody form in the cooler and seal the cooler with signed and dated 'evidencetape.

 If the float plan does not make it in, open the cooler, and 5.
 - 6. 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 (for mussel sampling)
 - 2. 8 or 9 metal spoons covered with aluminum foil

 - 3. 9 I-Chem 402 jars and labels
 4. 3 I-Chem 1602 jars and labels (for 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:

- Rinse the used spoons thoroughly in clean seawater. а.
- Wash with soap and hot water h.
- Rinse with clean freshwater. If distilled water is Cavailable, 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.
- Wrap each spoon with solvent rinsed (see below) f. aluminum foil, the dull, solvent-rinsed side against the spoons.

2. Solvent-rinsed foil:

- Do not wash the foil with soap and water. Rinse the dull side twice with acetone.
- b.
- Rinse the dull side twice with hexane. C.
- т Format for entry in the Hydrocarbon Data Log Sheet

```
Site #
Date
Area
Random #
Transects selected
Sample numbers (from COC form)
      Ouadrat 1
      Ouadrat 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.
 - Take readings of temperature and salinity using the TS meter 2. 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.
 - It is permissible to use the outboard motor to maintain your 3. 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.
 - 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 $\pm /-$ 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.
 - Note on the log sheet the time the samples were taken and the weather and sea conditions. 2.

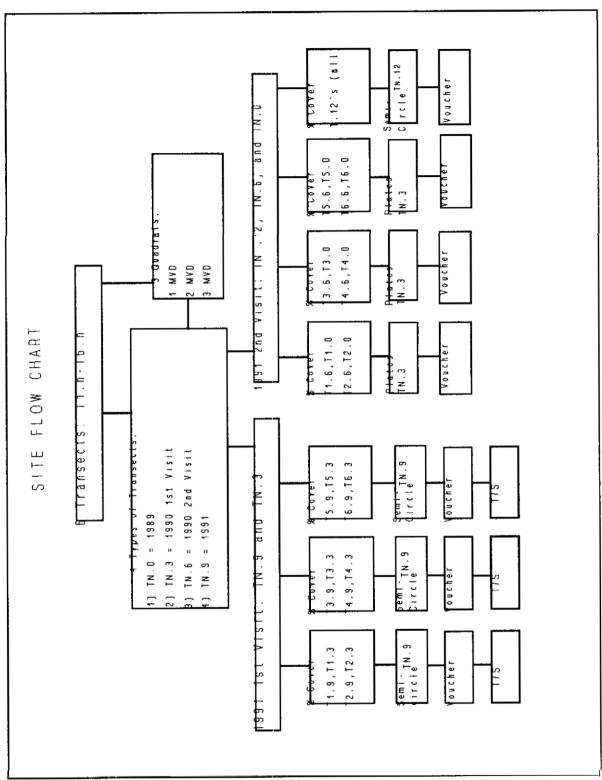
- C. TS readings can be taken at any time during the tidal cycle on the same day that the transect quadrats are done.
- D. Keep the TS cable coiled and in a plastic bucket in order to protect the coil and the probe.
 - 1. Mark the cable with colored electricians tape at the depths to be measured. Put 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.



Fligure 5: 1991 Site Flow Chart of Algal Field Crew Duties

ALGAL PERCENT COVER ESTIMATES

- 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. Person "B" will do 3.9, 4.9, 3.3, and 4.3 transects. Person "C" will do 5.9, 6.9, 5.3, and 6.3 transects. h.
- В. 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).
 - The small grid (43.75 cm x 16 cm) is used on both the 2. 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.

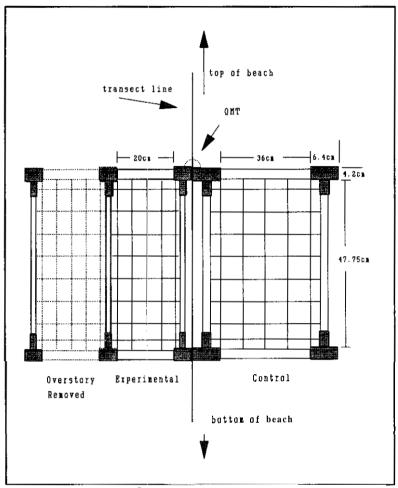


Figure 6: Percent Cover Quadrats and their Placement on the QMT.

- 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, outride corner of the PVC 'T' joint over the center of the screw which holds down the QMT. The first cross-hair point on the arid 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 <u>Fucus</u>: (greater than 2 cm long **or**, for field purposes, greater than 1 knuckle length) and,
 - 2. Small <u>Fucus</u>: (less than 2 cm long, again, for field <u>purposes</u>, 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. <u>NEAREST Fucus</u>:
 - 1. Measure the distance to the holdfast of the nearest <u>Fucus</u> plant. Record the distance in centimeters, rounded to the nearest whole centimeter.
 - 2. Measure the length of the <u>Fucus</u> plant from the base of the holdfast to the tip of the <u>longest</u> 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

When there are no Fucus plants within the 2 meter semi-4. circle enter:

999 Distance: 999 Length: 999 Reproductivity:

5. When the NEAREST Fucus has a reproductive condition of 3 or 4, then this NEAREST Fucus will also be the NEAREST REPRODUCTIVE Fucus.

swollen with conceptacles as light dots

- 4 = swollen with conceptacles as dark dots and/or mucilaginous.
- Enter "*" in the NEAREST REPRODUCTIVE Fucus column if the 6. 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:

swollen with conceptacles as light dots.

- 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.

Record the average reproductive condition using the procedure outlined in B-3 above.

When there are no Reproductive Fucus plants found in the 4.

5.

semi-circle enter:

999 Distance: 999 Length:

Reproductivity: 999

Enter "*" if the first NEAREST Fucus PLANT also had a reproductive index of 3 or 4. 6.

> 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 <u>Fucus</u> 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 <u>Fucus</u>.
 - 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, Forphyra, 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.
 - 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:
- 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.
 Each pressed algae that is dry should receive a proper label
- 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.
 - Record the data to t/- 0.5 degrees for temperature and +/- 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 4/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 +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.

- 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 D. 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.
- Ε. 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.
 - 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.
 - Soak the probe in fresh water, distilled or deionized water. Rinse the cable with fresh water. Dry the TS meter. Never store wet.
 - Inspect the end of the cable that plugs into the meter b. for damage ,and/orcorrosion. Keep this plug clean and shiny. Use fine steel wool to remove salt or other corrosion.
 - Check the batteries for the meter before going to the C. sites. Always keep an extra battery in the case with the meter.

INTERTIDAL ALGAL RECORDS VII.

- A Sites Visited Index should be kept on each cruise and include Α. the following information:
 - Numbering from 1 to that indicates the order in which sites were visited. For example, the first entry is the first site visited, the second entry is the second site 1. that indicates the order in which the visited, etc.

 - The site number, i.e. 601.
 The location of the site, i.e. Herring Bay. **3**.
 - 4. The date the site was visited and sampled.
 - 5. The oiling and habitat code for the site, i.e. "14".
- An Algal Site Cruise Log shall be kept to serve as a reference of В. all sites visited during the cruise. This is in addition to the Sites Visited Index. The algae site logbook shall have the following information:
 - Site #
 - 2. Site Name
 - 3. Oil/Habitat code
 - Date Visited
 - 5. Low tide level on the day the site was visited
 - 6. Salinity range
 - 7. Comments:
 - Geology of beach, aspect, drawings of outcroppings or sub-habitats, and type of substrate on site.
 - Major algae observed at the site, including notes on b. the zone of discovery, and if they are fertile.
 - Treatment of beach by Exxon. С.
 - Evidence of oil on the site and what state it is such d. as sheen, mousse, or tar.
 - Note what duties were accomplished on the site as well e. as those that were not. For example, all percent

covers were taken but we were not able to recover <u>Fucus</u> 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 Assessmen't 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 Ouad 1 in Transec't 3.9 was not sampled because there was a dead sea lion in the semi-circle".
 - 3. Keey track of the Temperature and Salinitv 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.

- Each set of transect samples will be placed in a heavy 4 plastic bag sealed with electrician's tape. Write the Area, Site #, Transect #, and Date of Collection on the outside of the baq.
- 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.
 - The lids of the white buckets will be sealed with a а. small piece of evidence tape.
 - The white bucket will have a fluorescent orange b. 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 followina information for CIK and PWS samples:

To: Mike Stekoll **JCFOS** 11120 Glacier Highway Juneau, Alaska 99801 Phone: 789-4579 ÇOC#:

For samples collected in KAP the following address should be C. 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.
- В. 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.

CHAIN OF CUSTODY:

- 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 Α. of samples. Each algae sample recorded on a field data sheet should be on the COC. Complete a COC as follows:
 - 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:
 - Project Region (i.e. PWS)
 Page # (i.e. 1 of 3) а.
 - b.
 - coc form #, assigned by area's chief crew leader. c.
 - Date Collected d.
 - Site # e.
 - Transect # f.
 - Ouadrat # g,
 - h. Field Taq # (= Sample Taq #)
 - Sample Type (i.e. quadrat algae, percent cover genus

- verification, etc.)
 Location (i.e. Herring Bay)
 Remarks: Use this space to note any discrepancies or special notes,
- 1. Samples Collected By (signed by algae crew leader for the area)
- Relinquished By (signed by algae crew leader for the m. area)
- The original COC form is put in the shipping container. Keep the carbon copy of the COC as sample inventories. 3.
- В. 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.
 - Use evidence tape as follows: 1.
 - a.
 - Cut a pieces of evidence tape about 8 cm long. Sign, with full signature, and date the piece of tape. Stick the tape to the sample container in such a way b.
 - c. 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 <u>Fucus gardneri</u> plant lengths will be measured. The following attributes <u>for each plant</u> 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 :plateswill be observed for the presence or absence of algae and invertebrates.

IV. Fucus Egg Viability Enumeration

<u>Fucus</u> 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 Prossed 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, alga 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 <u>Fucus</u> 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 \underline{Fucus} and not $\underline{filamentous}$.

Filamentous Wads: Filamentous wads are those species of algae that form unsortable 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 Bryozoans, 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 Of of Algae: 'This tag goes with the sorted invertebrates sent to Fairbanks.

Algae Pending Identification: This tag goes with the algae, excluding <u>Fucus</u>, 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 <u>sent to</u>

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 <u>Fucus</u>. If there was no <u>Fucus</u> 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.
- 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.
- 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 6 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

1 = Heavily Oiled

2 = Moderately Oiled

3 = Lightly Oiled

9 = No Oil or Control

Habitat Type

1 = Exposed Rocky

2 = Fine Sediment

3 = Coarse Textured

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 i:na 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 :notidentify 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 <u>Fucus</u> Data Sheet and Algae Data Sheet that the origin of the <u>sample</u> 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
- 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 "SPP" 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 = Predominate genus in a wad
- 3 = Secondary genus (genera) in a wad
- 4 = Split Weight
- 5 = Predominate weight of a genus in a split wad
- 6 = Secondary genus (genera) in a split wad
- 7 = Sub-sampled weight
- B = Predominate weight of genus in sub-sampled wad
- = Secondary genus (genera) in a sub-sampled wad
- 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 Pluranaia
- 21 = Procarp
- 22 = Pericarp and Tetrasporic
- 23 = Procarp and Tetraspbric
- 24 = Spermatangia and Tetrasporic

11. FUCUS ATTRIBUTES

- A. Use the green <u>Fucus</u> 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. Lengthswill 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 2.6 3.4 10.1	CM CM	5.0 3.0 3.5 10.5	cm		
9.1	cm	9.5	cm		
0.3	cm	0.5	cm		

- 3. **DAMG:** The general condition **of** the <u>Fucus</u> 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
 - $\mathbf{4}$ = 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.
 - $6 = \frac{\text{Kornma}}{\text{nnia sp.}}$
 - 7 = Enteromorpha sp.
 - $8 = \overline{\text{Monostroma sp.}}$
 - 9 = Blue-green* 10 = Ulothrix
 - $11 = \overline{\text{Bryozoan}}$ s (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 flocossa
 - $20 = \overline{\text{Neorhodome}}$ la sp.
 - 21 = Endocladia muricata
 - $22 = \overline{Barnacle}$
 - 23 = Halosaccion sp.
 - $24 = \overline{Sphacelaria sp.}$
 - 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 <u>Fucus</u> 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 <u>Fucus</u> 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: Tho 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% t Rivularia sp. 60% = 90% total epiphyte coverage) Use the following key to indicate percent cover of epiphytes on a plant:

0 = none

1 = 1% o 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 <u>Fucus</u> 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 <u>Fucus</u> 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= MichaelFairbanks 4 = Robin Jenne 15= Mie Huang 5 = Jeff Szarzi* 16= Ron Benkert 6 = Scott Pettit 17= Ellen Anderson 7 = Mandy Lindeberg 18= David Wetzel 19= Roger Price 8 = Pam Croue 9 = Shelly Spszanski 20= MichelleBourassa 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 <u>Fucus</u> collected in a quadrat.
- 10. Record the blotted wet weight for <u>Fucus</u> on the <u>Fucus</u> Data sheet. Before weighing the <u>Fucus</u>, <u>remove</u> 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 <u>Fucus</u> plants within the sample and record that number on the <u>Fucus</u> Data sheet.
- B. Algal Sub-Sampling is am 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.
- Divide the sample evenly amona 16 numbered (from 1 through 16) petri dishks. 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 'wetweight 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 (genera weights) from the two sorted :petri-dishes.
 - b. Compute the coefficient of variation of the mean weights for each genera using the following formula:

$$CV(\overline{X}) = \frac{S}{\overline{X}} \sqrt{\frac{1}{n} - \frac{1}{N}}$$

where \mathbf{n} is the number of subsamples actually sampled, \mathbf{N} is the total number of subsamples possible (16), and \mathbf{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 vadue 0.125 is the maximum value that ,shouldbe 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

- Collecting Seed Material A.
 - Between mid and low tide, look for inflated, fully ripe 1. receptacles. Signs of ripeness include abundant mucus, and dark, prominent conceptacles.
 - Collect receptacles by breaking them off from the flat 2. 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.

In the lab, wash all the receptacles thoroughly with cold 3. 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.

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.

EGG RELEASE B.

- Re-wash desiccated receptacles with cold tap water, and 1.
- again lay out on towels and blot dry. Put receptacles in 20 \boldsymbol{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. Sett:ling onto Plates

- Eggs will be released between 1 and 48 (or more) hours from 1. 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.
- Decide on a seeding density, i.e. how many eggs/cm⁻², 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⁻², but the optimum density, at least for the first six months of growth seems to be much higher, around 250 eggs/cm⁻²,

- 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. (Aslightly 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 sea water 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 <u>Fucus</u> 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.

 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.
- Examine the slide under KV light on the fluorescent 4. 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 100% (i.e the 10% objective with 10% 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.
- If less than 100 eggs/embryos have been enumerated from a 5. 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. Keep data sheets filed by area and site.
- 8.

В. Sample Fucus Fertility Data Sheet

- 1. Column headings:
 - а. Distance: (cm)
 - Date Collected: b.
 - Time In: C.
 - Time Out: d.
 - # Unfertilized Eąąs: е.
 - f. # Undivided Fertilized Eggs:
 - # Embryos > 1 Cell: g.
 - h. # Slides examined: (up to 4)
 - i. # Supplemental Slides Examined: (up to 2)
 - j, Date Examined:
 - Examined By: k.
 - 1. 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.
- Professionally mount dried specimens on full size herbarium sheets of paper.
- Make professional herbarium labels for each sheet containing the C. 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	01	control	/51~56
	- -		w/algae
T2.n	Q1	control	w/algae
T3.n	Q1	control	w/algae
T4.n	Q1	control	w/algae w/algae
T5.n	$\mathbf{Q}1$	control	w/algae
T6.n	Q1	control	w/algae
Tl.n	Q2	control	w/algae
T2.n	Q2	control	w/alqae
T3.n	Q2	control	w/algae 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

- 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.
 Tape the 40pt, grid to a wall and focus the quadrat image
- 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 t code 76=5pts = 40pts.